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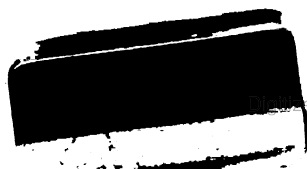
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ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS

FOR

THE YEAR 1885.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1886.

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1885

ANNUAL REPORT
OF THE
COMMISSIONER OF PATENTS
TO CONGRESS,
FOR THE YEAR ENDING DECEMBER 31, 1885.

Laid before the Senate by the President *pro tempore* February 15, 1886, ordered to lie on the table and be printed.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, January 30, 1886.

To the Senate and House of Representatives of the United States of America in Congress assembled:

Section 494 of the Revised Statutes makes it the duty of the Commissioner of Patents to "lay before Congress" an Annual Report, which shall exhibit, *first*, a detailed statement of all moneys received; *second*, a detailed statement of all expenditures for contingent and miscellaneous expenses; *third*, a list of all patents granted during the preceding year; *fourth*, a list of all patentees with their places of residence; *fifth*, a list of all patents which have been extended during the year; and, *lastly*, such other information of the condition of the Patent Office as may be useful to Congress or the public. Before proceeding with such detailed statements and lists, I desire, in pursuance of the last requirement above referred to, to call the attention of Congress to a few topics relating to the condition of this Office, which, in my judgment, materially affect its interest and prosperity.

ROOM.

My immediate predecessor in his last Annual Report called your attention to the fact of the "utter inadequacy of room and facilities for conducting the business of the Patent Office." The same difficulties which were then pointed out by him still exist. I need hardly advert to the fact that when this building was constructed it was not intended to be occupied by the several bureaus of the Department of the Interior. At the present time about one-half of the room in this building is occupied by the force of the Patent Office. It is not extravagant to assert that every room in the building could be advantageously used to-day by this Bureau. In the first place, each one of the twenty-eight examining divisions ought to have two separate rooms. The reason for this is manifest. The primary examiner is called upon frequently to consult with applicants and their counsel, and to listen to arguments more or less extended, which cannot be properly conducted in the same room where the work of examination is proceeding without seriously retarding such work.

By act of Congress, approved July 7, 1884, the Secretary of the Interior was authorized to rent buildings for the use of the Department. I respectfully suggest

that some provision should be made by the present Congress authorizing the rental of a building or buildings for the occupancy of one or more of the bureaus of the Department of the Interior, or some portions thereof, and thereby secure room which seems to be indispensable to the proper conduct of the business of this Office.

The same sanitary condition which was so graphically pointed out by my predecessor in his above-mentioned report still endangers the health of the employes of this office. I cannot refrain from urging upon Congress that it was never intended that this important Bureau, upon which so largely depend the material advancement and prosperity of the country, should be restricted in its facilities for doing business in order that a large sum might be added yearly to the net surplus in the Treasury of the United States standing to the credit of the Patent Office.

OFFICIAL GAZETTE.

On Tuesday of each week the patents are issued. On the same day this Office causes to be published an OFFICIAL GAZETTE, containing, among other things, a list of such patents, accompanied by a transcript of the claims and illustration of the invention, the names and residence of the patentees, a list of designs patented, trade-marks and labels registered, and decisions in patent causes. This publication has become an indispensable adjunct to this Office, and has taken the place of the old Patent Office Report.

On the 18th day of May, 1872, a statute was passed authorizing each Senator and Representative to designate eight public libraries to which the GAZETTE should be sent without charge, and fixing its subscription price at not less than five dollars per year. At that time it was less than one-half its present size and worth less than half its present value. Subsequent legislation leaves it at least very doubtful as to whether this law has not in effect been repealed. If it has been, then while the publication of the GAZETTE has been authorized in the several appropriation acts, its distribution has been for years past and is now without express authority of law. I have called attention to the probable repeal of this statute in order that Congress may take such action in relation to the distribution and price of the GAZETTE as, in their judgment, may seem proper.

In this connection I invite the attention of Congress

to the fact that there has never been any provision of law by which this Office has been able to secure the report of any court decision. I respectfully submit that some provision should be made by which each of the federal courts should be required to furnish immediately to the Patent Office a certified copy of any judgment, decree, decision, or opinion hereafter made or filed in any patent case. The publication in the GAZETTE of such decisions, in addition to the present contents, would, in my judgment, add materially to its value and circulation, and would tend much toward securing an intelligent and uniform practice in the Office.

PHOTOLITHOGRAPHY.

A very considerable portion of the amount of money which is appropriated year by year by Congress for the disbursements and expenses of the Patent Office is expended in securing a reproduction and illustration of each invention. At the present time the best known practical method of securing a comparatively cheap and absolutely accurate reproduction and illustration is by the art of photolithography. Formerly this result was accomplished by engraving, afterward by photography, and thereafter by the present system of photolithography, which has been built upon and added to little by little until the present high standard has been reached. Each succeeding year, as the law now stands, this work is let to contracting parties. For the purpose of preparing for this work of reproduction the original drawings are transmitted by the Office to the photolithographer. As soon as the proof-sheet is prepared by him it is returned to this Office, together with such original drawing, where a careful comparison is made by the employés of the Office, who are required to make personal inspection of such work. Imperfect proof-sheets must be returned and corrected *immediately*. It is of the utmost importance that this work should be done well and without delay. On Tuesday of each week every inventor in the country has the right to expect that the patent which is to issue to him will be signed and that the GAZETTE will be issued. In case a maximum issue is desired and prepared for by the Office, the contractor must see to it that there is no failure, and his force must be at all times adequate. For manifest reasons this work *must be done* in the city of Washington. It is not enough that the contracting parties should be responsible and solvent, but the work *must not* fail. While at the present time this important work is always faithfully, promptly, and efficiently performed, still under the present system in the hands of any contractor it is liable at any time in any year to fail. A recovery upon the contractor's bond of a sum of money for damages would be wholly inadequate. In my judgment, provision should be made by which the prompt and proper execution of this work should be absolutely secured, and I know of no way to accomplish such result unless the work be assumed and done by the Patent Office. At present the contractor is required to reproduce a large number of additional copies of each patent and illustration, which copies are kept on sale by this Office, and from which a substantial profit is derived. Should the Office assume and hereafter perform this work for itself, undoubtedly at the outset the expense would exceed somewhat the sum which is now paid to the contractor; but, on the other hand, absolute certainty of

the permanent, faithful, and proper execution of the work would be secured. I feel no doubt whatever that this important part of the daily and orderly business of this Bureau should become a part of it and be conducted and controlled entirely within this Office.

LABORATORY.

In connection with this subject I desire to call attention briefly to another imperative need of the Office. In view of the rapidly-advancing importance of all inventions pertaining to electricity, it seems absolutely indispensable that suitable provision should be made for the proper testing of apparatus relating to this branch of invention. For this purpose within the court of this building the necessary facilities could be provided. Several times since my incumbency of this Office I have felt compelled to permit, and have permitted, the examiner in charge of this class to leave his Office and go a long distance to witness experiments which could not, for want of room and apparatus, be attempted at home.

INCREASE OF FORCE.

There are no employés in the service of the Government who labor more faithfully and diligently than the examining force of this Office. It is well understood that the Patent Office has never been a burden upon the treasury of the Government. On the contrary, it pays a large excess year by year into the Treasury. The examining corps is wholly insufficient to perform the important duties devolving upon it. For manifest reasons, applications for inventions should be acted upon promptly, speedily, and intelligently. At the same time I cannot safely urge upon examiners the necessity of expedition. Nothing is easier than for an examiner to pass a case without critical examination. Almost daily I am constrained to urge upon the examiners the diligence and labor necessary to keep up as nearly as may be with the rapidly-accumulating work, and at the same time to see to it that no case passes their inspection without critical investigation. The Office needs an addition of two principal examiners, four first, eight second, eleven third, and fifteen fourth assistant examiners. The need of more help in this important work is imperative, and I urgently ask that it be furnished. I respectfully call attention to page 57 of the last printed report of the Secretary of the Interior upon this subject. This Office is also in need of a skilful officer to have charge of the reception of applications, and who might be called an "application clerk." Such clerk should be paid a salary of \$2,000. We also need an increase of two clerks of class three and one skilled stenographer at a salary of \$1,600 per annum. We also ought to have an increase of two clerks in class two. I think the good of the service further demands the employment of twenty-eight examiners' clerks at \$1,200 each, and of one messenger at \$840.

No provision of law is made for the employment of messengers in this Office. I respectfully ask that provision be made for the employment of twenty-five messenger-boys at a compensation of \$360 per year. Such boys would be very serviceable, and would relieve men receiving much larger salaries from all messenger and errand work, and, indeed, work which is frequently done by the examiners themselves.

INCREASE IN SALARIES.

Nearly forty years ago Congress established the salary of a primary examiner at \$2,500. (9 Statutes at Large,

231.) To-day his salary is one hundred dollars less. In 1855 the salaries of the assistant examiners were established as they at present exist. I regard these allowances as inadequate, and the practical result is that many of the most valuable examiners desert their employment every year to enter a more lucrative field. I respectfully recommend that the salary of the primary examiner be again restored to the annual compensation of \$2,500. I also call attention to the fact that the salary of the Assistant Commissioner, which at present is \$3,000 per year, is quite inadequate, and should be increased at least five hundred dollars. The general law also made provision that the salary of the Chief Clerk should be \$2,500. Only \$2,250 are appropriated yearly for this purpose. I recommend its re-establishment as it was originally. The law provides a salary of \$2,000 per annum for the Law Clerk of this Office. This compensation is too small, and I respectfully recommend that it be increased to \$2,500. The duties and responsibilities of the Financial Clerk of this Office are very great. His present compensation is \$2,000. In my judgment it should be increased five hundred dollars. I also recommend an increase of one hundred dollars per year in the salaries of the model attendants now receiving \$800.

I respectfully call attention to Appendix Q, page 271, of the "Estimates of the Appropriations, 1886-'87," where this subject is presented in a letter to the Secretary of the Interior.

With an ample force of reasonably well paid employes it would certainly follow that fewer errors would occur, much better work would result, important inventions would be acted upon and given to the country more speedily, and the usefulness as well as the revenues of the Office would be greatly enhanced, while many of the results which have brought more or less reproach upon the Patent Office could and would be avoided.

LEGISLATION.

The Revised Statutes, section 4885, in regard to the date which a patent shall bear, section 4887, in regard to its limitation, section 4898, relating to assignments of patents and the record thereof, and section 4936, relating to the reimbursement of persons who have through mistake paid money into the Treasury for fees accruing at this Office, I commend respectively to your careful consideration. Some or all of these sections should probably be carefully amended. Inasmuch, however, as I expect to be able to explain orally to the respective Committees on Patents my views upon these several statutes, I refrain from a further discussion of them here.

There is one other subject to which I wish to invite the especial attention of Congress. At the present time, in addition to his administrative duties, the Commissioner is called upon to hear all cases of appeal from the rejection of a patent by the Examiner-in-Chief, as well as to finally hear and determine all interference cases which may be appealed to him. Aside from the burden which this imposes upon the head of this Office there is a want of uniformity in the decisions which emanate from time to time from the respective Commissioners of Patents, which ought to be corrected. I know of no better way to correct this evil than the establishment of some tribunal, to consist of at least three judges, whose tenure of office shall be fixed, and to whom

all appeals shall lie. I have no doubt that the establishment of such a tribunal with such jurisdiction would not only make it possible for the Commissioner to conduct a more successful administration of his Office, but would secure to inventors and to the public a much more intelligent and uniform exposition of the law of patents and of the important questions which now of necessity must be determined so hastily.

CONCLUSION.

Thirty years ago there were but thirteen classes of inventions. To-day we have in this Office one hundred and seventy-seven distinct classes. In the year A. D. 1855, 4,435 applications for patents were received, while during the last calendar year this Office received 35,717 applications. The field of invention is widening so rapidly and the distinctions which are constantly required to be made have become so nice in many instances that the greatest care and skill are required to determine accurately what is new and what is old. Each year the history of invention becomes more elaborate and complicated, and no department of the Government more needs the services of men who are not only learned in the sciences, but who have become familiar by constant association month by month and year by year with the histories written and unwritten of invention and the arts. I take no risk in saying that the business as well as the importance of this Office are very little understood throughout the country generally. I feel entire confidence in saying that it needs but to be *understood* to be appreciated and cordially commended.

RECEIPTS.

Detailed statement of all moneys received for patents, for copies of records or drawings, or from any source whatever.

Applications:

Cash received.....	\$1,023,015 00
Cash refunded	3,600 00
Net cash	1,019,415 00
Certificates of deposit.....	54,675 00
Total cash and certificates.....	1,074,090 00

Copies:

Cash received.....	74,916 70
Cash refunded	2,123 15
Net cash	72,793 55
Certificates of deposit.....	623 80
Total cash and certificates.....	73,416 85

Recording assignments:

Cash received.....	25,650 25
Cash refunded	1,604 15
Net cash	24,055 10
Certificates of deposit.....	312 40
Total cash and certificates.....	24,367 50

Subscription to Official Gazette:

Cash received.....	13,150 45
Cash refunded	70 10
Net cash	13,074 35
Certificates of deposit.....	67 45
Total cash and certificates.....	13,141 80

Registration of labels:

Cash received.....	4,332 00
Cash refunded	1,326 00
Net cash	3,006 00
Certificates of deposit.....	30 00
Total cash and certificates.....	3,042 00

Sale of old iron.....	31 00
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Aggregates.

Cash received	\$1, 141, 104 40
Cash refunded	8, 729 40
Net cash	1, 132, 375 00
Certificates of deposit	55, 714 15
Total cash and certificates	1, 188, 089 15

EXPENDITURES.

Amount expended by this Office under the several appropriations from January 1, 1885, to December 31, 1885.

Salaries	\$583, 599 00
Official Gazette	44, 833 42
Photolithographing	85, 296 95
Scientific library	4, 582 19
Transportation of publications to foreign governments	188 80
Total	728, 450 36

*Approximate amount expended by the Department of the Interior on account of this Office from January 1, 1885, to December 31, 1885.**

Stationery	\$11, 416 38
Postage on foreign matter	831 00
Printing and binding	230, 863 93
Watch force	16, 690 00
Contingent expenses, (including furniture, hardware, carpets, ice, file-holders, desks, cases, washing towels, keeping of horse, &c., telephone, winding clocks, and sundries)	35, 137 18
Total	295, 928 49

Aggregate amount of expenditures

RECEIPTS OVER EXPENDITURES.

Total receipts	\$1, 188, 089 15
Total expenditures	1, 024, 378 85
Receipts over expenditures	163, 710 30

Statement of balance in the Treasury of the United States on account of the Patent fund.

Amount to the credit of the fund January 1, 1885	\$2, 781, 695 28
Amount of receipts during the year 1885	1, 188, 089 15
Total	3, 969, 734 43
Deduct expenditures for year 1885	1, 024, 378 85
Balance January 1, 1886	2, 945, 405 58

SUMMARY OF THE BUSINESS OF THE PATENT OFFICE.

Number of applications for patents for inventions	34, 697
Number of applications for patents for designs	862
Number of applications for reissues of patents	158

Total number of applications relating to patents

Number of caveats filed	2, 532
Number of applications for registration of trade-marks	1, 220
Number of applications for registration of labels	723
Number of disclaimers filed	13
Number of appeals on the merits	782

Total

Total number of applications requiring investigation and action

Number of patents issued, including designs	24, 104
Number of patents renewed	129
Number of trade-marks registered	1, 067
Number of labels registered	391

Total

Number of patents expired during the year

Number of patents withheld for non-payment of final fee

* A literal compliance with the provisions of the statute requiring "a detailed statement of all expenditures for contingent and miscellaneous expenses" is not possible, for the reason that the contingent fund for the several bureaus of this Department was consolidated by the act of March 3, 1883, and hence no part of that fund is disbursed by the Patent Office, and I am furnished only with an approximate sum, supposed to have been so expended on behalf of the Patent Office.

PATENTS ISSUED.

Patents issued to citizens of the United States, with the ratio of population to each patent granted.

States and Territories.	Patents and Designs.	One to every—
Alabama	85	14, 853
Arizona Territory	8	5, 035
Arkansas	77	10, 423
California	588	1, 470
Colorado	140	1, 388
Connecticut	1, 011	615
Dakota Territory	47	2, 876
Delaware	31	4, 729
District of Columbia	148	1, 900
Florida	25	10, 779
Georgia	144	10, 709
Idaho Territory	6	5, 435
Illinois	1, 907	1, 013
Indiana	777	2, 546
Indian Territory	3	.....
Iowa	457	3, 554
Kansas	230	4, 830
Kentucky	228	7, 231
Louisiana	76	12, 867
Maine	156	4, 159
Maryland	294	3, 929
Massachusetts	2, 243	794
Michigan	847	1, 932
Minnesota	226	3, 308
Mississippi	70	16, 185
Missouri	705	3, 075
Montana Territory	22	1, 779
Nebraska	129	3, 506
Nevada	10	6, 236
New Hampshire	145	2, 893
New Jersey	1, 115	1, 014
New Mexico Territory	12	9, 963
New York	4, 532	1, 121
North Carolina	81	17, 220
Ohio	1, 837	1, 740
Oregon	57	3, 066
Pennsylvania	2, 454	1, 745
Rhode Island	287	963
South Carolina	80	12, 444
Tennessee	159	10, 147
Texas	277	5, 746
Utah Territory	36	3, 998
Vermont	115	2, 889
Virginia	116	13, 039
Washington Territory	22	3, 414
West Virginia	70	8, 895
Wisconsin	469	2, 604
Wyoming Territory	3	6, 929
United States Army	2	.....
United States Navy	3	.....
Total	22, 555	.....

Patents issued to citizens of foreign countries.

Argentine Republic	1
Australia	1
Austria-Hungary	44
Belgium	24
Brunei	3
British Guiana	1
Canada	284
Cape of Good Hope	1
Central America	1
Chili	3
China	1
Corea	1
Cuba	4
Denmark	20
Egypt	1
England	138
France	549
Germany	298
Ireland	9
Italy	5
Mexico	9
Netherlands	10
Newfoundland	4
New South Wales, (Australia)	3
New Zealand	5
Norway	8
Peru	1
Russia	8
Scotland	24
South Australia	1
Spain	8
Sweden	18
Switzerland	44
United States of Columbia	1
Victoria, (Australia)	4
West Indies	2

Total

Comparative statement of the business of the Office from 1837 to 1885, inclusive.

Year.	Applica- tions.	Caravats filed.	Patents and re- issues.	Cash re- ceived.	Cash ex- pended.	Surplus.	Year.	Applica- tions.	Caravats filed.	Patents and re- issues.	Cash re- ceived.	Cash ex- pended.	Surplus.
1837.			435	\$29,289 08	\$33,506 98		1862.	5,038	824	3,532	215,754 99	182,810 39	32,944 60
1838.			520	42,123 54	37,402 10	\$4,721 44	1863.	6,014	787	4,184	195,593 29	189,414 14	6,179 15
1839.			435	37,260 00	34,543 51	2,716 49	1864.	6,032	1,063	5,025	240,919 98	229,868 00	11,051 98
1840.	735	228	473	38,056 51	39,020 67		1865.	10,664	1,937	6,610	348,791 84	274,199 34	74,592 50
1841.	847	312	495	40,413 01	52,666 87		1866.	15,269	2,723	9,458	495,665 38	361,724 28	133,941 10
1842.	761	391	517	36,505 08	31,241 48	5,264 20	1867.	21,276	3,597	13,026	646,581 92	639,263 32	7,318 60
1843.	819	315	510	35,315 81	30,776 96	4,538 85	1868.	30,420	3,705	13,410	681,565 86	628,679 77	52,886 09
1844.	1,045	380	495	42,509 26	36,244 73	6,264 53	1869.	19,371	3,624	13,997	693,145 81	486,430 78	206,715 03
1845.	1,246	452	504	51,076 14	39,395 65	11,680 49	1870.	19,171	3,273	13,333	669,456 76	557,149 19	112,307 57
1846.	1,272	448	638	50,964 16	46,158 71	4,105 45	1871.	19,472	3,366	13,056	678,716 46	560,595 08	118,121 38
1847.	1,531	553	569	63,111 19	41,878 35	21,232 84	1872.	18,246	3,090	13,613	690,796 39	665,591 36	25,205 03
1848.	1,628	607	652	67,578 69	58,905 84	8,670 85	1873.	20,414	3,248	12,864	703,191 77	691,178 98	12,012 79
1849.	1,955	585	1,068	80,752 98	77,716 44	3,036 54	1874.	21,602	3,181	13,599	738,278 17	679,288 41	58,989 76
1850.	2,193	602	993	86,927 05	80,100 95	6,816 10	1875.	21,638	3,094	14,837	743,453 36	721,657 71	21,795 65
1851.	2,258	760	872	95,738 61	86,016 93	9,721 68	1876.	21,425	2,697	15,595	757,987 65	652,542 60	105,445 05
1852.	2,639	996	1,019	112,656 34	95,916 91	16,739 43	1877.	20,308	2,809	14,187	732,349 85	613,152 62	119,197 23
1853.	2,673	901	961	121,527 45	132,869 83		1878.	20,260	2,755	13,444	725,375 55	593,089 89	132,285 66
1854.	3,328	868	1,844	163,789 94	167,146 32		1879.	20,059	2,620	13,213	703,931 47	529,938 97	174,992 50
1855.	4,435	906	2,012	216,459 35	179,540 33	36,919 02	1880.	23,042	2,490	13,947	749,685 32	538,865 17	210,820 15
1856.	4,960	1,024	2,506	192,588 02	199,931 02		1881.	26,059	2,406	16,584	853,665 89	605,173 28	248,492 61
1857.	4,771	1,010	2,886	196,132 01	211,529 09		1882.	31,629	2,553	19,267	1,009,219 45	683,867 67	325,351 78
1858.	5,364	934	3,685	203,716 16	193,193 74	10,522 42	1883.	35,577	2,741	22,383	1,146,240 00	675,234 86	471,005 14
1859.	6,225	1,097	4,504	245,942 15	210,278 41	35,663 74	1884.	35,600	2,582	20,413	1,075,798 80	970,579 76	105,219 04
1860.	7,653	1,084	4,778	256,359 59	252,890 80	3,531 79	1885.	35,717	2,552	24,233	1,188,098 15	1,024,378 85	163,719 30
1861.	4,643	700	3,329	137,354 44	221,491 91								

Statement showing the number of the first patent, design patent, and reissued patent, and the number of the first certificate of registration of a trade-mark and a label issued in each calendar year since July 28, 1836, when the present series of numbers of letters patent commenced, together with the total number of each issued during the year. The number of patents granted prior to the commencement of this series of numbering (July 28, 1836) was 9,957.

Year.	Number of first patent and certificate issued in each calendar year.					Number of patents and certificates of registration issued during each calendar year.						
	Patents.	Designs.	Reissues.	Trade- marks.	Labels.	Patents.	Designs.	Reissues.	Total patents.	Trade- marks.	Labels.	Total cer- tificates.
1836 July 28	1					109						
1837.	110					436						
1838.	546		1			515		6				
1839.	1,061		7			404		13				
1840.	1,465		20			458		10				
1841.	1,923		30			490		6				
1842.	2,413		36			488		13				
1843.	2,901	1	49			494	14	11	510			
1844.	3,395	15	60			477	12	7	495			
1845.	3,879	27	67			470	17	11	504			
1846.	4,348	44	78			566	50	13	638			
1847.	4,914	103	91			495	60	14	569			
1848.	5,409	163	105			583	46	23	652			
1849.	5,992	209	128			989	49	30	1,068			
1850.	6,981	258	158			884	83	26	993			
1851.	7,865	341	184			757	90	25	872			
1852.	8,692	431	209			890	109	30	1,019			
1853.	9,512	540	229			846	86	29	961			
1854.	10,358	626	258			1,750	57	28	1,844			
1855.	12,117	623	286			1,691	70	51	2,012			
1856.	14,006	753	337			2,316	107	83	2,506			
1857.	16,394	860	430			2,686	113	97	2,896			
1858.	19,010	973	517			3,467	102	136	3,695			
1859.	22,477	1,075	643			4,165	108	231	4,504			
1860.	26,642	1,183	874			4,363	183	239	4,778			
1861.	31,005	1,366	1,106			3,040	142	147	3,329			
1862.	34,045	1,506	1,253			3,921	195	116	4,332			
1863.	37,266	1,703	1,369			3,781	176	227	4,184			
1864.	41,047	1,870	1,596			4,638	130	248	5,025			
1865.	45,685	2,018	1,844			6,009	221	286	6,610			
1866.	51,784	2,239	2,140			8,674	294	280	9,458			
1867.	60,658	2,533	2,430			12,301	325	400	13,026			
1868.	72,950	2,858	2,530			12,544	446	430	13,410			
1869.	85,503	3,304	3,250			12,957	506	534	13,997			
1870.	98,480	3,810	3,784			12,157	737	439	13,333			121
1871.	110,617	4,547	4,223	122		11,687	905	464	13,056	121		486
1872.	122,304	5,442	4,687	608		12,200	884	529	13,613	486		491
1873.	134,504	6,336	5,216	1,099		11,616	747	501	12,864	491		492
1874.	146,190	7,083	5,717	1,591	1	12,320	886	483	13,599	557		791
1875.	158,350	7,969	6,200	2,150	223	13,201	915	631	14,837	1,138		1,370
1876.	171,641	8,884	6,831	3,228	465	14,172	802	621	15,595	959		1,431
1877.	185,813	9,686	7,452	4,247	937	12,980	699	568	14,187	1,216		1,608
1878.	198,733	10,385	8,920	5,463	1,329	12,345	590	509	13,444	1,455		1,947
1879.	211,078	10,975	8,529	6,918	1,821	12,133	592	488	13,213	872		1,227
1880.	223,211	11,567	9,017	7,790	2,176	12,926	515	506	13,947	349		2,552
1881.	236,137	12,089	9,523	8,139	2,379	15,548	565	471	16,584	836		1,038
1882.	251,685	12,647	9,994	8,973	2,581	18,135	661	271	19,267	947		1,251
1883.	269,890	13,508	10,265	9,920	2,885	21,196	1,090	167	22,383	902		1,806
1884.	291,016	14,528	10,432	10,822	3,791	19,147	1,150	116	20,413	1,021		1,534
1885.	310,163	15,678	10,548	11,843	4,304	23,331	773	129	24,233	1,067		1,458
1886.	333,494	16,451	10,677	12,910	4,695							

I confidently invoke the careful consideration of Congress to the various matters which are submitted in this imperfect report.

All of which is respectfully submitted.

Very respectfully, your obedient servant,

M. V. MONTGOMERY, Commissioner.

ALPHABETICAL LIST

OF

PATENTEEES FOR THE YEAR 1885.

[Patentees of Designs, Trade-Marks, and Labels, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Specification.	Drawing.	Volume.	Page.
Aaron, Charles H., Nogales, Ariz. Ter. Precipitating nickel and cobalt from solutions containing the same.	330,454	Nov. 17	1389	.....	33	785
Aasen, Siver J., Republican, Dak. Ter. Fanning-mill sieve.	323,086	July 28	2303	608	32	442
Abadie, Egbert, Paris, France. Manufacture of reticulated paper for cigarettes.	314,639	Mar. 31	9167	575	30	1231
Abbercrombie, Henry M., Kelly's Creek, Ala. Cultivator.	330,864	Nov. 24	1913	519	33	893
Abbett, Leon. (See White, Lewis B., assignor.)						
Abbot, Isaac A., Denver, Colo. Attachment for oven-doors.	318,155	May 19	1644	439	31	824
Abbot Spinner Company. (See Abbot, Theodore T., assignor.)						
Abbot Spinner Company. (See Russell, Isaac H., assignor.)						
Abbot, Theodore T., Lunenburg, assignor to Abbot Spinner Company, Boston, Mass. Machinery for spinning cotton yarn.	317,607	May 12	915	{ 234 235 }	31	697
Abbot, Theodore T., Lunenburg, assignor to Abbot Spinner Company, Boston, Mass. Manufacturing cotton yarn.	317,608	May 12	917	235	31	697
Abbott, Arthur A., Chicago, Ill. Two-wheeled vehicle.	324,784	Aug. 25	1901	523	32	899
Abbott, Arthur A., Chicago, Ill. Side-bar vehicle.	333,271	Dec. 29	2922	764	33	1547
Abbott, Benjamin R., Bloomington, Ill. Grader or road-scraper.	321,269	June 30	3131	834	31	1651
Abbott, Fred. N., Lawrence, Mass. Presser-clamp.	330,363	Nov. 17	1269	337	33	763
Abbott, George W., and G. S. Forrest, Concord, N. H. Countersink.	327,641	Oct. 6	129	46	33	34
Abbott, Isaac M., Philadelphia, Pa. Siphon stop-cock and bottle-stopper.	312,600	Feb. 24	1567	429	30	665
Abbott, J. Varnum, and C. E. Luce, Dedham, Mass. Leather cutting and piling mechanism.	325,037	Aug. 25	2229	{ 611 612 }	32	960
Abbott, John, Philadelphia, Pa. Carding-machine.	316,215	Apr. 21	1709	448	31	323
Abbott, John D. (See Bartholomew and Abbott.)						
Abbott, John E. (See Dillingham, Fred B., assignor.)						
Abbott, Levi, assignor of one-half to G. C. Barney, Boston, Mass. Valve or cock for liquid-receptacles.	330,766	Nov. 17	1785	480	33	892
Abbott, Nathaniel B. (See Carpenter, Oramill C., assignor.)						
Abbott, Paschal J., Dexter, Me. Flooring-clamp.	317,959	May 19	1389	373	31	796
Abbott, Stearns K., Warrerville, Mass. Adjustable mirror.	314,771	Mar. 31	2361	625	30	1267
Abbott, Thomas A., assignor to National Plaster Company, Lowell, Mass. Plaster.	315,691	Apr. 14	966	.....	31	185
Abbott, Warren N., et al. (See Green, Albert, assignor.)						
Abbott, William. (See Ritchie, Joshua R., assignor.)						
A B C Fence Company of New York. (See Adams, George Q., assignor.)						
Abecasis, Solomon, Boston, Mass. Fastening device for shoes, gloves, &c.	318,407	May 19	1981	533	31	904
Abel, August, Chicago, Ill. Combined baby carriage and cradle.	333,189	Dec. 29	2802	723	33	1524
Abell, Asahel, Hamilton, Ontario, Canada. Sewing-machine.	319,435	June 9	631	171	31	1175
Abell, Clara, Geddes, N. Y. Hat and bonnet fastener.	332,031	Dec. 8	1167	305	33	1215
Abell, John, Woodbridge, Ontario, Canada. Straw-burning furnace.	316,216	Apr. 21	1709	448	31	323
Abell, Joshua L., Chicago, Ill. Strainer for liquids.	321,877	July 7	647	168	32	117
Abendroth, Frank A., New York, N. Y. Oil-stove.	325,471	Sept. 1	339	89	32	1080
Abercrombie, Alexander V., Bridgeport, Conn. Bobbin-winder.	332,771	Dec. 22	2220	585	33	1415
Abercrombie, Thomas H., Tumbling Shoals, S. C. Churn-dasher.	324,511	Aug. 18	1511	416	32	818
Aberlin, Henry W., Baywater, county of Middlesex, England. Combined scarf ring, band, and collar-stud.	333,272	Dec. 29	2922	765	32	1547
Abernethy, William J., Minneapolis, Minn. Signaling attachment for change-boxes.	323,384	Aug. 4	1	1	32	523
Abney, William W. (See Cabell and Abney.)						
Abraham, Robert. (See Gribble and Abraham.)						
Abrahamson, Abraham, Chicago, Ill. Milk or coffee flask.	325,806	Sept. 8	798	201	32	1169
Abramowsky, Julius. (See Walsh and Abramowsky.)						
Abrams, Gustav, and N. Nilson, Dassel, Minn. Valve-gear for steam-engines.	316,433	Apr. 28	2015	529	31	323
Abrams, Gustav, and N. Nilson, Dassel, Minn. Valve-gear for engines.	317,071	May 5	184	46	31	556
Abrams, Gustav, and N. Nilson, Dassel, Minn. Valve-gear.	329,525	Nov. 3	141	36	33	531
Abrams, Lorenzo D., Tuscola, Ill. Wind-wheel.	326,086	Sept. 15	1155	295	32	1243
Abrams, William B., Wells, N. Y. Fastening for bedstead-slats.	320,741	June 23	2441	647	31	1518
Acers, Nelson F., Iola, Kans. Window-shade attachment.	313,041	Mar. 3	1	1	30	779
Achenbach, Philip P., Camden, N. J. Folding chair.	332,978	Dec. 29	2922	765	33	1547
Achenbach, William F., Reading, Pa. Plane.	310,163	Jan. 6	1	1	30	3
Acheson, James E., Ainsworth, Iowa. Portable building.	319,436	June 9	632	171	31	1175
Achter, William F. (See Kleine and Achter.)						
Acker, Charles W., Watertown, N. Y. Shifting top for hammock-supports.	316,513	Apr. 28	2119	558	31	402
Acker, Charles W., Watertown, N. Y. Can-opener.	333,190	Dec. 29	2903	734	33	1524
Acker, Conrad, and G. Miehler, St. Louis, Mo. Rotary brush.	327,851	Oct. 6	447	116	33	78
Ackerman, Abraham, New York, N. Y. Sample-envelope.	315,692	Apr. 14	967	258	31	185
Ackerman, Frederick P. (See Boemann, Nicolas, assignor.)						
Ackerman, John. (See Wanamaker, Daniel S., assignor.)						
Ackermann, George, assignor of five-sixths to A. Fischer, A. Baum, G. Bals, C. F. Loudon, Cincinnati, Ohio, and J. Wagner, Dayton, Ky. Can-soldering machine.	315,877	Apr. 14	1245	{ 325 326 }	31	232

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Ackermann, John. (See Fabing and Ackermann.)						
Ackerson, Charles H., San Francisco, Cal. Support for centers for masonry arches	317,072	May 5	186	47	31	557
Acklen, Aron A., and U. C. Pipes, Arcadia, La. Hand-truck	319,046	June 2	137	37	31	1073
Ackley, Griffin S., Towanda, Pa. Adjustable bale-tie	324,348	Aug. 18	1291	351	32	779
Acme Hub Company. (See Maris, Jared, assignor.)						
Acme Mining Machine Company. (See Hamilton, Walter, assignor.)						
Acme Paper Box Company. (See Merrill, Rufus S., assignor.)						
Acme Paper Box Company. (See Smith, Desbrow M., assignor.)						
Actien Gesellschaft zur Einführung Technischer Neuheiten. (See Zimmer, Conrad, assignor.)						
Adair, Addison A., et al. (See Byrkit, Edwin M., assignor.)						
Adair, Richard H., Stovall, assignor of one-half to L. R. Fawkes, Aledo, Tex. Plow	320,611	June 23	2281	603	31	1487
Adam, Alexander C., and D. Stewart, Glasgow, county of Lanark, Scotland Apparatus for scouring and washing fabrics, &c.	322,271	Oct. 13	985	256	33	186
Adam, William, Kidderminster, county of Worcester, England Loom for weaving chenille or fur pile fabrics.	324,267	Aug. 11	1201	326	32	754
Adam, William J., Joliet, Ill. Wire fence	326,087	Sept. 15	1156	295	32	1243
Adami, Conrad, Boston, assignor to J. W. Tufts, Medford, Mass. Apparatus for dispensing soda-water.	316,594	Apr. 28	2219	524	31	422
Adams, Albert A., and W. Lee, McBrides, Mich. Packing for steam-joints	311,707	Feb. 3	323	89	30	410
Adams, Albert L., Cedar Rapids, Iowa. Hammock	323,377	Dec. 29	3057	797	33	1570
Adams, Benjamin B., Roswell, N. Mex. Ter. Fence-post	314,303	Mar. 24	1716	456	30	1122
Adams, Benjamin B., Roswell, N. Mex. Ter. Roofing	326,374	Sept. 15	1550	402	32	1316
Adams, Charles, Allegheny City, Pa. Furnace for the manufacture of iron direct from the ore.	310,164	Jan. 6	2	1	30	3
Adams, Charles B., Quincy, Ill. Tobacco-press	324,631	Aug. 18	1675	463	32	849
Adams, Charles D., Geneva, Ga. Two-wheeled vehicle	317,271	May 5	465	117	31	608
Adams, Charles D., Geneva, Ga. Flow	323,097	July 28	2304	602	32	442
Adams, Charles E. (See Watson and Adams.)						
Adams, Daniel, Philadelphia, Pa. Table for galling-machines.	322,237	July 14	1122	292	32	214
Adams, David O., Columbus, Ind. Camera-shutter	327,980	Oct. 13	619	163	33	119
Adams, Edwin. (See Eppler, Andrew, Jr., assignor.)						
Adams, Edwin F. (See Terry, Andrew J., assignor.)						
Adams Electric Mast Company. (See Adams, Frederick U., assignor.)						
Adams, Frederick U., assignor to Adams Electric Mast Company, Chicago, Ill. Electric-lamp support	312,759	Feb. 24	1812	498	30	708
Adams, George, Sherburne, Minn. Cockle-seed separator	318,677	May 26	2340	625	31	978
Adams, George, Sherburne, Minn. Flaxseed-separator	320,831	June 23	2350	675	31	1539
Adams, George B., assignor of one-half to C. Campbell, Newark, N. J. Purse, bag, &c.	325,807	Sept. 8	800	201	32	1169
Adams, George M., Franklinton, Ky. Car-coupling	321,935	July 14	729	191	32	141
Adams, George Q., Quincy, Ill., assignor to A. B. C. Fence Company of New York. Fence-making machine	319,063	Feb. 10	812	222	30	507
Adams, George W., Boston, Mass. Shingling-bracket	310,631	Jan. 13	604	166	30	121
Adams, Gilbert L., Altoona, Pa., assignor of one-third to Alexander & Herr. Car-brake	326,101	Sept. 15	1299	336	32	1268
Adams, H. Raymond, Marseilles, Ill. Regulator for pumping-windmills	331,363	Dec. 1	140	38	33	1024
Adams, H. Raymond, Marseilles, Ill. Windmill-regulator	331,364	Dec. 1	151	39	33	1025
Adams, Henry A., et al. (See Shufelt, Calvin P., assignor.)						
Adams, J. Phelps, et al. (See Shufelt, Calvin P., assignor.)						
Adams, James. (See Wheeler, George M., assignor.)						
Adams, James W., Chicago, Ill. Bolt-threading machine	318,678	May 26	2341	625	31	978
Adams, Jesse, Guernsey, Ark. Bed-rail brace	326,618	Sept. 22	1863	488	32	1380
Adams, John, Piqua, Ohio. Toe-calk for horseshoes	325,145	Aug. 25	2363	651	32	925
Adams, John, Montrose, Colo. Gravat-fastener	327,216	Sept. 29	2703	703	32	1538
Adams, John B. (See Smith and Adams.)						
Adams, John C., et al. (See Martin, Thomas F., assignor.)						
Adams, John F., Irvington, N. Y. Spool or ball holder	316,595	Apr. 28	2221	584	31	422
Adams, John K. (See Shaffer, Adams, and Hunter.)						
Adams, John Q., Alamo, Mich. Windmill	323,485	Aug. 4	129	37	32	546
Adams, John Q., Marseilles, Ill. Windmill	311,937	Feb. 10	637	175	30	475
Adams, John Q., Marseilles, Ill. Cultivator	331,365	Dec. 1	153	39	33	1026
Adams, John Q., and O. R., Marseilles, Ill. Corn-sheller	313,042	Mar. 3	2	1	30	779
Adams, John S., Elgin, Ill., assignor to Detroit Iron Tower Company, Detroit, Mich. Skeleton tower	311,165	Jan. 27	1325	365	30	265
Adams, John S., Elgin, Ill., assignor to Detroit Iron Tower Company, Detroit, Mich. Electric-light tower	311,166	Jan. 27	1328	365	30	265
Adams, John S., Elgin, Ill., assignor to Detroit Iron Tower Company, Detroit, Mich. Iron grating	311,167	Jan. 27	1331	367	30	266
Adams, Joseph D., Marshall, Ind. Road-grading machine	310,165	Jan. 6	3	1, 2	30	3
Adams, Joseph D., Marshall, Ind. Road-grading machine. (Reissue)	10,666	Dec. 1	757	191	33	1133
Adams Manufacturing Company. (See Stone, Henry D., assignor.)						
Adams Manufacturing Company. (See Stone and Ambler, assignors.)						
Adams, Nelson B. (See Orris and Adams.)						
Adams, Oliver R. (See Adams, John Q. and O. R.)						
Adams, Peter, Jr. (See Shepard and Adams.)						
Adams, Robert, 17 Blackman Street Borough, county of Surrey, England. Window	310,355	Jan. 6	264	72	30	50
Adams, Thomas C., Brooklyn, N. Y. Needle	320,460	June 16	2065	542	31	1438
Adams, Thomas C., assignor to himself and H. Holsten, Brooklyn, N. Y. Tin can	324,512	Aug. 18	1512	416	32	818
Adams, Thomas F., New York, N. Y. Street-sign	331,019	Nov. 24	2108	570	33	930
Adams & Westlake Manufacturing Company. (See Campbell, William N., assignor.)						
Adams & Westlake Manufacturing Company. (See Clark and Briggs, assignors.)						
Adams & Westlake Manufacturing Company. (See Dittman, Gustav H., assignor.)						
Adams, William L., and W. R. Polk, assignors to Baltimore Lime Paint Company, Baltimore, Md. Lime-paint	310,550	Jan. 13	503		30	103
Adams, William P., Kennebunk, Me. Trunk-lock	320,036	June 16	1461	364	31	1330
Adams, William P., Brooklyn, N. Y. Non-conducting fabric	332,371	Dec. 15	1651	433	33	1307
Adams, William W. (See Smith and Adams.)						
Adamson, Edward, Pawtucket, R. I. Reed for looms	315,590	Apr. 14	860	226	31	159
Adamson, J. Arthur, Philadelphia, Pa. Suspender-end	318,339	May 19	1891	509	31	888
Adamson, William W., et al. (See Teal, Henry W., assignor.)						
Adcock, Edmund, assignor to E. B. and G. E. Preston, Chicago, Ill. Fire extension-ladder	319,047	June 2	138	37	31	1073
Addis, John W. (See Lewis, Wallace J., assignor.)						
Addy, Charles J., Malden, assignor to Tapley Machine Company, Boston, Mass. Burnishing-machine	318,340	May 19	1891	509	31	888

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Addy, Charles J., Malden, assignor to Tapley Machine Company, Boston, Mass. Heel-burnishing machine	328,371	Oct. 13	1125	290	33	913
Ades & Co., Fred. (See Smith, Benjamin C., assignor.)						
Aden, Habbe L., Jr., Rising City, Nebr. Well-pipe-closing clamp	323,098	July 28	2305	009	32	442
Adgate, Joseph J., assignor to Adgate Rotary Loom Company, New York, N. Y. Cam-cylinder for knitting-machines	332,373	Dec. 15	1653	{ 433 434 }	{ 33 33 }	{ 1307 1307 }
Adgate, Joseph J., assignor to Adgate Rotary Loom Company, New York, N. Y. Weft-thread knitting-machine	332,374	Dec. 15	1654	434	33	1308
Adgate, Joseph J., and S. P. Kittle, assignors to Adgate Rotary Loom Company, New York, N. Y. Knitting-machine needle	332,372	Dec. 15	1652	433	33	1307
Adgate Rotary Loom Company. (See Adgate, Joseph J., assignor.)						
Adgate Rotary Loom Company. (See Adgate and Kittle, assignors.)						
Adjustable Elbow and Damper Company. (See Cram, Alonso W., assignor.)						
Adkins, Sebastian M., Cincinnati, Ohio. Key-buckle	310,632	Jan. 13	604	166	30	121
Adkins, Thomas S., Fredonia, Kans. Hay-stacker	317,697	May 12	1031	268	31	719
Adkins, William H. (See Case, McArthur, and Adkins.)						
Adkins, William W. (See Swann and Adkins.)						
Adlam, Samuel, Boston, Mass. Sheet-metal screw cap or cover	332,772	Dec. 22	2221	525	33	1415
Adler, Abraham S., Baltimore, Md. Shoe-maker's measure	322,238	July 14	1123	222	32	214
Adler, Henry, Pittsburg, Pa. Coal-vase	311,864	Feb. 10	569	145	30	455
Adler, I. Richard. (See Cassidy, Patrick, assignor.)						
Adler, Jacob, Mülheim, Prussia, Germany. Watch-protector	321,471	May 12	90	24	32	18
Adair, Abram, Traverse City, Mich. Insertible saw-tooth	317,698	Aug. 11	1033	268	31	719
Adt, John, New Haven, Conn. Cotter-pin	324,906	Sept. 29	1101	297	32	735
Adt, John, New Haven, Conn. Machine for making staples	327,217	July 28	9704	{ 703 704 }	{ 39 39 }	{ 1539 1539 }
Adt, John, New Haven, Conn. Staple-machine	330,364	Nov. 17	1270	337	33	763
Adt, John, New Haven, Conn. Making cotter-pins	330,960	Nov. 17	1638	440	33	835
Adt, John, New Haven, Conn. Machine for making cotter-pins	330,961	Nov. 17	1639	{ 440 441 }	{ 33 33 }	{ 835 835 }
Adt, John B., Baltimore, Md. Tobacco-drier	323,251	July 7	2512	667	32	481
Adt, John B., Baltimore, Md. Mash-machine	327,751	Oct. 6	324	83	33	57
Aeby, Léon, Madretsch, near Bienne, Switzerland. Stem-winding watch	329,611	Nov. 3	258	66, 67	33	554
Aenis, John, Cleveland, Ohio. Folding grindstone-frame	314,986	Apr. 7	1	1	31	3
Ætna Glass and Manufacturing Company. (See Wood, Joseph M., assignor.)						
Ætna Stopper Company. (See Thatcher, Frederick B., assignor.)						
Agee, Alva J., and A. Fraser, Cheshire, Ohio. Potato-planter	316,317	Apr. 21	1711	449	31	324
Agee, Francis M., assignor of one-half to C. W. A. Lynch, Vinita, Indian Ter. Stock-feeder	316,859	Apr. 28	2607	680	31	492
Agin, Alonso W., Latrobe, Ohio. Rail-joint	317,272	May 5	465	117	31	608
Agnew, Franklin H., and R. R. Hice, Beaver, Pa. Automatic car-brake	328,372	Oct. 13	1126	{ 290 291 }	{ 33 33 }	{ 913 913 }
Agnew, George. (See Joalin, Henry W., assignor.)						
Agnew, James, Allegheny, and W. Agnew, Pittsburg, Pa. Pipe-coupling	325,895	Sept. 8	898	226	32	1188
Agnew Shafting Company. (See Alderdice, Winslow, assignor.)						
Agnew, William. (See Agnew, James and W.)						
Agnew, William C., assignor of one-half to W. F. Holland, Creston, Ill. Combined horse-collar and hame	331,750	Dec. 8	765	193	33	1143
Ahearn, Thomas, Ottawa, Ontario, Canada. Electric time-detector	329,474	Nov. 10	617	157	33	627
Ahlberg, Olof M., Pullman, Ill. Swing	327,051	Sept. 29	9481	648	32	1498
Ahlens, George F., et al. (See Kuhn, Leo S., assignor.)						
Ahlum, Alvin F., Newark, N. J. Oil-can	321,074	June 30	2890	768	31	1607
Ahlund, Peter, West Unity, Ohio. Ditching-machine	322,771	July 21	1828	484	32	348
Ahrens, Christopher, Cincinnati, Ohio. Running-gear for vehicles	324,207	Aug. 11	1002	297	32	735
Aigner, Hermann, Vienna, Austria-Hungary. Artificial fuel	314,097	Mar. 17	1441	377	30	1062
Aiken, Henry, Pittsburg, Pa. Blade for shears	331,934	Dec. 8	1025	266	33	1191
Aiken, Walter, Franklin, N. H. Knitting-machine	324,795	Aug. 25	1902	{ 523 524 }	{ 39 39 }	{ 890 890 }
Aiken, Walter, Franklin, N. H. Transferring device for knitting machines	324,797	Aug. 25	1910	525	32	900
Aiken, Walter, Franklin Falls, N. H. Knitting-machine	324,796	Aug. 25	1907	525	32	900
Aikin, Elias M., Dawson, Dak. Ter. Corn-harvesting machine	319,163	June 2	279	73	31	1099
Aikin, William, Louisville, Ky. Sand-molding machine	318,341	May 19	1893	{ 510 511 }	{ 31 31 }	{ 888 888 }
Aikman, James, Glasgow, county of Lanark, Scotland. Tobacco-pipe	332,858	Dec. 22	2335	617	33	1435
Aikman, Peter A., Windsor, Ontario, Canada, assignor of one-fourth to W. R. Merwin, J. Booth, and W. Robinson, Detroit, Mich. Car-coupling	331,467	Dec. 1	307	82	33	1052
Ainslie, Archibald K. M. (See Ainslie, James, Jr., and A. K. M.)						
Ainslie, James, Jr., Brooklyn, N. Y. Folding spring-bed bottoms	320,322	June 16	1878	493	31	1403
Ainslie, James, Jr., Brooklyn, N. Y. Folding bed-bottom	326,375	Sept. 15	1550	402	32	1316
Ainslie, James, Jr., and A. K. M., Brooklyn, N. Y. Spring bed-bottom	323,471	Dec. 15	1779	466	33	1399
Aitchison, Peter and R. P., Alexandria, Va. Box for bottled liquids	323,486	Aug. 4	130	37	32	546
Aitchison, Robert P. (See Aitchison, Peter and R. P.)						
Aitchison, James M. (See Platt and Aitchison.)						
Aitken, Robert, Brampton, Ontario, Canada. Band-cutter and feeder for thrashing-machines	322,886	July 28	9003	529	32	387
Ajax Forge Company. (See Aikins, Charles, assignor.)						
Ajax Forge Company. (See Griffin and Aikins, assignors.)						
Akarman, John N., Somerville, Mass. Pole-coupler for horse-cars	311,168	Jan. 27	1332	367	30	286
Akerly, Charles A., and D. T. Easton, Owego, N. Y. Car-coupling	316,103	Apr. 21	1564	407	31	296
Akeson, Magnus. (See Sandberg and Akeson.)						
Akin, Leonidas T., Fort Worth, Tex. Farm-gate	321,413	July 7	1	1	32	3
Akin, William, New York, N. Y. Railway-train indicator	331,859	Dec. 8	911	235	33	1169
Akin, William, New York, N. Y. Programme-clock	332,694	Dec. 22	2119	559	33	1395
Akins, George W., Nashville, Tenn. Wheel-pow	315,211	Apr. 7	334	81	31	60
Akron Iron Company. (See Alderdice, Winslow, assignor.)						
Alabaster, Henry, South Croydon, and T. E. Gatehouse, Camberwell, county of Surrey, England. Circuit for telephonic communication	314,305	Mar. 24	1718	457	30	1122
Alabaster, Henry, South Croydon, and T. E. Gatehouse, Camberwell, county of Surrey, England. Telephone-receiver	314,306	Mar. 24	1719	457	30	1122
Alabaster, Henry, South Croydon, and T. E. Gatehouse, Camberwell, county of Surrey, England. Telephonic transmitter	314,307	Mar. 24	1720	457	30	1122
Alabaster, Henry, South Croydon, T. E. Gatehouse, Camberwell, county of Surrey, and H. R. Kempe, Barnet, county of Middlesex, England. Telephone	314,304	Mar. 24	1717	456	30	1122
Alapaw, Charles H., assignor of two-thirds to J. G. and F. A. Brinkmeyer, St. Louis, Mo. Calipers	311,000	Feb. 3	438	118	30	430
Albach, W. Harrison, and A. J. White, Mansfield, Ohio. Capsule-filler	317,482	May 12	757	193	31	669
Albach, William H., Mansfield, Ohio. Oven	324,448	Aug. 18	1422	388	32	802

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Albecker, John. (See Bippus, Ferdinand G., assignor.)						
Alberger, John L., Buffalo, N. Y., and T. Sault, New Haven, Conn. Condensing apparatus for steam-engines.	318,225	May 19	1733	{ 463 464 }	31	860
Albers, George H. (See Smith and Albers.)						
Albert, Eugene J., Philadelphia, Pa. Tail-piece for violins.	330,185	Nov. 10	1029	269	33	709
Albert, Henry, Crescent City, Cal. Safety-catch for elevators.	331,969	Dec. 1	1	1	33	1001
Albert, John D., Prospect, Pa. Fence-lock.	318,440	May 26	2023	545	31	921
Albertson, Henry C. (See Weston and Frost, assignors.)						
Albertson, John W., et al. (See Ebel, John V., assignor.)						
Albertson, William R., Worcester, Mass. Burnishing-machine for boots and shoes.	310,166	Jan. 6	5	2	30	4
Albey, John, assignor to F. A. Wheeler & Co., Montclair, N. J. Straw-board-lining machine.	325,779	Sept. 8	761	190	32	1169
Albin, Elmer E., Springfield, Ohio. Table-fork.	331,177	Nov. 24	2325	630	33	969
Albizitti, John, et al. (See Martin, William F., assignor.)						
Albrecht, Hermann, New York, N. Y. Combined swing and exercising apparatus.	324,513	Aug. 18	1513	416	32	818
Albright, Andrew. (See Finch, James B., assignor.)						
Albright, Andrew. (See Widmer, Frank, assignor.)						
Albright, Eli, et al. (See Brown, Hiram L., assignor.)						
Albro, Charles E., Philadelphia, Pa. Hoisting-machine.	316,718	Apr. 28	2405	627	31	456
Alcoke, Charles H., Hamilton, Ohio. Roller coasting-vehicle.	310,356	Jan. 6	264	73	30	51
Alcoke, Charles H., Hamilton, Ohio. Gravity railway.	317,373	May 5	466	117	31	609
Alcorn, David, Jr., and R. A. Blake, New York, N. Y. Corset-steel fastening.	317,699	May 12	1034	268	31	719
Alcorn, David, Jr., and R. A. Blake, New York, N. Y. Corset-steel fastening.	326,259	Sept. 15	1397	364	32	1296
Alcorn, John S., assignor of one-half to J. B. Sexton, Hartford, Conn. Machinist's planer.	325,229	Sept. 1	1	1	32	1015
Alcorn, Marshall G. (See Brown and Alcorn.)						
Alden, Charles E., assignor of five-eighths to D. Buist and J. Caldwell, Philadelphia, Pa. Drive-chain.	322,405	July 21	1341	349	32	261
Alden, Charles S., Rochester, N. Y. Cigar-tip cutter.	325,896	Sept. 8	898	226	32	1188
Alden, David A., Malden, assignor of one-half to Cotton & Gould, Boston, Mass. Moistening-roller.	321,075	June 30	2691	769	31	1607
Alden, Rinaldo. (See Earhuff and Alden.)						
Alden, Rinaldo, Chicago, Ill. Stop-knob for organs.	328,448	Oct. 20	1237	321	33	241
Alderman, Asa, Calvary, Ga. Combined rake and pitch-fork.	313,843	Mar. 17	1105	287	30	999
Alderton, William G., Brooklyn, N. Y. Necktie-band retainer.	318,646	May 26	2574	685	31	1018
Aldrich, Charles L. (See Young, Jesse R., assignor.)						
Aldrich, Hosea P., Boston, Mass. Lasting-pinchers.	322,338	July 14	1242	326	32	236
Aldrich, Hosea P., Boston, Mass. Sewing-machine.	332,317	Dec. 15	1571	413	33	1293
Aldrich, Seward B., Thurston, N. Y. Belt shortener and tightener for thrashing-machines.	330,542	Nov. 17	1499	401	33	805
Aldridge, Albert E., Chicago, Ill. Bushing and bung.	347,500	Oct. 6	1	1	33	3
Aldridge, Hiram, Wheeling, W. Va. Car-roof.	310,971	Jan. 20	1056	287	30	208
Alexander, C. Madison, Brightwood, D. C. Horseshoe.	327,752	Oct. 6	325	63	33	57
Alexander, Henry D., and D. Harrington, assignors of one-third to M. Baat, Canton, Ohio. Lawn-rake.	323,252	July 28	2513	667	32	481
Alexander & Herr. (See Adams, Gilbert L., assignor.)						
Alexander, James H., Philadelphia, Pa. Trunk-fastening.	321,779	July 7	503	134	32	94
Alexander, James H., assignor of one-half to C. L. Baker and J. W. Williams, Syracuse, N. Y. Prop-block cushion.	324,632	Aug. 18	1684	464	32	851
Alexander, James M., Clarksburg, W. Va. Cultivator and seed-dropper or planter combined.	324,208	Aug. 11	1103	298	32	735
Alexander, John, assignor, by mesne assignments, of one-half to J. C. Alexander, Hartford, Conn. Spring bed-bottom.	320,839	June 23	2551	676	31	1539
Alexander, John C. (See Alexander, John, assignor.)						
Alexander, John E., Bridgeport, N. J. Sash-fastener.	332,472	Dec. 15	1780	466	33	1329
Alexander, John W., New York, N. Y. Pencil-sharpener.	324,798	Aug. 25	1911	526	32	900
Alexander, Julius A., Monticello, Ark. Adjustable trace-connection for hames.	332,859	Dec. 22	2335	617	33	1435
Alexander, Julius A., Monticello, Ark. Hame-fastener.	332,680	Dec. 22	2336	618	33	1435
Alexander, Julius A., Monticello, Ark. Adjustable trace-fastener.	332,861	Dec. 22	2337	618	33	1435
Alexander, M. Clair. (See Southwick, Thomas A., assignor.)						
Alexander, Max. (See Alexander, Oscar and M.)						
Alexander, Oscar and M., New York, N. Y. Bed-lounge.	325,807	Sept. 8	899	226	32	1188
Alexander, Samuel G., Detroit, assignor to C. E. Wakeman & Co., Pontiac, Mich. Making combined knit and felt boots.	318,342	May 19	1896	511	31	889
Alexander, Samuel G., Detroit, assignor to C. E. Wakeman & Co., Pontiac, Mich. Combined felt and knit fabric.	325,808	Sept. 8	801	201	32	1169
Alexander, Thomas W., Chartiers township, Allegheny county, Pa. Pipe-coupling.	325,191	Aug. 25	2427	667	32	996
Alexander, W. Scott. (See Bailey and Alexander.)						
Alexander, William O., Richland, Mo. Corn-stalk chopper.	321,566	July 7	219	58	32	43
Alexander, Winston B. (See Durham and Alexander.)						
Alexanderson, Nils A., Stockholm, Sweden. Rendering cloth, wood, paper, &c., water-proof.	326,088	Sept. 15	1156		32	1243
Alger, John, and J. F. Cook, assignors to A. S. Cook, Hartford, Conn. Screw-machine.	319,542	June 9	777	207	31	1200
Alker, John H., Allegheny, Pa. Spike-machine.	315,693	Apr. 14	988	250	31	186
Alkins, Charles. (See Griffin and Alkins.)						
Alkins, Charles, assignor to Ajax Forge Company, Chicago, Ill. Machine for making arch-bars.	312,244	Feb. 17	1071	{ 295 296 }	30	563
Alkins, Charles, assignor to Ajax Forge Company, Chicago, Ill. Rail-brace.	329,991	Nov. 10	770	197	33	656
Allaben, Orson M., Margaretville, N. Y. Ditching-machine.	313,043	Mar. 3	5	1, 2	30	779
Allason, William J., Billings, Mont. Ter. Button and button-fastening.	311,460	Feb. 3	1	1	30	349
Allcock, Arthur T. (See Nicholson and Allcock.)						
Allent, Elwood H., Kansas City, Mo. Switch.	311,461	Feb. 3	2	1	30	349
Allerdice, Winslow, Akron, Ohio. Die for drawing and compressing tubes.	329,612	Nov. 3	259	67	33	554
Allerdice, Winslow, assignor to Agnew Shafting Company, Chicago, Ill. Machine for drawing metal rods or bars.	323,619	Aug. 4	313	90, 91	32	580
Allerdice, Winslow, assignor to Akron Iron Company, Akron, Ohio. Machine for drawing cold metal bars.	329,800	Nov. 3	501	{ 127 128 }	33	600
Allerdice, Winslow, assignor to Akron Iron Company, Akron, Ohio. Die.	329,801	Nov. 3	504	128	33	600
Allee, Elias W., Linnville, Iowa. Car-coupling.	322,339	July 14	1243	326	32	927
Allen, Aaron J., Hope, R. I. Governor for steam-engines.	319,658	June 9	933	247	31	1299
Allen, Augustus L., Poughkeepsie, N. Y. Apparatus for the manufacture of gas.	310,487	Jan. 6	411	113	30	79
Allen, Chancellor C. (See Crockett and Allen.)						
Allen, Charles C. (See Allen, Daniel W., assignor.)						
Allen, Charles C., assignor of one-half to N. A. Dorn, Salinas, Cal. Expanding horseshoe.	322,671	July 21	1697	450	32	325
Allen, Charles E., Adams, Mass. Electric telephone.	310,048	June 2	139	38	31	1073
Allen, Charles W., Valentine, Neb. Time-register for seats.	312,176	Feb. 10	983	268	30	538
Allen, Daniel M., Fort Wayne, Ind. Ointment.	323,631	Oct. 20	1490		33	286
Allen, Daniel W., assignor of one-half to C. C. Allen, Abington, Mass. Presser-foot-lifting and brake mechanism for sewing-machines.	327,218	Sept. 29	2706	704	32	1539

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Allen, Edward B., Portland, Me., assignor to J. W. Brooks, trustee, Cambridge, Mass. Heel-nailing machine for boots or shoes	310,488	Jan. 6	414	{ 113 114 }	30	80
Allen, Edward B., Portland, Me., assignor to J. W. Brooks, trustee, Cambridge, Mass. Heeling-block	314,411	Mar. 24	1853	494	30	1148
Allen, Edward B., Portland, Me., assignor to J. W. Brooks, trustee, Cambridge, Mass. Heeling-machine	319,377	June 2	532	147	31	1150
Allen, Edward B., Portland, Me., assignor to J. W. Brooks, trustee, Cambridge, Mass. Nailing-machine for boots and shoes	332,032	Dec. 8	1167	{ 305 306 }	33	1215
Allen, Edward B., Portland, Me., assignor to J. W. Brooks, trustee, Boston, Mass. Heel-trimming machine	332,924	Dec. 22	2505	662	33	1467
Allen, Edward M., assignor to S. E. Allen, Stafford, Md. Wagon-brake	322,340	July 14	1244	326	32	237
Allen, Edwin, Norwich, Conn. Circular saw	318,938	June 2	1	1	31	1049
Allen, Erasmus W., Seneca, Kans. Washing-machine	315,212	Apr. 7	334	81	31	60
Allen, Fred. E., North Grafton, Mass. Sink-cleaner	320,742	June 23	2442	647	31	1518
Allen, George, Franklin, Pa. Apparatus for pumping oil-wells	313,907	Mar. 17	1190	310	30	1015
Allen, George, Franklin, Pa. Converting motion in oil-pumping apparatus	326,008	Sept. 8	1046	266	32	1215
Allen, George, Franklin, Pa. Device for converting motion in oil-pumping apparatus	328,099	Oct. 13	773	902	33	146
Allen, George, Franklin, Pa. Device for transmitting motion in oil-pumping apparatus	332,318	Dec. 15	1573	413	33	1294
Allen, George H., Ayer, Mass. Pen-holder	311,556	Feb. 3	137	39	30	374
Allen, George H., Ayer, Mass. Soap-holder	312,601	Feb. 24	1567	429	30	665
Allen, George H., Brooklyn, N. Y. Folding table	326,260	Sept. 15	1396	364	32	1287
Allen, Henry A., Tecumseh, Neb. Corn-planter check-row	316,514	Apr. 28	2120	558	31	403
Allen, Henry F., assignor to E. S. T. Kennedy, New York, N. Y. Steam-boiler	314,308	Mar. 24	1721	458	30	1123
Allen, Hiram, and L. S. Mason, assignors to H. and L. Allen, Sandy Hill, N. Y. Machinery for preparing pulp from paper	320,612	June 23	2281	{ 603 604 604 385 }	31	1487
Allen, Horace R., Indianapolis, Ind. Portable bath-tub	320,037	June 16	1462	{ 263 264 }	31	1330
Allen, Horace R., Indianapolis, Ind. Platform-scale	322,146	July 14	1012	264	32	193
Allen, Horace R., Indianapolis, Ind. Chromatic printing apparatus	322,147	July 14	1014	264	32	193
Allen, Horace R., Indianapolis, Ind. Syringe attachment	330,081	Nov. 10	899	233	33	682
Allen, Horace R., Indianapolis, Ind. Syringe attachment	330,082	Nov. 10	901	233	33	683
Allen, Horace R., Indianapolis, Ind. Syringe attachment	330,083	Nov. 10	902	233	33	683
Allen, Horace R., Indianapolis, Ind. Syringe, &c.	330,084	Nov. 10	903	234	33	683
Allen, Jacob A., Cincinnati, Ohio. Detachable calk for horse-shoes	318,939	June 2	2	1	31	1049
Allen, James B. (See Tucker and Godfrey, assignors.)						
Allen, James W., St. Louis, Mo. Portable seal-press	331,601	Dec. 1	536	130	33	1091
Allen, John F., New York, N. Y. Ratchet-brace	320,323	June 16	1879	493	31	1403
Allen, John F., Martinsdale, Mont. Ter. Agricultural fork	327,052	Sept. 29	2482	648	32	1498
Allen, John F., Martinsdale, Mont. Ter. Castrating-instrument	320,691	Nov. 3	358	91	33	573
Allen, John G., deceased, Worcester, Mass., S. A. W. Gould administratrix. System of distribution for electric-lighting circuits	317,960	May 19	1390	373	31	795
Allen, John G., deceased, (S. A. W. Gould administratrix,) Worcester, Mass. Electric-arc lamp	327,375	Sept. 29	2911	760	32	1573
Allen, John R., Indianapolis, Ind. Log-boom	311,865	Feb. 10	530	145	30	455
Allen, John S., Yonkers, N. Y. Paddle-wheel for propelling vessels	318,408	May 19	1981	533	31	905
Allen, Joseph C., Plainfield, N. J. Type-writing machine	312,546	Feb. 17	1496	408	30	642
Allen, Judson, assignor of one-half to J. O. Hogg, Hannibal, Mo. Hay ricker and loader	327,852	Oct. 6	447	116	33	78
Allen, Leicester. (See Rogers and Allen.)						
Allen, Loren. (See Allen and Mason, assignors.)						
Allen, Louis H., New York, N. Y. Paper mold for casting stereotype-plates	326,376	Sept. 15	1551	403	32	1316
Allen, Nicholas I., assignor to I. W. Van Zandt, Rochester, N. Y. Belt-lace	313,974	Mar. 17	1292	336	30	1033
Allen, Orren C., et al. (See Henderson, Charles C., assignor.)						
Allen, Richard N., Cleveland, Ohio. Brake-shoe	315,213	Apr. 7	335	81	31	60
Allen, Richard N., Cleveland, Ohio. Gear-wheel	315,214	Apr. 7	336	81	31	60
Allen, Richard N., Cleveland, Ohio. Car-wheel	318,940	June 2	3	1	31	1049
Allen, Richard N., Cleveland, Ohio. Car-wheel	323,551	Aug. 4	224	66	32	563
Allen, Sallie E. (See Allen, Edward M., assignor.)						
Allen, Samuel F., assignor of two-thirds to T. R. Freeman and J. S. Toppan, Chicago, Ill. Torpedo for railway-signals	313,151	Mar. 3	151	37	30	805
Allen, Samuel L., Philadelphia, Pa. Furrowing and covering machine	318,441	May 26	2024	545	31	921
Allen, Stephen M., Duxbury, Mass. Manufacture of paper-pulp	323,771	Aug. 4	510		32	618
Allen, Stephen S. (See Lewis and Allen.)						
Allen, Theodore, Poughkeepsie, N. Y. Apparatus for broiling, toasting, &c.	317,431	May 5	688	174	31	647
Allen, Trowbridge, Spring Rancho, Neb. Device for loading live stock on wagons	319,164	June 2	281	74	31	1099
Allen, W. V., et al. (See Pulliam, William J., assignor.)						
Allen, William J., Norborne, Mo. Motor	313,641	Mar. 10	818	214	30	939
Allen, William O. (See Hamilton, Clarence J., assignor.)						
Allen, William P., Wyoming, Ohio. Calendar	328,171	Oct. 13	868	225	33	164
Allen, William P. C., Hoosierville, Ind. Coal-screen	323,772	Aug. 4	512	143	32	618
Allen, William R., assignor of three-fourths to P., L. C., and H. W. Marks, Cape Vincent, N. Y. Windmill	322,341	July 14	1245	327	32	237
Alender, Henry, Detroit, Mich. Hydrocarbon-gas machine	314,412	Mar. 24	1853	494	30	1149
Alender, Henry, Detroit, Mich. Machine-gun	323,997	Aug. 11	794	221	32	679
Alley, John O., assignor to Peninsular Stove Company, Detroit, Mich. Vapor-burner for stoves	329,251	Oct. 27	2354	610	33	450
Alffree, James B., assignor of one-half to R. Shriver and H. Swartzwelder, Cumberland, Md. Flour-bolt	313,152	Mar. 3	152	37, 38	30	805
Alffree, James B., assignor of one-half to R. Shriver and H. Swartzwelder, Cumberland, Md. Belt-tightener	328,373	Oct. 13	1129	291	33	214
Alin, Samuel, New York, N. Y. Sponge-cup	328,743	Oct. 20	1633	425	33	312
Allingham, James, Mitchell, Dak. Ter. Stove-pipe shelf and drum	314,413	Mar. 24	1854	494	30	1149
Allington, David K., East Saginaw, Mich. Band-saw mill	327,428	Sept. 29	2980	779	32	1586
Allis & Co., Edward P. (See Little, Samuel W., assignor.)						
Allis, Darwin F., Conway, Mass. Device for watering plants	318,075	May 19	1542	413	31	822
Allison, Asa H., Knightstown, Ind. Churn	314,772	Mar. 31	2362	625	30	1267
Allison, Benjamin A., Decatur, Ill. Washing-machine	331,602	Dec. 1	537	131	33	1092
Allison, James, et al. (See Linham, Robert E., assignor.)						
Allyn, Isaac W., Philadelphia, Pa. Pen wiper and holder	331,270	Dec. 1	2	1	33	1001
Allyn, Richard J. (See Lord, Henry S., assignor.)						
Allyn, Richard J. (See Stearns, George F., assignor.)						
Almond, David, Newark, N. J. Hat-forming machine	312,602	Feb. 24	1568	429	30	665
Almond, David, Newark, N. J. Hat-forming machine	326,377	Sept. 15	1552	403	32	1316
Almond, James, Brooklyn, N. Y. Cross-bow and arrow	315,878	Apr. 14	1251	326	31	223

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Alsasser, Joseph, Chicago, Ill. Bottle-stopper	324,449	Aug. 18	1424	389	32	802
Alsing, Johan R., New York, N. Y. Triturating-mill	320,994	June 30	2780	739	31	1586
Alsp, Frank, and C. T. Drake, Chicago, Ill. Clay-crushing machine	320,905	June 30	2659	707	31	1585
Alsop, Samuel, Jr., <i>et al.</i> (See Hardwick, Joseph O., assignor.)						
Alston, Kemp P., Jr., Leota Landing, Miss. Cotton and corn planter	322,772	July 21	1831	484	32	349
Altaffer, L. B. (See Walker and Altaffer.)						
Altico, S. H. (See Kerstetter, James L., assignor.)						
Altick, William, Dayton, Ohio. Sash-cord fastener	322,773	Dec. 22	2222	586	33	1415
Altland, George W., Mount Top, Pa. Grain-drill	319,659	June 9	934	247	31	1229
Altmajer, Peter A., assignor of one-half to S. A. Barr, Harrisburg, Pa. Safety-lock for fire-arms						
Altmann, Alois, Manitowoc, Wis. Mattress	320,038	June 16	1463	385	31	1331
Altmeyer, Jacob, Benwood, W. Va. Cold-air blast for the protection of nail-makers	324,349	Aug. 18	1222	351	32	779
Alvord, George E., St. Louis, Mo. Temporary binder	317,916	May 12	1322	354	31	775
Alvord, Ira M. (See Skinner, Henry M., assignor.)	319,660	June 9	935	247	31	1229
Alvord, Williston I., Bridgeport, Conn. Knob attachment	330,186	Nov. 10	1030	269	33	709
Alvord, Williston I., Bridgeport, Conn. Knob attachment	330,187	Nov. 10	1031	269	33	709
Alvord, Williston I., Bridgeport, Conn. Knob attachment	330,188	Nov. 10	1032	269	33	709
Alvord, Williston I., Bridgeport, Conn. Knob attachment	330,189	Nov. 10	1033	270	33	709
Amberg, William A. (See Patten, George M., assignor.)						
Amberg, William A., Chicago, Ill. Label-holder	316,929	May 5	1	1	31	523
Ambler, Artemas C. (See Stone and Ambler.)						
Ambler, Russell P., Medford, Mass., assignor of one-half to H. Deitz, Albany, N. Y. Apparatus for making and burning gaseous fuel	330,280	Nov. 10	1142	304	33	731
Ambler, Russell P., Medford, Mass., and H. Deitz, Albany, N. Y. Apparatus for making and burning gaseous fuel	330,190	Nov. 10	1034	270	33	710
Ambruster, Charles S., assignor of one-half to J. S. Watson, Yorktown, N. J. Hay-fork	316,719	Apr. 28	2407	627	31	456
Amer, Elvira S. (See Amer, Maurice W., assignor.)						
Amer, Maurice W., assignor to E. S. Amer, Glens Falls, N. Y. Harness	326,932	Sept. 29	2331	611	32	1471
American Artificial Stone Pavement Company. (See Scott, James P., assignor.)						
American Automatic Cartridge Company. (See Ring, John H., assignor.)						
American Automatic Lightning Arrester Company of New York. (See Drake, Charles C., assignor.) (Reissue.)						
American Axle and Wheel Company of New York. (See Jones, Willis, assignor.)						
American Ballot Box Association. (See Howell, Silas J., assignor.)						
American Bell Telephone Company. (See Eckert, Seely, and Eckert, assignors.)						
American Bell Telephone Company. (See Elden, Charles F., assignor.)						
American Bell Telephone Company. (See Farnham, Isaiah H., assignor.)						
American Bell Telephone Company. (See Gilliland, Ezra T., assignor.)						
American Bell Telephone Company. (See Husbands, José D., assignor.)						
American Bell Telephone Company. (See Price and Barrett, assignors.)						
American Bell Telephone Company. (See Thompson, George K., assignor.)						
American Bell Telephone Company. (See Thornberry, Henry S., assignor.)						
American Bell Telephone Company. (See Vail, Theodore N., assignor.)						
American Bell Telephone Company. (See Woods, Granville T., assignor.)						
American Brake Company. (See Poor, George H., assignor.)						
American Brick Kiln Company. (See Moe, Seth B., assignor.)						
American Button Fastener Company. (See Kempshall, Eleazer, assignor.)						
American Button Fastener Company. (See Richards, Francis H., assignor.)						
American Buttonhole, Overseaming and Sewing Machine Company. (See Goodwin, Julius C., assignor.)						
American Buttonhole, Overseaming and Sewing Machine Company. (See Larkin, Samuel, assignor.)						
American Buttonhole, Overseaming and Sewing Machine Company. (See Palmer, John H., assignor.)						
American Buttonhole, Overseaming and Sewing Machine Company. (See Pratt, Erastus S., assignor.)						
American Buttonhole, Overseaming and Sewing Machine Company. (See Reese, Evan C., assignor.)						
American Clay Bird Company. (See Marqua, Philip, assignor.)						
American Cotton Oil Company. (See Cathcart, Rodney S., assignor.)						
American Electric Arms and Ammunition Company. (See Russell, Samuel, assignor.)						
American Electric Headlight Company. (See Lynn, Mirabeau N., assignor.)						
American Electric Headlight Company. (See Lynn and Wheeler, assignors.)						
American Electric Headlight Company. (See Pyle, George C., assignor.)						
American Electric Manufacturing Company. (See Foote, Delavan S., assignor.)						
American Hand Sewing Machine Company. (See Barber, Adin M., assignor.)						
American Live Stock Express Company. (See Hicks, Henry C., assignor.)						
American Machinery Company. (See Bush, Lewis, Jr., assignor.)						
American Manufacturing Company. (See Braun, John, assignor.)						
American Marble Cutting Company. (See Maloy, James W., assignor.)						
American Metallic Fastening Association. (See Bacon, Henry S., assignor.)						
American Milk Sugar Company. (See Sabin, Alvah H., assignor.)						
American Oil Stove Company. (See Fletcher and Wilder, assignors.)						
American Optical Company. (See Borsch, Henry, assignor.)						
American Optical Company. (See Currin, John, assignor.)						
American Optical Company. (See Wells, George W., assignor.)						
American Pneumatic Signal Company. (See Chase, Edward M., assignor.)						
American Press Association. (See Cummings, George W. and J. R., assignors.)						
American Press Association. (See Cummings, John R., assignor.)						
American Press Association. (See Marshall, Albert W., assignor.)						
American Rein Hook Company. (See Hutchinson, Daniel, assignor.)						
American Rock and Track Lifter Company. (See Badger, Lewis D., assignor.)						
American Rock and Track Lifter Company. (See White, William O., assignor.)						
American Trades Agency Company. (See White, Lewis B., assignor.)						
American Wire Nail Company. (See Gedre and Meyerer, assignors.)						
American Writing Machine Company. (See Barron, Walter J., assignor.)						
American Writing Machine Company of New York. (See Yost, George W. N., assignor.)						
American Zylonite Company. (See Chickering, Charles C., assignor.)						
American Zylonite Company. (See Jarvis, J. George, assignor.)						
American Zylonite Company. (See Mowbray, George M., assignor.)						
Ames, Albert C., Chicago, Ill. Tractor-engine	320,743	June 23	2443	648	31	1519
Ames, Charles H., Union City, Pa., assignor of one-half to H. M. Gage, Jamestown, N. Y. Upholstering-spring	316,218	Apr. 21	1712	449	31	324

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Ames, Chester L., Cabery, Ill. Drying apparatus for brick and tile kilns	311,557	Feb. 3	137	39	30	374
Ames & Frost. (See Bryant, Fred L., assignor.)						
Ames & Frost. (See Frost and Bryant, assignors.)						
Ames, George E. (See Wild, William E., assignor.)						
Ames, John H., St. Paul, Minn. Automatic car-brake	318,076	May 19	1543	413	31	823
Ames, John H., St. Paul, Minn. Railway-signal	338,913	Oct. 27	1857	485	33	316
Ames, Joseph R., Clearfield County, Pa. Lock	327,053	Sept. 29	2483	649	32	1498
Ames, Walter, Toronto, Ontario, Canada. Machine for shearing card-board	324,633	Aug. 18	1685	464	32	851
Amet, Edward H., assignor to H. A. Streeter, Chicago, Ill. Lamp-controlling mechanism	312,944	Feb. 24	2011	549	30	744
Amet, Edward H., assignor to H. A. Streeter, Chicago, Ill. Electric weighing and recording device	317,432	May 5	689	174	31	647
Amet, Edward H., assignor to H. A. Streeter, Chicago, Ill. Electric steam-governor	326,232	Sept. 29	2232	611	32	1471
Amet, Edward H., assignor to H. A. Streeter, Chicago, Ill. Electric water-wheel governor	326,934	Sept. 29	2334	611	32	1471
Amet, Edward H., assignor to H. A. Streeter, Chicago, Ill. Electric governor for water-wheels	328,556	Oct. 20	1374	358	33	265
Amick, Myron J., Portland, Oreg. Amalgamator	332,473	Dec. 15	1761	466	33	1329
Amiro, Ambrose, assignor to himself and H. T. D'Entermont, Lower East, (Pubnico,) Nova Scotia, Canada. Floating sunken vessels	317,274	May 5	467	117	31	609
Ammerman, William M., Oakland, Ill. Corn-planter	317,275	May 5	468	118	31	609
Ammon, Jacob S. (See Guss, Samuel M., assignor.)						
Ammon, James S., Reading, Pa. Railway-tie	328,632	Oct. 20	1491	388	33	226
Amos, Daniel W., Saxton, Pa. Steam-engine	311,708	Feb. 3	323	89	30	410
Amsbury, Frank M., Binghamton, N. Y. Overdraw-check for bridles	323,620	Aug. 4	317	91	32	581
Amundson, Hans, and F. J. Henriksen, Racine, Wis. Force-feed seed-sower	321,878	July 7	648	168	32	118
Amundson, Hans, and F. J. Henriksen, Racine, Wis. Seed-sower	321,879	July 7	649	169	32	118
Amundson, Hans, and M. S. Field, Racine, Wis. Seeder	321,880	July 7	650	169	32	118
Anders, David B., Philadelphia, Pa. Cable-grip	330,744	June 23	2446	649	31	1510
Andersen, Anders, assignor to Kjöbenhavns Hestesko-fabrik, Copenhagen, Denmark. Machine for bending the ends of bars	312,547	Feb. 17	1499	409	30	642
Andersen, Anders, assignor to Kjöbenhavns Hestesko-fabrik, Copenhagen, Denmark. Machine for forming clips on horseshoes	315,591	Apr. 14	861	226	31	100
Andersen, Anders, assignor to Kjöbenhavns Hestesko-fabrik, Copenhagen, Denmark. Machine for forming clips on horseshoes	315,592	Apr. 14	862	227	31	100
Andersen, Christian, New York, N. Y. Mashing apparatus	332,774	Dec. 22	2223	586	33	1415
Andersen, Christian, and S. Wilhelm, Brooklyn, N. Y. Music-leaf turner	332,579	Dec. 15	1947	510	33	1357
Andersen, Peter, assignor to H. G. Olds, Fort Wayne, Ind. Wagon-box brace	323,552	Aug. 4	225	66	32	563
Anderson, Abraham, assignor to C. S., G. D., and F. Colton, Galesburg, Ill. Check-row corn-planter	313,466	Mar. 10	601	155	30	897
Anderson, Alphonso L. and W. T., Tolland, Conn. Grinding-mill	322,773	July 21	1832	465	32	349
Anderson, Andrew G., Janesville, Wis. Cultivator-tooth	315,879	Apr. 14	1252	327	31	823
Anderson, Archie, assignor of two-thirds to F. A. Wert and E. P. Boden, San José, Cal. Machine for exterminating ground-burrowing animals	329,252	Oct. 27	2355	610	33	451
Anderson, Carl B. (See Dunham, George, assignor.)						
Anderson, Charles, assignor to himself and E. W. Farrar, Downer's Grove, Ill. Combined screen and storm door	313,844	Mar. 17	1106	287	30	999
Anderson, Charles, assignor to C. Anderson and E. W. Farrar, Downer's Grove, Ill. Combined screen and storm door	321,936	July 14	730	191	32	141
Anderson, Charles A., Des Moines, Iowa. Car-coupling	322,887	July 28	2004	529	31	327
Anderson, Charles L., New York, N. Y., and C. F. Reed, Greene, Me., assignors to Elevator Safety and Motor Company, New York, N. Y. Elevator	321,567	July 7	219	58, 59	31	43
Anderson, David S., McGrawville, N. Y. Vehicle	327,429	Sept. 29	2983	779	32	1520
Anderson, Edward, Chicago, Ill. Automatic cradle-rocker	320,633	June 23	2552	676	31	1530
Anderson, Edwin S. (See Forbes, John A., assignor.)						
Anderson, Euclid, Peekskill, N. Y. Drilling-machine	311,709	Feb. 3	324	89, 90	30	410
Anderson, Euclid, Peekskill, N. Y. Ratchet-drill	316,381	Apr. 21	1845	467	31	347
Anderson, George, New York, N. Y. Plant-protector	327,510	Oct. 6	2	1	33	3
Anderson, George K., Memphis, Tenn. Stenographic printing-machine	323,226	July 28	2550	681	32	490
Anderson, George F. (See Hogeland, Israel, assignor.)						
Anderson, George W., Westport, Ind. Speed-governor	310,167	Jan. 6	7	3	30	4
Anderson, George W., Westport, Ind. Steam-cut-off valve	317,609	May 12	919	235	31	008
Anderson, Homer, Peekskill, N. Y. Index-plate for type-writing machines	318,077	May 19	1544	414	31	823
Anderson, Hugh J. (See Johnstone, John F., assignor.)						
Anderson, Ingvar, Pertham, Minn. Plow	332,862	Dec. 22	2337	618	33	1435
Anderson, Isaac N. (See Shackelford, Samuel, assignor.)						
Anderson, James, Oshkosh, Mich. Horse hay-rake	321,472	July 7	90	24	32	18
Anderson, James C., Highland Park, Ill. Device for conveying clay and clay-shale to the machines for pressing them into bricks	311,052	Jan. 20	1167	319	30	220
Anderson, James C., Highland Park, Ill. Construction of buildings	324,634	Aug. 18	1686	464	32	851
Anderson, James C., Highland Park, Ill. Preventing salt-peter exudations from forming on the face of walls of buildings	332,580	Dec. 15	1949	510	33	1357
Anderson, James C., and F. H. Latimer, Winnipeg, Manitoba, Canada. Boiler ash-pan	311,095	Jan. 20	1230	337	30	241
Anderson, James C., and F. H. Latimer, Winnipeg, Manitoba, Canada. Boiler ash-pan	315,215	Apr. 7	338	82	31	60
Anderson, James H., Macon, Ga. Pen-holder	310,771	Jan. 13	786	212	30	154
Anderson, James O., Quawwa, Ill. Inkstand	330,455	Nov. 17	1390	370	33	725
Anderson, John, et al. (See McGregor, Montague M., assignor.)						
Anderson, John A. E., Lebanon, assignor to himself and J. Gushwa, Lafayette, Ind. Lock and latch combined	331,671	Dec. 1	641	158	33	1110
Anderson, John H. (See Sandstrom and Anderson.)						
Anderson, John N., and J. M. Sherman, Ellsworth, Kans. Steam-cooker	328,702	Sept. 22	1975	519	32	1401
Anderson, John P., and J. C. Keller, Philadelphia, Pa. Ice-cream freezer	326,827	Sept. 22	2180	569	32	1436
Anderson, John W., Boscobel, Wis. Drag-saw	320,039	June 16	1464	325	31	1331
Anderson, Joseph, Pittsburg, Pa. Glass-furnace	315,694	Apr. 14	991	260	31	186
Anderson, Josiah B., Boston, Mass. Toy block	312,420	Feb. 17	1314	362	30	609
Anderson, Lee, Paris, Tex. Car-coupling	321,271	June 30	3133	835	31	1651
Anderson, Millard F., Corning, Iowa. Machine for laying tiles	316,515	Apr. 28	2122	558	31	403
Anderson, Millard F., and W. H. Wilcox, said Anderson assignor to Columbia City Manufacturing Company, Columbia City, Ind. Hame-tug	328,557	Oct. 20	1377	358	33	265
Anderson, Oliver H., Springfield, Ohio. Burial-vault	325,230	Sept. 1	2	1	32	1015
Anderson, Remus, Urbana, Ohio. Chill-mold for sash-weights	323,191	Dec. 29	2805	734	33	1525
Anderson, Robert D., Bay City, Mich. Milk can or carrier	315,371	Apr. 7	599	135	31	92

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Anderson, Thomas A., assignor of one-half to J. A. Burger, Lancaster, Pa. Picker-staff check for looms	330,191	Nov. 10	1036	270	33	719
Anderson, Valerius D., Cleveland, Ohio. Rendering-tank	318,156	May 19	1645	439	31	842
Anderson, William, Westminster, England. Filtering apparatus	322,148	July 14	1015	264	32	123
Anderson, William C., Cincinnati, Ohio. Cigar mouth-piece	319,165	June 2	282	74	31	1099
Anderson, William G., Boston, Mass. Window-screen	323,398	Aug. 11	673	189	32	657
Anderson, William H., Brooklyn, N. Y. Mechanical toy	311,219	Jan. 27	1415	385 386	30	281
Anderson, William H., Brooklyn, N. Y. Mechanical movement	311,220	Jan. 27	1418	386	30	281
Anderson, William H., Brooklyn, N. Y. Toy figure	328,272	Oct. 13	986	257	33	187
Anderson, William T. (See Anderson, Alphonso L. and W. T.)						
Anderson, William T., Rock Hill, S. C. Baling-press	310,357	Jan. 6	265	73	30	51
Andes, Henry, et al. (See Andes, Jacob, assignor.)						
Andes, Jacob, assignor of two-thirds to M. and H. Andes, Wilkes-Barré, Pa. Bridle and halter	318,409	May 19	1922	533	31	908
Andes, Michael, et al. (See Andes, Jacob, assignor.)						
Andrews, Thomas J. (See Dougherty, Tiberias, assignor.)						
Andrew, Charles H., Stockport, county of Chester, England. Gas-engine	314,284	Mar. 24	1688	449 450	30	1116
Andrew, Frederick, Burnt Ash, county of Kent, assignor of one-half to J. Christie, Mark Lane, London, England. Barrel-making machine	323,253	July 28	2514	667	32	481
Andrews, Albert F., Avon, Conn., assignor to Climax Fuse Company. Fuse for exploding gunpowder and other explosives	328,172	Oct. 13	869	225	33	164
Andrews, Alfred H., et al. (See Dodge, James M., assignor.) (Reissue.)						
Andrews Bros. & Co. (See Haas, Philip M., assignor.)						
Andrews, Charles A., Lynn, Mass. Carrying-tray	330,692	Nov. 17	1643	441	33	835
Andrews, Charles E., Boston, Mass. Spring-shank for boots or shoes	324,065	Aug. 11	894	247	32	696
Andrews, Edward N., Rutherford, N. J. Screw-threading machine	316,720	Apr. 28	2408	627	31	456
Andrews, Edwin W., Elmira, N. Y. Incubator	332,033	Dec. 8	1171	306	33	1316
Andrews, Edwin W., Elmira, N. Y. Automatic heat-regulator for incubators	333,097	Dec. 29	2673	707	33	1508
Andrews, Emanuel, Williamsport, Pa. Saw	315,372	Apr. 7	530	136	31	96
Andrews, Emanuel, Williamsport, Pa. Saw	315,373	Apr. 7	531	136	31	97
Andrews, Emanuel, Williamsport, Pa. Saw	315,374	Apr. 7	532	136	31	97
Andrews, Emery, Kennebunk, Me. Drier for paper-board	314,640	Mar. 31	2169	575	30	1231
Andrews, Emery, assignor to Leatheroid Manufacturing Company, Kennebunk, Me. Manufacture of parchment-paper or leatheroid	312,945	Feb. 24	2013	550	30	744
Andrews, Emery, assignor to Leatheroid Manufacturing Company, Kennebunk, Me. Trunk	312,946	Feb. 24	2014	550	30	744
Andrews, Emery, assignor to Leatheroid Manufacturing Company, Kennebunk, Me. Trunk-hinge	312,947	Feb. 24	2015	550	30	744
Andrews, Emery, assignor to Leatheroid Manufacturing Company, Kennebunk, Me. Box-fastener	314,641	Mar. 31	2170	576	30	1231
Andrews, Emery, assignor to Leatheroid Manufacturing Company, Kennebunk, Me. Bending-machine	329,613	Nov. 3	960	67	33	554
Andrews, Emery, assignor to Leatheroid Manufacturing Company, Kennebunk, Me. Box-fastener	329,614	Nov. 3	261	67	33	555
Andrews, Emery, assignor to Leatheroid Manufacturing Company, Kennebunk, Me. Nut-locking washer	329,615	Nov. 3	262	68	33	555
Andrews, Emery, assignor to Leatheroid Manufacturing Company, Kennebunk, Me. Box-fastener	329,676	Nov. 10	620	157	33	627
Andrews, Emery, assignor to Leatheroid Manufacturing Company, Kennebunk, Me. Trunk	332,034	Dec. 8	1172	307	33	1216
Andrews, Harrison A., Conneaut, Ohio. Lubricator	330,192	Nov. 10	1037	271	33	719
Andrews, Henry K., Eureka Springs, Ark. Band-cutter and feeder	325,222	Aug. 25	2469	679	32	1004
Andrews, Herbert L., et al. (See Dodge, James M., assignor.) (Reissue.)						
Andrews, John S., et al. (See Peek, James A., assignor.)						
Andrews, John S., Milltown, New Brunswick, Canada. Car-coupling	313,044	Mar. 3	6	2	30	789
Andrews, Joseph H., et al. (See Andrews, Oscar, assignor.)						
Andrews, Joseph H., et al. (See Moses and Andrews, assignors.)						
Andrews, Martin L. (See Brott and Andrews.)						
Andrews, Nathaniel S., assignor of one-half to H. F. Burnap, Dubuque, Iowa. Cream-testing churn	320,426	June 16	2032	533 534	31	1428
Andrews, Nathaniel S., and J. M. Burnap, Zwingle, assignors of one-third to H. F. Burnap, Jackson County, Iowa. Device for testing cream	316,860	Apr. 28	2609	680	31	493
Andrews, Oscar. (See Moses and Andrews.)						
Andrews, Oscar, assignor of three-fourths to J. H. Andrews, W. S. Moses, Gloucester, and G. Tucker, Rockport, Mass. Fish-cutting board	328,995	Oct. 27	1986	517	33	384
Andrews, Reuben H., Washington, D. C. Tricycle	310,868	Jan. 20	907	247	30	183
Andrews, Robert W., Staffordville, Conn. Fishing-rod	324,450	Aug. 18	1425	389	32	803
Andrews, Tyler, Boston, Mass. Broom-sprinkler	325,375	Sept. 1	202	51	32	1052
Andrews, William H. (See Bangs, Oliver, assignor.)						
Andrews, William S., assignor to Edison Electric Light Company, New York, N. Y. Electric lighting system and switch	317,610	May 12	921	236	31	696
Andrews, William S., assignor to Edison Electric Light Company, New York, N. Y. System of electrical distribution	317,700	May 12	1034	268	31	719
Andrews, William S., New York, N. Y., and T. Spencer, South Meriden, Conn. System of electric lighting	318,157	May 19	1646	440	31	842
Andris, Robert. (See Mayer, Benedict, assignor.)						
Andrus, Carlos F., assignor of one-half to C. M. Fulkerson, Cleveland, Ohio. Carburetor	327,981	Oct. 13	620	163	33	119
Andrus, Frank D., et al. (See Bolton, George W., assignor.)						
Aneshansel, Charles. (See Strong, William, assignor.)						
Angell, Albert, East Orange, N. J., assignor of one-half to I. Teichman, New York, N. Y. Combined cigar cutter and perforator	331,366	Dec. 1	156	40	33	1026
Angell, Edmund R., Derry, N. H. Machine for removing snow and ice from sidewalks	328,633	Oct. 20	1492	388	33	226
Angell, Edwin E. (See Harlow and Angell.)						
Angell, Ransom S., assignor of one-half to M. A. Spooner and F. D. Larrabee, Moorhead, Minn. Traction-engine	314,285	Mar. 24	1689	450	30	1117
Angell, Thomas, Brooklyn, N. Y. Gas-regulator	310,240	Jan. 6	98	27	30	21
Angell, Thomas, assignor to E. B. Willcox and W. Thompson, Brooklyn, N. Y. Gas-regulator	322,579	July 21	1577	415	32	302
Anglim, Edward, Brockton, Mass. Shoe	313,271	Mar. 3	341	84	30	838
Angus, Charles, Albany, assignor to Troy Laundry Machinery Company, (limited,) Troy, N. Y. Ironing-machine	321,671	July 7	349	93	32	66
Angus, James W., Macon City, Mo. Rosin-holder for violins	331,751	Dec. 8	766	193	33	1143
Anketell, Oliver, Newark, N. J. Bran-packer	318,158	May 19	1648	440	31	84

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Anlauf, Hermann, Drain, Oreg. Candlestick	315,695	Apr. 14	992	260	31	186
Annable, Edward R., assignor of one-half to J. Hodges, Paw Paw, Mich. Fence-post	311,710	Feb. 3	325	90	30	410
Annable, George G., and H. W. Leonard, assignors to Syracuse Paper Ware Company, Syracuse, N. Y. Machine for rolling hoops	394,973	Aug. 25	2149	585	32	944
Annett, George A., Bothwell, county of Kent, Canada. Cover for sewing-machine tables	313,908	Mar. 17	1191	310	30	1015
Annibal, Allevi, Chicago, Ill. Pump	316,434	Apr. 28	2017	520	31	383
Annin, Joseph. (See Hickins, Daniel J., assignor.)						
Ansley, Alanson, Geneva, N. Y. Potato-digger	394,911	Aug. 25	2063	584	32	922
Anson, Henry C., Derby, Ind. Steam-engine valve	332,983	Dec. 22	2338	618	33	1435
Anson, William, Small Heath, Birmingham, county of Warwick, England. Breech-loading fire-arm	327,914	Oct. 6	629	138	33	95
Ansonia Brass and Copper Company. (See Cowles, Alfred A., assignor.)						
Ansonia Brass and Copper Company. (See Lyman, William T., assignor.)						
Ansonia Brass and Copper Company. (See Stone and Walton, assignors.)						
Ansonia Brass and Copper Company. (See Walton, William R., assignor.)						
Ansonia Brass and Copper Company et al. (See Hoadley, Robert, assignor.)						
Ansonia Brass and Copper Company et al. (See Lyman, Charles H., assignor.)						
Ansonia Brass and Copper Company et al. (See Weber, Theodore A., assignor.)						
Ansonia Clock Company. (See Davies, Walter D., assignor.)						
Ansonia Clock Company. (See Ganes, Jacob, assignor.)						
Antal, Fromm, Buda-Pesth, Austria-Hungary. Apparatus for warming wine without bringing it in contact with atmospheric air	314,773	Mar. 31	2364	625	30	1268
Antal, Fromm, F. J. Kugler, and B. Mátyás, Buda-Pesth, Austria-Hungary. Apparatus for heating liquids	319,874	June 9	1930	325	31	1280
Antes, Robert H., Geneseo, Ill. Dental plugger	336,537	Sept. 22	1749	457	32	1361
Anthea, John S., Berlin, Ontario, Canada. Child's vehicle	332,131	Dec. 8	1391	343	33	1242
Anthoine, J. W., et al. (See Gladish, William J., assignor.)						
Anthoine, James W., Enfaula, Ala. Crushing and grinding machine	319,106	June 2	222	74	31	1099
Anthoine, James W., Enfaula, Ala. Cotton-seed and grain crusher	338,996	Oct. 27	1987	617	33	324
Anthony, Benjamin F. (See Kelleher, William H., assignor.)						
Anthony, Benjamin F., Boston, Mass. Shovel	339,132	Dec. 8	1321	343	33	1242
Anthony, Benjamin F., and J. Coran, Boston, Mass. Pipe-coupling	327,922	Oct. 13	621	163	33	119
Anthony & Co., E. & H. T. (See Barker, Erastus B., assignor.)						
Anthony & Co., E. & H. T. (See Lewis, William H., assignor.)						
Anthony & Co., E. & H. T. (See Prosch, Cyrus, assignor.)						
Anthony & Co., E. & H. T. (See Roche, Thomas C., assignor.)						
Anthony & Co., E. & H. T. (See Wilcox, Vincent M., assignor.)						
Anthony, Edgar W., Boston, Mass. Heating stove	318,847	May 26	2574	685	31	1018
Anthony, Edgar W., Boston, Mass. Stove	330,111	June 16	1566	413	31	1349
Anthony, Edwyn, Jersey City, N. J., assignor to R. Hoe & Co., New York, N. Y. Delivery apparatus for printing-machines	314,555	Mar. 31	2053	548	30	1211
Anthony, Edwyn, Jersey City, N. J., assignor to R. Hoe & Co., New York, N. Y. Printing-machine	314,556	Mar. 31	2056	548	30	1211
Anthony, Edwyn, Jersey City, N. J., assignor to R. Hoe & Co., New York, N. Y. Printing-machine	394,974	Aug. 25	2144	586	32	944
Anthony, Edwyn, Jersey City, N. J., assignor to R. Hoe & Co., New York, N. Y. Printing-machine	394,975	Aug. 25	2145	586	32	944
Anthony, Edwyn, Jersey City, N. J., assignor to R. Hoe & Co., New York, N. Y. Printing-machine	394,976	Aug. 25	2146	587	32	945
Anthony, Edwyn, Jersey City, N. J., assignor to R. Hoe & Co., New York, N. Y. Printing-machine	325,146	Aug. 25	2365	651	32	985
Anthony, James H., assignor to Household Sewing Machine Company, Providence, R. I. Shuttle for sewing-machines	315,880	Apr. 14	1954	397	31	924
Anthony, Jesse, Cocolo, Cal. Rasp	324,912	Aug. 25	2063	585	32	922
Anthony, Marcus O., Bay City, assignor of one-half to I. Landsbery, Detroit, Mich. Swing-bridge	325,472	Sept. 1	341	83	32	1080
Anthony, Mark, San Francisco, Cal. Station indicator	325,643	Sept. 8	371	145	32	1129
Anthony, Samuel I., New York, N. Y. Furnace for generating illuminating-gas	311,403	Jan. 27	1675	457	30	329
Anthony, William H. (See Emmert, Jesse A., assignor.)						
Anton, August F. (See Baxter and Anton.)						
Apel, Hermann C., Milwaukee, Wis. Water-closet valve	310,972	Jan. 20	1058	287	30	209
Apfel, Alexander L., et al. (See Nawadny, Albert, assignor.)						
Appel, Aaron, Chicago, Ill. Marking-tag	319,543	June 9	778	907	31	1200
Appel, Daniel, Cleveland, Ohio, assignor to Eastern Paper Bag Company, Hartford, Conn. Paper-bag machine	332,631	Dec. 15	2011	527	33	1370
Appell, John F., Chicago, Ill. Desk	329,992	Nov. 10	771	197	33	656
Apple, John B., Philadelphia, Pa. Hydrocarbon-burner	323,385	Aug. 4	3	1	32	523
Apple, Titus H., Meadville, Pa. Chimney-flashing	316,861	Apr. 28	2611	681	31	493
Appleby, George W., Cohoes, N. Y. Compound valve	318,159	May 19	1649	441	31	843
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Mechanism for raising and lowering harvesting-machines	310,928	Jan. 20	987	268	30	126
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Knotting mechanism for grain-binders	312,790	Feb. 24	1814	498	30	709
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Mechanism for supporting and adjusting the elevation of harvester-platforms	314,774	Mar. 31	2365	626	30	1268
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Knotting mechanism for grain-binders	315,216	Apr. 7	339	82	31	61
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Adjustable binder for harvesters	315,993	Apr. 21	1413	367	31	269
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Knotting mechanism for grain-binders	319,167	June 2	283	75	31	1099
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Grain-carrier for low-down grain-binders	323,386	Aug. 4	4	1, 2	32	523
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Harvester	324,350	Aug. 18	1292	351	32	779
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Grain-binder	332,985	Dec. 22	2506	663	33	1467
Appleby, John F., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Grain-binder	332,986	Dec. 22	2508	663	33	1467
Appleby, John W., Kalamazoo, Mich. Temporary binder	324,451	Aug. 18	1426	389	32	803
Appleton, David, Manchester, England. Apparatus for electroplating	313,569	Mar. 10	725	190	30	922
Appleton, Henry P., Norwich, Conn. Knob attachment	331,752	Dec. 8	767	193	33	1143
Appleton, Samuel, Bristol, Pa. Stocking	323,287	July 28	2561	682	32	480

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Applewhite, David T., Clayton, Tex. Cotton, corn, and pea planter.....	324,514	Aug. 18	1513	416	32	818
Arbens, Fredrick C., Wheeling, W. Va. Portable wardrobe and book-case.....	325,644	Sept. 8	573	145	32	1129
Archambault, Jules N., Willimantic, Conn. Dumping-wagon.....	333,048	Dec. 22	2600	681	33	1483
Archer, Benjamin F., Marietta, Miss. Harness-saddle.....	313,153	Mar. 3	154	38	30	805
Archer & Pancoast Manufacturing Company. (See Deava, Charles, assignor.)						
Archer & Pancoast Manufacturing Company. (See Fischer, Charles H., assignor.)						
Archer, Roger W., Beeville, Tex. Combination-tool.....	313,273	Mar. 3	342	84	30	838
Archer, William S., New York, N. Y. Machine for disintegrating fiber preparatory to being felted.....	314,642	Mar. 31	2170	576	30	1231
Archibald, Charles. (See Ross, Daniel, assignor.)						
Archibald, Isaac W., Elgin, Ill. Fence.....	321,171	June 30	3010	797	31	1622
Archibald, Isaac W., Elgin, Ill. Vehicle-axle.....	332,049	Dec. 22	2602	681	33	1484
Archibald, Nelson, Santa Maria, Cal. Fire lighter and kindler.....	311,462	Feb. 3	4	1	30	349
Arct, Juan B., and J. Chapman, Brooklyn, N. Y. Steam-radiator.....	310,633	Jan. 13	603	167	30	121
Arct, Juan B., and J. Chapman, Brooklyn, N. Y. Steam-radiator.....	310,634	Jan. 13	606	167	30	121
Arct, Juan B., and J. Chapman, Brooklyn, N. Y. Steam-radiator.....	330,203	June 16	1679	447	31	1369
Aregood, George H. (See Aregood, John W. and G. H.)						
Aregood, John W. and G. H., Chicago, Ill. Carrier for clay and brick.....	323,691	Aug. 4	319	91.92	32	561
Arents, Albert, Alameda, Cal. Rotary roasting-furnace.....	321,780	July 7	504	134	32	94
Arentz, Hjalmar, Copenhagen, Denmark. Apparatus for cleaning the sides and bottoms of ships.....	322,744	Oct. 20	1633	425	33	312
Argand Refining Company. (See Pattin, Richard, assignor.)						
Argerbright, Solomon A., Decatur, Ind. Fastening device for coffins.....	330,834	June 23	2353	676	31	1539
Argersinger, Chauncey E., et al. (See Hall, Eugene E., assignor.)						
Arkell, James, Canajoharie, N. Y. Making paper bags.....	325,148	Aug. 25	2362	652	32	986
Arkell, James, assignor to Arkell & Smitha, Canajoharie, N. Y. Paper bag.....	325,147	Aug. 25	2366	652	32	986
Arkell & Smitha. (See Arkell, James, assignor.)						
Armbruster, Frederick, New York, N. Y. Manufacturing handles for traveling-bags.....	326,471	Sept. 15	1662	434	32	1337
Arment, Isaac N., Dayton, Wash. Ter. Can-opener.....	327,953	Oct. 13	621	163	33	119
Armington, Monterey, Spring City, Pa. Oven-shelf.....	325,645	Sept. 8	574	145	32	1129
Armington, Pardon, Providence, R. I. Steam-engine governor.....	327,128	Sept. 29	2591	673	32	1516
Armington, Pardon, assignor to Armington & Sims Engine Company, Providence, R. I. Lubricator.....	330,767	Nov. 17	1786	481	33	862
Armington, Pardon, assignor to Armington & Sims Engine Company, Providence, R. I. Lubricator.....	330,768	Nov. 17	1786	481	33	862
Armington, Pardon, assignor to Armington & Sims Engine Company, Providence, R. I. Piston-valve.....	332,632	Dec. 15	2014	528	33	1370
Armington & Sims Engine Company. (See Armington, Pardon, assignor.)						
Armington, William W., Providence, R. I. Toy spring-gun.....	316,892	Apr. 28	2612	691	31	493
Armington, William W., Providence, R. I. Toy-ball-throwing device.....	323,843	Aug. 4	592	166	32	635
Armour, Charles W., Summit, N. J. Paper for roofing-felt, &c.....	311,938	Feb. 10	640	175	30	470
Armour, Charles W., Summit, N. J. Paper for sheathing, &c.....	311,939	Feb. 10	641	176	30	476
Arms, Harrison, Toledo, Ohio. Stock-car.....	328,745	Oct. 20	1635	426	33	313
Arms, Harrison, Toledo, Ohio. Stock-car.....	328,746	Oct. 20	1635	426	33	313
Arms, Harrison, Toledo, Ohio. Stock-car.....	328,747	Oct. 20	1636	426	33	313
Arms, Henry F. (See Perkins, William C., assignor.)						
Armstrong, Albert, assignor of one-half to H. Wende, Cincinnati, Ohio. Vehicle-spring.....	326,472	Sept. 15	1664	434	32	1337
Armstrong, Alfred T. (See Armstrong, Wilbur I., assignor.)						
Armstrong, David M., Roanoke, Va. Steam-cooker.....	322,746	July 21	1833	485	32	350
Armstrong, Edwin E., Detroit, Mich. Harness-saddle pad.....	311,940	Feb. 10	641	176	30	476
Armstrong, Elvin, Jerseyville, Ill. Bee-hive.....	330,365	Nov. 17	1271	337	33	763
Armstrong, Frank. (See Vandegrift, Nathaniel W., assignor.)						
Armstrong, Frank. (See Vandegrift and Armstrong.)						
Armstrong, Frank, Bridgeport, Conn. Snap-hook.....	311,941	Feb. 10	642	176	30	476
Armstrong, Frank, Bridgeport, Conn. Water-back.....	324,515	Aug. 18	1515	417	32	818
Armstrong, Frank, Bridgeport, Conn. Die-stock.....	324,516	Aug. 18	1515	417	32	819
Armstrong, Geneva, Elmira, N. Y. Stock-car.....	323,378	Dec. 29	3058	797	33	1570
Armstrong, George F., Philadelphia, Pa. Warehouse-truck.....	324,066	Aug. 11	895	247	32	696
Armstrong, George S., Denver, Colo. Concentrator.....	327,915	Oct. 6	530	138	33	95
Armstrong, George S., assignor of one-half to W. G. Hutchinson and J. L. Berger, Denver, Colo. Pipe and monkey wrench.....	323,017	July 28	2186	580	32	421
Armstrong, James D., Rocky Mount, N. C. Manure-drill.....	317,483	May 12	758	193	31	669
Armstrong, John B., Guelph, Ontario, Canada. Thill-coupling.....	310,358	Jan. 6	268	73.74	30	51
Armstrong, John B., Guelph, Ontario, Canada. Vehicle running-gear.....	319,049	June 2	140	38	31	1073
Armstrong, John B., Guelph, Ontario, Canada. Vehicle running-gear.....	319,050	June 2	142	38	31	1073
Armstrong, John B., Guelph, Ontario, Canada. Carriage-gear.....	319,378	June 2	539	147	31	1151
Armstrong, John B., assignor of one-half to S. P. Brockway, Chicago, Ill. Treatment of cotton-seed oil.....	318,410	May 19	1983	533	31	905
Armstrong, John B., assignor of one-half to F. E. Beane and R. Carter & Co., Augusta, Ga. Shutter-worker.....	330,085	Nov. 10	905	234	33	673
Armstrong, Martin, Milan, Kans. Automatic car-brake.....	313,154	Mar. 3	155	38	30	805
Armstrong, Samuel, assignor to A. D. Campbell, Newark, N. J. Toy revolving detonator.....	330,026	Nov. 10	906	234	33	683
Armstrong, Uel W. (See Hall, Harvey N., assignor.)						
Armstrong, Wilbur I., assignor to himself and A. T. Armstrong, Bolvidere, Ill. Paint-distributor.....	311,631	Feb. 3	228	64	30	392
Armstrong, William T., and R. H. Thomas, Chartiers, Pa. Glass-furnace.....	328,173	Oct. 13	570	226	33	164
Armytage, John E. B., Victoria Foundry, Stanningley, county of York, England. Chair used for fixing lines of railways.....	323,437	Dec. 29	3133	819	33	1583
Arndt, Daniel, assignor to A. Romeau, Cleveland, Ohio. Lawn-mower.....	328,374	Oct. 13	1130	291	33	214
Arndt, Theophilus, Florin, assignor to himself and W. Scholing, Mount Joy, Pa. Stock-releasing device.....	324,742	Aug. 18	1818	502	32	877
Arnett, William D., Morrison, Colo. Seeding-machine.....	312,791	Feb. 24	1815	498	30	709
Arnett, William D., near Morrison, Colo. Seeding-machine.....	331,753	Dec. 8	768	193	33	1143
Arnold, Allen. (See Marvin and Arnold.)						
Arnold, Alonzo B., assignor of one-half to J. E. Carey, Gladbrook, Iowa. Neck-yoke.....	330,524	June 23	2167	572	31	1465
Arnold, Alonzo C., and W. Thompson, Norwalk, Conn.; said Arnold assignor to said Thompson. Machine for curling hat-brims.....	326,935	Sept. 29	2336	611	32	1479
Arnold, Anna M. (See Arnold, Satterlee, assignor.)						
Arnold, Benjamin F. (See Bates, Daniel L., assignor.)						
Arnold, Charles B., Glencoe, Ky. Hand corn-planter.....	315,881	Apr. 14	1255	337	31	234
Arnold, Charles N., et al. (See Doane, Andrew J., assignor.)						
Arnold, Clarence R., Wellsville, Ohio. Double pen-holder.....	310,168	Jan. 6	10	3	30	5

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Arnold, Cornelius, Raymond, Ill. Hog-trap	325,473	Sept. 1	342	83	33	1081
Arnold, Craig R., Philadelphia, Pa. Incandescent electric-lamp switch	328,631	Oct. 30	1735	451	33	332
Arnold, Craig R., Philadelphia, Pa. Automatic switch-board for electric lamps	328,632	Oct. 20	1736	451	33	332
Arnold, D. J. C. (See Jull, Samuel T., assignor.)						
Arnold, Daniel J. C., New London, Ohio. Brick-truck	316,322	Apr. 21	1846	488	31	347
Arnold, Edward, et al. (See Cuming, Alfred A., assignor.)						
Arnold, Edward F., North Abington, Mass. Machine for sewing welts to shoe insoles and uppers	329,426	Nov. 3	1	1	33	505
Arnold, Fred E. (See Arnold, George W. and F. E.)						
Arnold, George W., Knoxville, Ill. Sash-balance	319,379	June 2	541	147	31	1151
Arnold, George W. and F. E., Ionia, Mich. Draft-equalizer	315,375	Apr. 7	534	136	31	97
Arnold, James S., near Roanoke, Tex. Well-bucket	330,635	June 23	2554	676	31	1539
Arnold, Johann G. (See Fleischer, Müller, and Arnold.)						
Arnold, John M., et al. (See Randol, Alexander, assignor.)						
Arnold, Killan, Brooklyn, and J. J. Gerber, Jamaica, N. Y. Zither	315,376	Apr. 7	534	137	31	97
Arnold, Louis L., Buffalo, N. Y. Window-sash	333,438	Dec. 29	3134	819	33	1588
Arnold, Oliver, assignor to T. K. Earle Manufacturing Company, Worcester, Mass. Machine for feeding wire	315,662	Apr. 14	1256	328	31	234
Arnold, Oliver, assignor to T. K. Earle Manufacturing Company, Worcester, Mass. Mechanical movement	315,663	Apr. 14	1257	328	31	234
Arnold, Olney, Pawtucket, R. I. Life-saving apparatus	322,149	July 14	1016	264	32	193
Arnold, Paul, et al. (See Mellum, Ole H., assignor.)						
Arnold, Rouse H. (See Whittemore, Arnold, and Staples.)						
Arnold, Samuel C., West Lebanon, N. H. Stable-scraper	320,112	June 16	1567	413	31	1349
Arnold, Satterlee, assignor to A. M. Arnold, Brooklyn, N. Y. Link or pitman	311,558	Feb. 3	139	30	30	374
Arnold, Satterlee, assignor to A. M. Arnold, Brooklyn, N. Y. Apparatus for guiding, straightening, and evening fabrics for presentation to stitch-forming mechanism	313,909	Mar. 17	1192	310	30	1015
Arnold, Satterlee, assignor to A. M. Arnold, Brooklyn, N. Y. Shuttle and shuttle-holder for sewing-machines	324,351	Aug. 18	1293	351	32	779
Arnold, Satterlee, assignor to A. M. Arnold, Brooklyn, N. Y. Sewing-machine	331,106	Nov. 24	2216	600	33	950
Arnold, Satterlee, assignor to A. M. Arnold, Brooklyn, N. Y. Sewing-machine	331,107	Nov. 24	2223	603	33	951
Arnold, Satterlee, assignor to A. M. Arnold, Brooklyn, N. Y. Feeding mechanism for sewing-machines	331,108	Nov. 24	2226	604	33	951
Arnold, Saxton J., Hubbardston, Mass. Horse hay-rake	328,633	Oct. 20	1736	451	33	332
Arnold, T. J. (See Crumley, E. Miner, assignor.)						
Arnold, William, Pawtucket, assignor to R. N. Colvin, Providence, R. I. Washing-machine	333,050	Dec. 22	2603	692	33	1484
Arnold, William B., North Abington, Mass. Boot or shoe and welt therefor	324,352	Aug. 18	1295	362	32	780
Arnold, William E. (See Dillon, William S. F., assignor.)						
Arnold, William S., Chatham, Ontario, Canada. Steam-engine	310,489	Jan. 6	417	115	30	80
Arnould, Ernest, Paris, France. Electrical lighting apparatus	319,380	June 2	542	148	31	1151
Arrieta, Apolinar, Pamplona, Spain. Machine for thrashing grain	325,582	Sept. 1	487	121	32	1108
Arrington, W. T. (See Randall and King, assignors.)						
Arrowsmith, Mary A., Freehold, N. J. Fire-escape	323,266	July 22	2561	692	32	490
Arter, Alpheus, New Lisbon, and W. R. Knowles, Columbiana, Ohio. Harness-saddle	318,848	May 26	2575	685	31	1019
Arthur, Charles M., Evansville, Wis. Paper box	310,941	Jan. 6	99	27	30	91
Arthur, Charles M., Evansville, Wis. Paper box. (Reissue.)	10,614	June 16	2074	544	31	1440
Arthur, Joseph A., Louisa, Ky., assignor of one-half to W. H. Robinson and E. Muhleman, Wheeling, W. Va. Rotary engine	320,204	June 16	1679	447	31	1370
Arthur, Thomas, assignor to himself and R. J. Nagle, Bangor, Pa. Combined air-exhauster and water-elevator	330,366	Nov. 17	1272	338	33	763
Artz, George L., Columbus, Ohio. Top-prop block for carriages	313,570	Mar. 10	726	190	30	922
Arzberger, Moriz, Vienna, Austria. Lamp for light-houses	318,849	May 26	2577	686	31	1019
Asbury, T. Henry, assignor to Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Tobacco-oniter	311,053	Jan. 20	1168	319	30	230
Ash, Joseph. (See Harrop, Joseph M., assignor.)						
Ashby, George H., Oskaloosa, Iowa. Gearing	312,064	Feb. 10	815	222	30	507
Ashcroft, Charles E., Lynn, Mass. Smelting-furnace	314,537	Mar. 31	2059	550	30	1211
Ashcroft, Charles E., Lynn, Mass. Radiator	326,473	Sept. 15	1664	434	32	1337
Ashcroft, Edward H., Lynn, Mass. Automatic fire-extinguisher	324,209	Aug. 11	1104	298	32	735
Ashcroft, John, New York, N. Y. Glass-furnace	311,054	Jan. 20	1169	320	30	231
Ashcroft, John, New York, N. Y. Tile for glass and other furnaces	311,055	Jan. 20	1171	320	30	231
Ashcroft, John, New York, N. Y. Glass-furnace	327,964	Oct. 13	623	164	33	120
Ashcroft, John, New York, N. Y. Gas-furnace	328,914	Oct. 27	1858	485	33	361
Ashcroft, John, New York, N. Y. Device for burning gas in furnaces	332,223	Dec. 15	1447	375	33	1271
Ashcroft Manufacturing Company. (See Calkins, Almon B., assignor.)						
Ashe, Robert, Somerville, Mass. Edge-burnishing machine	313,155	Mar. 3	157	39	30	806
Ashe, Robert, Boston, Mass. Machine for upsetting heads on nail-strips	319,381	June 2	544	148	31	1151
Asher, George, Balsall Heath, and J. Buttress, Sparkbrook, county of Worcester, England. Explosive engine	329,354	Oct. 27	2507	645	33	478
Asher, William, Cleveland, Ohio. Paraffine-oil freezing-machine	327,985	Oct. 13	624	164	33	120
Ashford, Thomas B., Clinton, N. C. Metal eyelet or button-hole	329,692	Nov. 3	359	91	33	573
Ashley, Charles W., Chatham, N. Y. Potato-digger	324,743	Aug. 18	1819	503	32	877
Ashley, Harford. (See Brenton, Francis W., assignor.)						
Ashley Wire Company. (See Hanscom, Joshua F., assignor.)						
Ashner, Sigmund, New York, N. Y. Bathing-garment	313,845	Mar. 17	1106	287	30	999
Ashton, Frank, Washington, D. C. Support for pantaloons	323,699	Aug. 11	673	189	32	657
Ashton, James S., assignor of one-half to C. L. Bartels, Rochester, N. Y. Automatic elevator-stop	331,672	Dec. 1	642	158	33	1110
Ashton, John, et al. (See Ward, Joseph, assignor.)						
Ashton, John, Philadelphia, Pa. Sash-fastener	314,162	Mar. 17	1525	400	30	1077
Ashurst, John L., assignor to L. B. Ashurst, Havana, Ill. Grain-drill	325,583	Sept. 1	488	122	32	1109
Ashurst, Lewis B. (See Ashurst, John L., assignor.)						
Ashworth, Charles, Grosvenor Dale, Conn. Revolving sweeping attachment for spinning-mules	329,117	Oct. 27	2166	561	33	415
Ashworth, Elijah. (See Ashworth, George and E.)						
Ashworth, George and E., Manchester, county of Lancaster, England. Curved guide for the traveling flats of carding-engines	318,226	May 19	1737	465	31	860

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Ashworth, George and E., Manchester, county of Lancaster, England. Carding-machine.	331,331	June 30	3303	854	31	1065
Ashworth, John, assignor to himself, C. S. Petrie, and D. J. Sweeney, Chicago, Ill. Valved hose-nozzle.	325,720	Sept. 8	692	170	32	1147
Asiel & Co., L. N., et al. (See West, Jonathan B., assignor.) (Reissue.)						
Asper, Benjamin F., Pittsburg, assignor to J. C. Grady, trustee, Philadelphia, Pa. Coal-mining machine.	329,526	Nov. 3	142	36.37	33	532
Aspinwall, D. Le Mont, Portsmouth, assignor of one-half to J. H. Van Auker, Petersburg, Va. Combined agricultural implement.	317,276	May 5	469	{ 118 119 }	{ 31	609
Aston, Franklin K. (See Aston, Joseph F., assignor.)						
Aston, Joseph F., assignor to himself and F. K. Aston, Watsonville, Cal. Reversible hinge.	317,701	May 12	1035	269	31	720
Atcherley, Rowland J., London, England. Amalgamator.	312,240	Feb. 10	1063	292	30	553
Atcheson, Theophilus, assignor of one-fourth to G. E. Buckley, Philadelphia, Pa. Paper-pulp-digester valve.	314,643	Mar. 31	2172	576	30	1231
Atha, Benjamin, Newark, N. J. Ingot-mold.	330,281	Nov. 10	1145	304	33	731
Athay, Alfred J. (See Smith and Athay.)						
Athearn, William E., New York, N. Y. Telegraphy.	324,799	Aug. 25	1912	526	32	901
Atherton, Abel T. (See Potter, James C., assignor.)						
Atherton, Abel T., Lowell, Mass. Machinery for the manufacture of roving for spinning purposes.	311,096	Jan. 20	1231	337	30	241
Atherton, Abel T., Lowell, Mass. Cotton-opener.	311,097	Jan. 20	1233	338	30	241
Atherton, Abel T., Lowell, Mass. Carding-machine.	311,404	Jan. 27	1677	{ 457 458 }	{ 30	329
Atherton, Abel T., Lowell, Mass. Temporary binder.	314,509	Mar. 24	1993	531	30	1172
Atherton, Abel T., Lowell, Mass. Loom-shuttle.	314,907	Mar. 31	2545	673	30	1300
Atherton Machine Company. (See Potter, James C., assignor.)						
Atkin, Samuel T., assignor of one-half to O. Steele, Georgetown, Tex. Water-cup for stove-pipes.	313,273	Mar. 3	343	85	30	838
Atkin, Samuel T., assignor to himself and O. Steele, Georgetown, Tex. Ventilating-chimney.	314,309	Mar. 24	1722	458	30	1123
Atkin, Samuel T., and W. L. Steele, assignors of one-third to O. Steele, Georgetown, Tex. Cuff-holder.	330,282	Nov. 10	1147	305	33	732
Atkins & Co., E. C. (See Black, George S., assignor.)						
Atkins, George T. (See Monday, Robert O., assignor.)						
Atkins, Harry T. (See Mullen and Atkins.)						
Atkins, Sullivan H., Lynn, Mass., assignor to Eureka Axle Company, Portland, Me. Hinge.	323,018	July 28	2187	580	32	421
Atkins, Sullivan H., Lynn, Mass., assignor to Globe Thill Coupling Company, Saco, Me. Thill-coupling.	328,558	Oct. 20	1377	359	33	266
Atkinson, Charles, Chicago, Ill. Plow.	322,573	July 21	1578	{ 415 416 }	{ 32	302
Atkinson, Frederic M. (See Hayes, Martin P., assignor.)						
Atkinson, George F., San Francisco, Cal. Combined darning and mender.	330,995	June 30	2781	739	31	1586
Atkinson, John B., Kansas City, Mo. Folding wardrobe or clothes press.	322,888	July 28	2005	529	32	387
Atkinson, John W., Benton, Ark. Level.	312,548	Feb. 17	1500	409	30	642
Atkinson, Mary C., Baltimore, Md. Milk-skimmer.	333,096	Dec. 29	2674	701	33	1503
Atkinson, Philip, Chicago, Ill. Frictional electrical generator.	331,754	Dec. 8	768	{ 194 195 }	{ 33	1143
Atkinson, Thomas E., San Francisco, Cal. Apparatus for rectifying spirits and spirituous liquors by electricity.	312,948	Feb. 24	2016	550	30	745
Atkinson, William H., Brooklyn, N. Y. Device for converting motion.	310,169	Jan. 6	11	3	30	5
Atkinson, William H., assignor to Somers Bros., Brooklyn, N. Y. Machine for seaming irregular-shaped cans.	311,632	Feb. 3	229	64, 65	30	392
Atlantic and Pacific Telephone Company. (See Gillett, Webster, assignor.)						
Atlantic Dynamite Company et al. (See Penniman, Russell S., assignor.)						
Atlantic Dynamite Company et al. (See Penniman and Schrader, assignors.)						
Atterbury, John T., Bynumville, Mo. Cultivator.	317,277	May 5	473	119	31	609
Atterbury, Thomas B., Pittsburg, Pa. Manufacture of glass-shade holders.	313,399	Mar. 3	506	132	30	871
Atterbury, William T., Donnellson, Ill. Box-ventilator.	332,635	Dec. 15	2015	528	33	1370
Attwooll, Robert, Clear Lake, Iowa. Check-rein hook.	319,437	June 9	633	171	31	1175
Atwater, William, Coldwater, Mich. Chair.	324,288	Aug. 11	1204	328	32	754
Atwell, William, and R. Floeter, assignors of one-third to M. Campbell, Chatham, Ontario, Canada. Riddle for extracting cockle and wild peas from grain.	321,881	July 7	652	169	32	119
Atwood, Eliza C., Geneva, N. Y. Dust-pan.	317,433	May 5	693	175	31	648
Atwood, George F., Swanton, Vt. Tub-fastener.	330,814	Nov. 17	1843	497	33	872
Atwood, George F., Swanton, Vt., assignor of one-half to J. D. Beeman, Moriah, N. Y. Suspender-buckle.	332,177	Dec. 8	1382	357	33	1252
Atwood, George F., Swanton, Vt., assignor of one-half to J. D. Beeman, Moriah, N. Y. Wire tubular bearing for suspender-ends.	332,178	Dec. 8	1383	357	33	1252
Atwood, Horace F., and E. Wallis, Jr., Rochester, N. Y. Pen-holder.	327,642	Oct. 6	190	47	33	34
Atwood, James B., and A. W. Slate, assignors of one-third to G. Dwight, Jr., Springfield, Mass. Gage-cock.	310,490	Jan. 6	418	115	30	80
Atwood, James M., Plymouth, Mass. Sash-fastener.	330,367	Nov. 17	1273	338	33	764
Atwood, Joseph R. (See Dutton, Edward E., assignor.)						
Atwood, Lewis J., Waterbury, Conn. Lamp-burner.	324,067	Aug. 11	876	247	32	697
Atwood, Lewis J., Waterbury, Conn. Lamp-burner.	324,068	Aug. 11	897	247	32	697
Atwood, Lewis J., Waterbury, Conn. Lamp-burner.	324,069	Aug. 11	898	248	32	697
Atwood, Lewis J., Waterbury, Conn. Lamp-burner.	327,054	Sept. 29	2484	649	32	1498
Atwood, Lewis J., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Shoe-nail.	324,070	Aug. 11	898	248	32	697
Atwood, Montraville W., Clayton, N. Y. Center-board.	313,796	Mar. 10	1033	265	30	978
Atwood, Osmyn H. (See Codding and Atwood.)						
Auge, Silas S., Dayton, Ohio. Plow-clevis.	311,405	Jan. 27	1679	458	30	329
Auge, Silas S., Dayton, Ohio. Device for loosening sugar, &c.	332,179	Dec. 8	1383	357	33	1252
Augustus, Willis, Keokuk, Iowa. Packing for piston-rods.	320,525	June 23	2168	572	31	1465
Ault, Samuel, Baltimore, Md. Book-binder's pallet.	324,289	Aug. 11	1204	328	32	754
Aurand, Fred, and F. H. Sherer, Youngstown, Ohio. Sash-holder.	312,315	Feb. 17	1176	322	30	582
Austen, Frances M., Dickinson, N. Y. Boiler for heating fruit in jars.	315,377	Apr. 7	536	138	31	97
Austin, Dor, and F. H. Smith, Kansas City, Mo. Check-valve.	322,889	July 28	2006	530	32	388
Austin, Henry, Seymour Lake, Mich. Lifting-jack.	314,908	Mar. 31	2546	673	30	1300
Austin, James C., Brooklyn, N. Y. Powder-puff.	324,800	Aug. 25	1915	526	32	901
Austin, John, Chicago, Ill. Plow.	317,961	May 19	1391	{ 373 374 }	{ 31	795
Austin, John O., Bonham, Tex. Washing-machine.	325,306	Sept. 1	104	29	32	1034
Austin, Josiah, and R. Chamberlain, East Liberty, Ohio. Gate.	331,673	Dec. 1	644	159	33	1111

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Austin, Norman L., Norwalk, Conn. Grate-bar	311,633	Feb. 3	233	65	30	392
Austin, Robert E. (See Skinner, A. Frank, assignor.)						
Austin, S. Jay, and E. J. Stone, Waverly, Pa. Bag-fastener	324,913	Aug. 25	2064	565	32	929
Austin, Selden, North Haven, assignor to E. T. Beach, East Windsor, Conn. Whiffletree-hook	325,192	Aug. 25	2428	667	32	997
Austin, William H., Vacaville, Cal. Fruit-canning apparatus	313,975	Mar. 17	1293	337	30	1083
Austin, William P., New York, N. Y. Bath-tub and wash-tub combined	331,271	Dec. 1	3	1	33	1001
Austman, Paul, Louisville, Ky. Transposition key-board	330,763	Nov. 10	1148	305	33	738
Autley, John C., Rock Falls, Ill. Churn-cover	295,646	Sept. 8	575	146	32	1129
Autley, John D. (See Zeigler and Autley.)						
Automatic Fire Alarm Association. (See Prentiss and Tilden, assignors.)						
Automatic Fire Alarm and Extinguisher Company. (See Bulen, George F., assignor.)						
Automatic Safety Boiler and Engine Company. (See Sanford, Hopkins A., assignor.)						
Automatic Traction Draw Bar Company. (See Craven, Thomas C., assignor.)						
Autophone Company. (See Morris, Henry B., assignor.)						
Averell, John D. (See Booklen and Averell.)						
Averell, John D., Brooklyn, assignor of two-thirds to S. T. Dunham, New York, N. Y. Gas-pressure regulator	313,846	Mar. 17	1107	287	30	999
Averell, William W., Bath, N. Y. Sea-bridle	310,551	Jan. 13	503	139	30	103
Averill, John C., Traer, Iowa. Car-coupling	313,702	Mar. 10	898	234	30	954
Averill, John W., Wilton, Me. Hay-knife grinder	320,375	Oct. 13	1131	292	33	914
Avery, Amos P., Plain City, Ohio. Attachment for vapor-burners	312,065	Feb. 10	816	223	30	508
Avery, Aahbel S., and L. W. Osborn, Walnut, assignors of three twenty-fourths to H. S. Butler, Des Moines, Iowa. Corn-harvester	311,056	Jan. 20	1172	321	30	931
Avery, Charles E., Jacksonville, Fla. Generating carbonic-acid gas	316,863	Apr. 28	2612		31	493
Avery, Charles E., Jacksonville, Fla. Preparing logwood extract	390,526	June 23	2169		31	1465
Avery, Charles E., Boston, Mass., assignor to Avery Lactate Company, Portsmouth, N. H. Manufacture of lactates	330,815	Nov. 17	1844		33	873
Avery, James R., Louisville, Ky. Car-coupling	315,884	Apr. 14	1259	328	31	234
Avery, James R., Louisville, Ky. Car-coupling	330,284	Nov. 10	1149	{ 305 306 }	{ 33 33 }	738
Avery Lactate Company. (See Avery, Charles E., assignor.)						
Avery Lactate Company. (See Underwood, Harold G., assignor.)						
Avery Lactate Company. (See Waite, Charles N., assignor.)						
Avery, Oliver, Groton, N. Y. Reverse-gear for engines	319,051	June 2	144	39	31	1074
Avery Planter Company. (See Avery and Berrien, assignors.)						
Avery, Richard B., Washington, D. C. Apparatus for the manufacture of vaporous and gaseous fuel and illuminating gas	317,611	May 12	923	{ 236 237 }	{ 31 31 }	696
Avery, Robert H., and L. B. Berrien, assignors to Avery Planter Company, Peoria, Ill. Cultivator	329,892	Nov. 3	505	129	33	601
Avery & Sons, B. F. (See Laughlin, John L., assignor.)						
Avery, Thomas M., et al., trustees. (See Church, Duane H., assignor.) (Reissue.)						
Avery, Thomas M., et al., trustees. (See Hunter, George, assignor.)						
Avery, William, Redditch, county of Worcester, England. Manufacture of metallic needle-cases	313,797	Mar. 10	1035	266	30	978
Avery, William C., Providence, R. I. Making ingots for plated wire	328,871	Oct. 20	1782	465	33	340
Awalt, Jesse C., Steward's Mills, Tex. Boot or shoe brace	316,930	May 5	2	1	31	523
Ax, Christian, et al. (See Foster, Thomas J., assignor.)						
Ax, Frank M. (See Galentino, Allen S., assignor.)						
Axt, Frederick, Franklin, Ind. Gutter box or trough	330,324	June 16	1880	493	31	1403
Ayer, Alfred, Lake Wair, Fla. Device for handling boxes	323,844	Aug. 4	593	167	32	635
Ayer, J. Cullen, Boston, Mass. Apparatus for registering the flow of fluid and detecting waste	318,227	May 19	1738	465	31	860
Ayer, John M., Chicago, Ill. Ventilator	312,177	Feb. 10	984	{ 298 299 }	{ 30 30 }	538
Ayers, Albert, Rahway, assignor to himself and W. R. Wilson, Elizabeth, N. J. Saeh-holder	329,203	Nov. 3	507	129	33	601
Ayers, Albert, Rahway, assignor to himself and W. R. Wilson, Elizabeth, N. J. Saeh-frame holder and casing for carriages, cars, and other uses	332,180	Dec. 8	1384	357	33	1252
Ayres, Abraham, New York, N. Y. Railway-switch	311,801	Feb. 3	438	118	30	430
Ayres, Abraham, New York, N. Y. Railway-switch	317,434	May 5	604	175	31	648
Ayres, Hobart, Clinton, Iowa. Ladder	311,406	Jan. 27	1679	458	30	329
Ayres, James, et al. (See Decker, Alexander C., assignor.)						
Ayres, Jared A., Groton, assignor to Pneumatic Engine Company, Hartford, Conn. Automatic valve	327,986	Oct. 13	625	165	33	120
Ayres, John F., Alloway, N. J. Flour-bolt	310,772	Jan. 13	786	{ 212 213 }	{ 30 30 }	155
Ayres Manufacturing Company. (See Ayres, Samuel, assignor.)						
Ayres, Peter, et al. (See Decker, Alexander C., assignor.)						
Ayres, Ruben B., St. Louis, Mo. Draft-tug	314,909	Mar. 31	2547	673	30	1300
Ayres, Ruben B., St. Louis, Mo. Car-coupling link	321,473	July 7	91	24	32	18
Ayres, Ruben B., St. Louis, Mo. Window-blind	321,474	July 7	92	24	32	19
Ayres, Ruben B., St. Louis, Mo. Elevator hoisting device	330,865	Nov. 24	1914	519	33	893
Ayres, Samuel, assignor to Ayres Manufacturing Company, Worcester, Mass. Wire broiler	312,400	Mar. 3	507	132	30	871
Ayres, Samuel, assignor to Ayres Manufacturing Company, Worcester, Mass. Wire show-stand	331,222	Nov. 24	2397	648	33	961
Ayres, Samuel, assignor to Ayres Manufacturing Company, Worcester, Mass. Lock for traps	331,223	Nov. 24	2398	648	33	962
Ayrton, William E. (See Perry and Ayrton.)						
Beas, N. Robert, Lowville, N. Y. Self-heating roaster	323,622	Aug. 4	320	92	32	582
Beas, Isaac, Jr., and L. B. Benton, Milwaukee, Wis., assignors to Benton, Waldo & Co. Type-mold	326,009	Sept. 8	1047	266	32	1215
Babbitt, Joseph W., Hiawatha, Kans. Evaporator	315,896	Apr. 14	992	260	31	146
Babbitt, Joseph W., Aroma, Ind. Portable furnace	321,332	June 30	3204	654	31	1665
Babbitt, Benjamin T., New York, N. Y. Extracting glycerine from fatty matters	316,104	Apr. 21	1565	407	31	296
Babbitt, Benjamin T., New York, N. Y. Ordinance	316,105	Apr. 21	1566	407	31	297
Babbitt, Benjamin T., New York, N. Y. Apparatus for boiling soap under pressure	330,663	Nov. 17	1643	442	33	836
Babbitt, Charles E., Cincinnati, Ohio. Paper-weight and guide-rule	321,673	July 7	351	93	32	66
Babbitt, S. William, Meriden, Conn. Butter-dish	330,189	Nov. 10	1038	271	33	710
Babbott, William M. (See Banker and Roberts, assignors.)						
Babbott, William M., J. H. Roberts, and C. Banker, said Banker assignor to said Babbott and J. S. McMasters, Pittsburg, Pa. Elevator-bucket	317,278	May 5	474	119	31	610
Babbott, William M., and J. H. Roberts, Pittsburg, Pa. Elevator	320,745	June 23	2446	649	31	1519

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Babcock, Charles, Troy, N. Y. Combined collar-stud and necktie-holder	320,452	June 23	2077	547	31	1449
Babcock, D. Marshall, Worcester, Mass. Tricycle	322,406	July 21	1342	349	32	261
Babcock, E. Stillman, assignor to himself and H. F. Clark, Milton, Wis. Pipe holder and lifter	328,174	Oct. 13	871	226	33	165
Babcock, Erskine L. (See Long and Babcock.)						
Babcock, Erskine L., assignor to Falls Rivet Company, Cuyahoga Falls, Ohio. Pulley	313,467	Mar. 10	603	156	30	697
Babcock, Frank G., Dryden, N. Y. Feeding mechanism for wool-carding machines	320,205	June 16	1681	447 448	31	1370
Babcock, George H., Plainfield, N. J., assignor to Babcock & Wilcox Company. Feed-water heater	314,415	Mar. 24	1858	495	30	1149
Babcock, George H., Plainfield, N. J., assignor to Babcock & Wilcox Company. Steam-boiler	314,416	Mar. 24	1860	495	30	1150
Babcock, George H., Plainfield, N. J., and L. Pine, South Bend, Ind., assignors to Babcock & Wilcox Company, of New Jersey. Water heater and purifier	314,414	Mar. 24	1855	494	30	1149
Babcock, Henry D., Leonardville, N. Y. Horse hay-fork	328,997	Oct. 27	1988	517	33	384
Babcock, Holland C., assignor of one-half to P. L. B., and C. A. Jewell, Hartford, Conn. Harness pad or lining	317,073	May 5	187	47	31	557
Babcock, Joseph E. (See Hill and Babcock.)						
Babcock, Paul, Jr., Montclair, N. J. Lamp	310,635	Jan. 13	607	167	30	122
Babcock, Paul, Jr., Montclair, N. J. Closing cans	321,568	July 7	221	59	32	44
Babcock, Sylvester P., assignor of one-fourth to J. R. Haight, Adrian, Mich. Brick-machine	327,376	Sept. 29	2917	761	32	1574
Babcock & Wilcox Company. (See Babcock, George H., assignor.)						
Babcock & Wilcox Company. (See Babcock and Pine, assignors.)						
Babcock & Wilcox Company. (See Hazelton, Milton W., assignor.)						
Babcock & Wilcox Company. (See Knight and Thode, assignors.)						
Babcock & Wilcox Company. (See Pratt, Nathaniel W., assignor.)						
Babcock & Wilcox Company. (See Pratt and Palmer, assignors.)						
Babcock, William H., Washington, D. C. Suspension device for lamps	332,695	Dec. 22	2121	559	33	1395
Babcock, William L. (See Herrick and Babcock.)						
Babington, Joseph P., Shelby, N. C. Tympan-sheet and compound for same	312,694	Feb. 24	1681		30	685
Babson, George J. (See Pease and Babson.)						
Bach, Andrew E., Ottawa, Ill. Railway-switch	313,798	Mar. 10	1036	266	30	978
Bach, Fred, Carlton, Wis. Device for measuring liquids	320,437	Nov. 3	2	1	33	505
Bachelder, Cyrus P., Pawtucket, R. I. Burglar-alarm	329,253	Oct. 27	2356	610	33	451
Bachelor, Frank A., et al. (See Mulberry, James C., assignor.)						
Bachman, Joseph A. (See Clark and Bachman.)						
Bachtell, Lewis H. (See Griffin and Bachtell.)						
Bachus, James W., New Windsor, Ill. Window-screen	319,168	June 2	284	75	31	1100
Back, John R. (See Reed and Back.)						
Backus, Samuel R., Toledo, Ohio. Grain cleaner and grader	323,099	July 28	2306	609	32	443
Bacmeister, Theodore, Tonion, Ill. Conduit-pipe	310,773	Jan. 13	782	213	30	155
Bacon, Charlotte A., Charlton Depot, Mass. Detachable spout for milk-pails	330,003	Nov. 10	789	202	33	659
Bacon, Ebenezer S. (See Bacon and Secord.)						
Bacon, Ebenezer S. and J. H., Detroit, Mich. Lamp-extinguisher	315,217	Apr. 7	340	82	31	61
Bacon, Edward H. (See McIntosh, Bacon, and Vail.)						
Bacon, Frank E., Gorham, Me. Shipping-tag	316,721	Apr. 28	2411	622	31	457
Bacon, Henry S., Milford, Mass. Opera-chair	325,149	Aug. 25	2368	652	32	966
Bacon, Henry S., Milford, assignor to American Metallic Fastening Association, Boston, Mass. Machine for making peg-wire	319,771	June 9	1078	286 287	31	1255
Bacon, Henry S., Milford, assignor to American Metallic Fastening Association, Boston, Mass. Machine for stripping metal	319,772	June 9	1080	287	31	1255
Bacon, Henry S., Milford, assignor to American Metallic Fastening Association, Boston, Mass. Boot and shoe nailing machine	319,773	June 9	1081	287	31	1256
Bacon, Henry S., Milford, assignor to American Metallic Fastening Association, Boston, Mass. Shoe-nailing machine	319,875	June 9	1223	325 326	31	1281
Bacon, Jerome, Oshkosh, Wis. Mechanical movement	315,378	Apr. 7	537	138	31	97
Bacon, Joseph H. (See Bacon, Ebenezer S. and J. H.)						
Bacon, Joseph H. and E. S., and V. Secord, Detroit, Mich. Automatic waste-cock	330,664	Nov. 17	1645	442	33	836
Bacon, Joseph T. (See Bisbee and Bacon.)						
Bacon, Murray, assignor to Novelty Electric Company, Philadelphia, Pa. Electro-magnetic toy swing	312,178	Feb. 10	986	269	30	538
Bacon, Murray, assignor to Novelty Electric Company, Philadelphia, Pa. Electrical indicator	324,635	Aug. 18	1687	465	32	851
Baden, Thomas E., assignor of one-half to H. O. Towles and B. F. Gny, Washington, D. C. Bill-file	321,333	June 30	3205	854	31	1666
Badger, Benjamin F., Charlestown, Mass. Razor-strop	312,603	Feb. 24	1569	429	30	665
Badger, Gardner F., Brooklyn, N. Y. Apparatus for dredging	329,428	Nov. 3	3	1	33	505
Badger, George A., Quincy, assignor to J. H. Lakin, Boston, Mass. Store-service apparatus	324,210	Aug. 11	1105	298	32	736
Badger, George A., and W. F. Lakin, Quincy, assignors to J. H. Lakin, Boston, Mass. Cash and parcel carrier	314,558	Mar. 31	2060	550	30	1212
Badger, George M., Quitman, Ga. Cotton chopper and cultivator	310,636	Jan. 13	608	167 168	30	122
Badger, Jonathan, New York, N. Y. Programme and hat holder	323,773	Aug. 4	512	143	32	619
Badger, Lewis D., Lake Village, assignor to American Rock and Track Lifter Company, Gifford, N. H. Track-lifter	328,376	Oct. 13	1123	292	33	214
Badgley, Howard G., New York, N. Y. Sewer-trap and cesspool	325,231	Sept. 1	2	1	32	1015
Badia, Joseph S., Philadelphia, Pa. Apparatus for operating car-brakes	325,474	Sept. 1	344	84	32	1081
Badische Anilin and Soda Fabrik. (See Kern and Müller, assignors.)						
Badische Anilin and Soda Fabrik. (See Ziegler, Henry, assignor.)						
Baer, John N., and J. S. Edwards, Philadelphia, Pa. Ventilator for show-windows	323,387	Aug. 4	7	2	32	524
Baer, Michael, Brillion, Wis. Washing-machine	326,378	Sept. 15	1553	403	32	1316
Bagaley, Ralph. (See Bole, William A., assignor.)						
Bagaley, Ralph, assignor of one-half to W. A. Bole, Pittsburg, Pa. Pipe-coupling	332,035	Dec. 8	1174	307	33	1216
Bagg, Albert W., Detroit, Mich. Vehicle-pole tip	326,379	Sept. 15	1554	404	32	1317
Baggaley, Robert J., Nottingham, England. Composition of material for damp-proof socks or soles for boots, &c.	315,885	Apr. 14	1261		31	235
Baggs, James T., Bridgeport, Ohio. Belt-gearing	310,359	Jan. 6	260	74	30	52
Bagnall & Loud Block Company. (See Ferrall, Thomas R., assignor.)						
Bagnall & Loud Manufacturing Company. (See Ferrall, Thomas R., assignor.)						
Bahre, Wilhelm, Berlin, Germany. Door-check	320,527	June 23	2170	572 573	31	1465
Bailey, Alfred M., assignor to Metropolitan Manufacturing Company, Middlefield, Conn. Clothes-wringer	318,250	May 26	2578	686	31	1019

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Bailey, Amos M., assignor to Bailey Canning Company, Middle Branch, Ohio. Purifying maple-sirup	323,254	July 28	2515	32	482
Bailey, Andrew J. (See Ethridge, Martin V. B., assignor.)						
Bailey, Augustus O. (See Ingalls, Wellington, assignor.)						
Bailey Canning Company. (See Bailey, Amos M., assignor.)						
Bailey, Charles A., Middletown, Conn. Toy	315,379	Apr. 7	538	138	31	98
Bailey, Charles A., Middletown, Conn. Toy	315,380	Apr. 7	539	139	31	98
Bailey, Charles E., Springfield, Mass. Straightening and annealing gun-barrels	320,613	June 23	2229	.....	31	1488
Bailey, Clem., Kingston, N. C. Automatic fan	314,775	Mar. 31	2369	627	30	1268
Bailey, Edward L. (See Brown and Bailey.)						
Bailey, Ellene A., St. Charles, Mo. Powder-puff	323,255	July 28	2515	688	32	482
Bailey, Ephraim, West Newbury, Mass. Heel-jack	311,098	Jan. 20	1234	338	30	242
Bailey, Ephraim, West Newbury, assignor to himself and T. S. Bailey, Haverhill, Mass. Wash-board	328,175	Oct. 13	872	226	33	165
Bailey, Everett E. and M. E. Buckingham, Brooklyn, N. Y., assignors to H. E. Bucking-						
ham, Deep River, Conn. Spring bed-bottom	329,976	Nov. 10	621	158	33	628
Bailey, Ezra B., Windsor Locks, Conn. Lathe-chuck	316,931	May 5	2	1	31	523
Bailey, Farrell & Co. (See Jarboe, Walter S., assignor.)						
Bailey, Fred A., assignor to Oakland Roller Skate Company, Oakland, Me. Roller-skate	332,181	Dec. 8	1385	358	33	1253
Bailey, George L., et al. (See Willmore, William C., assignor.)						
Bailey, Gilbert L., Portland, Me. Net-staff	315,107	Apr. 7	162	39	31	30
Bailey, Gilbert L., Portland, Me. Dumb-bell	318,078	May 19	1545	414	31	823
Bailey, Harry J., Pittsburg, Pa. Water-closet	327,219	Sept. 29	2707	{ 704 705 }	32	1539
Bailey, Henry L. (See O'Malley, Patrick A., assignor.)						
Bailey, Henry L., Brooklyn, assignor to Telegraphic Time Company, New York, N. Y. Electric synchronizing device for clock-pendulums	332,967	Dec. 22	2510	664	33	1498
Bailey, Hezekiah, St. Thomas, Ontario, Canada. Grain-separator	331,408	Dec. 1	308	82	33	1053
Bailey, Howard S., Denver, Colo. Miner's hoist	322,516	July 21	1501	{ 304 305 }	32	280
Bailey, Howard S., Denver, Colo. Anti-friction bearing	328,176	Oct. 13	873	227	33	165
Bailey, James H., Leading Creek, W. Va. Corn-house	331,755	Dec. 8	772	105	33	1144
Bailey, James M., Pittsburg, Pa. Pine-coupling	324,911	Aug. 11	1106	299	32	736
Bailey, James M. and R. A. Carter, Pittsburg, Pa. Flanging-machine	318,274	Oct. 13	990	258	33	187
Bailey, John A., Detroit, Mich. Apparatus for reducing the ores of precious metals	315,886	Apr. 14	1261	322	31	925
Bailey, John W. (See Ryder, Edwin P., assignor.)						
Bailey, John W., Denver, Colo. Ore pulverizing and amalgamating mill	321,937	July 14	731	191	32	141
Bailey, John W., Denver, Colo. Ore-concentrating mill	329,604	Nov. 3	361	92	33	573
Bailey, Joseph, and T. Rebholz, Troy, Ohio. Wheeled scraper	317,875	May 5	475	120	31	610
Bailey, Joseph, and T. Rebholz, Troy, Ohio. Wheeled scraper	317,260	May 5	476	120	31	610
Bailey, Joseph A. (See Workman, Thomas M., assignor.)						
Bailey, Leonard, Hartford, Conn. Table	315,108	Apr. 7	163	39	31	30
Bailey, Leonard, Hartford, Conn. Blotter-bath	322,534	Oct. 20	1494	328	33	226
Bailey, Lewis C., and W. S. Alexander, McConnellsburg, Pa. Automatic water-gage	319,052	June 2	145	39	31	1074
Bailey, Richard A., Providence, R. I. Electro-magnetic cut-off for engines	331,674	Dec. 1	645	{ 159 160 }	33	1111
Bailey, Selden A., New York, N. Y. Vehicle-spring	322,100	Oct. 13	774	202	33	147
Bailey, Thomas S. (See Bailey, Ephraim, assignor.)						
Bailey, William, New Hartford, N. Y. Whiffletree-circle	322,998	Oct. 27	1989	517	33	385
Ballio, John, Salem, Ohio. Brick-machine	332,474	Dec. 15	1792	{ 467 468 }	33	1330
Baillie, John D., assignor of one-half to J. R. Musson, Mogadore, Ohio. Lifting-jack	310,973	Jan. 20	1060	287	30	209
Baily, George D., Spiceland, Ind. Speculum	325,647	Sept. 8	576	146	32	1130
Baily, George S. (See Carter, William C., assignor.)						
Baily, John. (See McIntyre, Elmer E., assignor.)						
Bains, John, Pluma, Ohio. Shelving-bracket	327,129	Sept. 20	2592	675	32	1516
Bair, Francis L., East York, assignor to himself, and D. W. Detwiler, Lower Windsor, Pa. Railway-gate	320,113	June 16	1568	414	31	1349
Bair, Henry C. (See Killip, John, assignor.)						
Baird, Frederick C. (See Prindle and Baird.)						
Baird, James J. (See Oviatt, Solomon E., assignor.)						
Baird, James S. (See Henry, Frank R., assignor.)						
Baird, John T., Olney, Ill. Cartridge-shell loader	317,484	May 12	759	{ 193 194 }	31	669
Baird, Robert H. (See Mallory, Lewis A., assignor.)						
Baird, Samuel J., Covington, Ky., assignor to Eureka Manufacturing Company, Cincinnati, Ohio. Button-hole attachment for sewing machines	320,528	June 23	2172	573	31	1465
Baird, William C., New York, assignor to Copeland Manufacturing Company, New York and Syracuse, N. Y. Railway-gate	326,828	Sept. 22	2181	569	32	1437
Baker, Allen S., Evansville, Wis. Millstone-dress	330,865	Nov. 17	1646	{ 442 443 }	33	836
Baker, Alonzo A., et al. (See Hiner, Daniel B., assignor.)						
Baker, Arthur M., New York, N. Y. Safety attachment for elevators	311,279	Jan. 27	1511	412	30	299
Baker, Bernard N. (See Price, George W., assignor.)						
Baker, C. J. (See Smith, Clement, assignor.)						
Baker, Caleb J., Chicago, Ill. Folding cot	327,055	Sept. 29	2485	649	32	1498
Baker, Charles, Minneapolis, Minn. Bridle-bit	325,232	Sept. 1	4	1	32	1015
Baker, Charles F. (See Gardner, Sylvanus A., assignor.)						
Baker, Charles H., et al. (See Bestor, Francis L., assignor.)						
Baker, Charles H., assignor of two-thirds to F. L. Bestor, Knoxville, and T. C. Cunningham, Signonrey, Iowa. Barb-wire machine	323,490	Aug. 4	136	40	32	547
Baker, Charles H., and F. L. Bestor, Knoxville, assignors to themselves and T. C. Cunningham, Signonrey, Iowa. Barb-wire machine	323,487	Aug. 4	131	38, 39	32	546
Baker, Charles H., and F. L. Bestor, Knoxville, assignors to themselves and T. C. Cunningham, Signonrey, Iowa. Barb-wire machine	323,488	Aug. 4	133	39	32	546
Baker, Charles H., and F. L. Bestor, Knoxville, assignors to themselves and T. C. Cunningham, Signonrey, Iowa. Barb-wire machine	323,489	Aug. 4	134	40	32	547
Baker, Christian E., Chicago, Ill. Propeller for vessels	328,559	Oct. 20	1378	359	33	266
Baker, Clayton L., et al. (See Alexander, James H., assignor.)						
Baker, Curtis Miller & Co., New York, N. Y. Potato digger and coverer	325,475	Sept. 1	350	85	32	1062
Baker, David A., Philadelphia, Pa. Metallic sign	333,274	Dec. 29	2924	765	33	1547
Baker, David P., Shambaugh, Iowa. Fence-post	323,256	July 28	2516	688	32	482
Baker, Delos R., Ludlow, Ky. Machine for the reduction of solids	328,635	Oct. 20	1495	389	33	226
Baker, Edmund K., Springfield, Mass. Cap for sheet-metal paint-cans	323,623	Aug. 4	321	92	32	582
Baker, Ethridge, Boston, Mass., assignor to National Therm Motor Company, Nashua, N. H. Apparatus for burning hydrocarbons	325,376	Sept. 1	203	52	32	1053

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. & G.	Vol.	Page.
Baker, Elijah E., assignor of one-half to M. Sharp, Providence, R. I. Drawing mechanism for spinning and twisting machines, &c.	336,538	Sept. 22	1750	457	32	1361
Baker, Frank E., Akron, Ohio. Shawl-strap handle	314,509	Mar. 24	1894	531	30	1172
Baker, Frank M., Birmingham, Conn. Button-fastening	313,274	Mar. 3	343	85	30	839
Baker, Frank M., Birmingham, Conn. Button and fastening therefor	324,212	Aug. 11	1107	299	32	736
Baker, Franklin P., Chelsea, Mass. Polo-goal	331,756	Dec. 8	773	195	33	1144
Baker, G. Henry, Morenci, Mich. Fabric-turfing implement	333,379	Dec. 29	3059	798	33	1571
Baker, George L., Cabery, Ill. Scraper attachment for cultivators	310,974	Jan. 20	1061	288	30	909
Baker, George M., New Britain, Conn. Sash-fastening	316,219	Apr. 21	1713	450	31	324
Baker, George W., Cleveland, Ohio. Roller-skate	326,539	Sept. 22	1751	457	32	1361
Baker, George W., Cleveland, Ohio. Roller-skate	326,540	Sept. 23	1752	457	32	1361
Baker, George W., Cleveland, Ohio. Skate	330,543	Nov. 17	1500	401	33	806
Baker, Henry, Catskill, N. Y. Machine for stripping printers' rollers	319,544	June 9	779	207	31	1201
Baker, Henry B., Hulla, Ohio. Steam-boiler cleaner	325,476	Sept. 1	351	85	32	1062
Baker, Henry B., Hulla, Ohio. Steam-boiler cleaner	332,036	Dec. 8	1174	307	33	1217
Baker, Henry M. (See Vandercook, Smith, and Baker.)						
Baker, Isaac B., Port Allegheny, Pa. Machine for dressing millstones	314,776	Mar. 31	2370	627 } 628	30	1209
Baker, Jackson R., Jersey City, N. J. Car-brake	314,417	Mar. 24	1861	495	30	1150
Baker, Jackson R., and J. Craig, Jersey City, N. J. Slate-pencil sharpener	330,666	Nov. 17	1648	443	33	837
Baker, Jacob M., Boston, Mass. Material for the decoration of the interior walls and ceilings of buildings	331,469	Dec. 1	309	83	33	1053
Baker, Jacob W., Uxbridge, Ontario, Canada. Car-coupling	311,711	Feb. 3	326	90	30	410
Baker, James B., Aberdeen, Md. Machine for silking green corn	316,564	Apr. 28	2613	681	31	493
Baker, James E., Madison, Wis. Balanced slide-valve	315,459	Apr. 14	665	173	31	125
Baker, James W., Providence, R. I. Manger	316,435	Apr. 28	2018	529	31	384
Baker, Jay, et al. (See Plumb, Fawcett, assignor.)						
Baker, John, Muscatine, Iowa. Device for hinging and supporting doors of process-kettles	319,189	June 2	285	76	31	1100
Baker, John, Sedalia, Mo. Means for supplying water	326,192	Sept. 15	1300	336	32	1289
Baker, John, Salt Lake City, Utah Ter. Oil-filter	326,872	Oct. 20	1784	465	33	341
Baker, John A. (See Reicheneker, William C., assignor.)						
Baker, John C. (See Martin and Baker.)						
Baker, John E., New York, N. Y. Railway-signal	323,388	Aug. 4	8	3	32	524
Baker, John J. (See Meltzer and Baker.)						
Baker, John M., Allentown, Pa. Rolling-mill	323,100	July 28	2307	609 } 610	32	443
Baker, John T., Lee's Summit, Mo. Adjusting device for harvesters	328,273	Oct. 13	987	257	33	187
Baker, John W., Philadelphia, Pa. Regenerative gas-stove	319,438	June 9	633	171 } 172	31	1175
Baker, John W., Philadelphia, Pa. Gas-stove	326,069	Sept. 15	1157	295 } 296	32	1243
Baker, John W., Bunker Hill, Ind. Fire-door for furnaces	329,693	Nov. 3	360	92	33	573
Baker Lime Company. (See Hunt, Joshua, assignor.)						
Baker, Maskin C., New York, N. Y. Engine-valve	319,661	June 9	936	248	31	1229
Baker, Miffin J., Philadelphia, Pa. Device for sewing books, pamphlets, &c.	329,254	Oct. 27	2358	610	33	451
Baker, Patrick, Toronto, Ontario, Canada. Waistcoat	316,220	Apr. 21	1713	450	31	324
Baker, Pheneas T. (See Martin and Baker.)						
Baker, Pratt & Co. (See Brown, John M., assignor.)						
Baker, Rufus B., and G. H. Straw, Claremont, N. H. Machine for uniting knit fabrics	317,702	May 12	1036	269	31	790
Baker, Sanford J., Oakland, Me. Lawn-mower	327,987	Oct. 13	626	165	33	120
Baker, Thomas C., Ashland, Mo. Cultivator	325,477	Sept. 1	351	85	32	1062
Baker, William C., New York, N. Y. Car-heater	331,367	Dec. 1	157	40	33	1026
Baker, William N., Geneseo, N. Y. Composition for plasters	316,939	May 5	3		31	523
Baker, William R., Chicago, Ill. Harvester-reel	324,290	Aug. 11	1206	328	32	755
Baker, William R., Chicago, Ill. Harvester	324,744	Aug. 18	1820	503	32	877
Baker, William R., Chicago, Ill. Harvester	324,745	Aug. 18	1822	503	32	878
Baker, William R., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Cord-holder for grain-binders	324,353	Aug. 18	1286	352	32	780
Baker, William R., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Harvesting-machine	324,354	Aug. 18	1288	353	32	780
Baker, William S. G., Baltimore, Md. Refrigerator	310,975	Jan. 20	1061	288	30	209
Baker, William T., A. S. Lovett, and C. D. Van Etten, assignors to Erie Embalming Company, Erie, Pa. Apparatus for embalming	317,703	May 12	1037	269 } 270	31	790
Bakewell, Paul. (See Ramel and Dean, assignors.)						
Balch, Andrew J., assignor of two-thirds to L. P. Lester and G. W. Getrost, Halstead, Kans. Stook-waterer	326,629	Sept. 22	2183	569	32	1437
Balch, Henry B., and F. Burt, assignors of one-third to H. L. Bishop, Kalamazoo, Mich. Grain-cleaning mill	316,722	Apr. 28	2412	628	31	457
Balder, William, Chicago, assignor of one-half to G. H. Webster, Cook County, Ill. Apparatus for preserving meats, &c.	322,986	Dec. 22	2513	664	33	1468
Baldt, Frederick, Chester, Pa. Car coupling	316,323	Apr. 21	1847	488	31	347
Baldwin, Alexander P., Newark, N. J. Bridle-bit	326,703	Sept. 22	1977	519	32	1402
Baldwin, Charles W., assignor to himself, A. A. Webb, Denver, and A. J. Smith, Central City, Colo. Power-hoist	313,156	Mar. 3	158	39	30	806
Baldwin, Cyrus W., Yonkers, N. Y., assignor to W. E. Hale, Chicago, Ill. Gas-engine	325,377	Sept. 1	906	52	32	1053
Baldwin, Cyrus W., Yonkers, N. Y., assignor to W. E. Hale, Chicago, Ill. Gas-engine	325,378	Sept. 1	908	53, 54	32	1053
Baldwin, Cyrus W., Yonkers, N. Y., assignor to W. E. Hale, Chicago, Ill. Gas-engine	325,379	Sept. 1	912	54, 55	32	1055
Baldwin, Cyrus W., Yonkers, N. Y., assignor to W. E. Hale, Chicago, Ill. Gas-engine	325,380	Sept. 1	215	55	32	1055
Baldwin, Eben A., assignor to Davis & Furber Machine Company, North Andover, Mass. Spinning-mule	331,272	Dec. 1	4	2	33	1001
Baldwin, Eben A., assignor to Davis & Furber Machine Company, North Andover, Mass. Mule for spinning	331,368	Dec. 1	158	40, 41	33	1026
Baldwin, Eben R., Cortland, N. Y. Rotary motor	330,194	Nov. 10	1059	271	33	710
Baldwin, Eli, New York, N. Y. Fare-recorder	323,553	Aug. 4	226	67	32	564
Baldwin, Elizabeth M., administratrix. (See Baldwin, Ruel S.)						
Baldwin, Frank, New York, N. Y. Scarf	324,802	Aug. 25	1916	527	32	901
Baldwin, Fred C. (See Freese and Baldwin.)						
Baldwin, George, Willimantic, Conn. Thread-guide and tension-regulator for loom-shuttles	330,544	Nov. 17	1501	401	33	806
Baldwin, George E., Philadelphia, Pa. Railway	329,429	Nov. 3	5	1	33	506
Baldwin, James, Manchester, N. H. Loom-shuttle	323,554	Aug. 4	228	67	32	564
Baldwin, James H. (See Watson, Charles H., assignor.)						
Baldwin, James S., assignor to L. Harper, Newark, N. J. Toy gravity-railway or parlor-sleigh	310,929	Jan. 20	969	269	30	126

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Baldwin, Jeannette D., Moore's Hill, Ind. Back for piano-stools	313,642	Mar. 10	819	214	30	939
Baldwin, Joel C., Oakland, Cal. Fruit-jar fastener	321,475	July 7	92	25	32	19
Baldwin, John R., Montgomery, Ala. Flooring-board	329,616	Nov. 3	262	68	33	555
Baldwin, Joseph F. (See Free and Baldwin.)						
Baldwin, Judson A. (See Linsley and Baldwin.)						
Baldwin & Lamkin. (See Whittlesey, Samuel F., assignor.)						
Baldwin, Luther C., Manchester, N. H. Apparatus for painting bobbins	331,757	Dec. 8	774	196	33	1144
Baldwin, Luther C., assignor to J. C. Thurston, Manchester, N. H. Hose-reel	321,172	June 30	3011	797	31	1629
Baldwin, Mortimer S. (See Sweeney, John M., assignor.)						
Baldwin, Myron T., Chicago, Ill. Photograph-burnishing machine	311,463	Feb. 3	4	2	30	349
Baldwin, Myron T., La Grange, Ill. Infant's posing-chair	321,076	June 30	2291	769	31	1607
Baldwin, Nathan A. (See Tillou, Walter G., assignor.)						
Baldwin, Ransom G., Oskaloosa, Iowa. Agitator for washing-machines	326,830	Sept. 22	2183	570	32	1437
Baldwin, Ruel S., deceased; E. M. Baldwin, Sparta, Wis., administratrix. Swinging chair convertible into a swinging hammock	326,619	Sept. 22	1864	488	32	1380
Baldwin, William M., Jr., Newark, Ohio. Rectal speculum	321,324	June 30	3206	855	31	1666
Bale, George T., Tama City, Iowa. Portable fence	324,801	Aug. 25	1915	{ 526 627 }	32	901
Bales, Thomas M., and C. P. Riley, Connersville, Ind. Fanning-mill	321,270	June 30	3132	834	31	1651
Ball, Albert, Claremont, N. H. Diamond-drill-core catch or retainer	314,777	Mar. 31	2372	628	30	1269
Ball, Albert, assignor to Sullivan Machine Company, Claremont, N. H. Core breaker and lifter for annular rock-drills	315,887	Apr. 14	1264	329	31	235
Ball, Albert, assignor to Sullivan Machine Company, Claremont, N. H. Core breaker and lifter for annular rock-drills	315,888	Apr. 14	1267	329	31	236
Ball, Albert, assignor to Sullivan Machine Company, Claremont, N. H. Core breaker and lifter for annular rock-drills	315,889	Apr. 14	1268	330	31	236
Ball, Albert, assignor to Sullivan Machine Company, Claremont, N. H. Prospecting or well-boring tube	316,865	Apr. 23	2614	681	31	493
Ball, Albert, assignor to Sullivan Machine Company, Claremont, N. H. Safety-jack for holding drill-rods	326,380	Sept. 15	1555	404	32	1317
Ball and Socket Fastener Company. (See Mead, Albert G., assignor.)						
Ball, Ansel, assignor to A. S. Davis, Seneca Falls, N. Y. Scroll-sawing machine	310,491	Jan. 6	419	{ 115 116 }	30	81
Ball, Ansel, assignor to A. S. Davis, Seneca Falls, N. Y. Treadle	320,996	June 30	2762	739	31	1587
Ball, Charles, and G. Lispenard, assignors to Ball & Jewell, Brooklyn, N. Y. Damper-regulator	310,976	Jan. 20	1063	262	30	210
Ball, Charles A. (See Groesbeck, Ball, and Sterling.)						
Ball, Clinton M. (See Powers and Ball.)						
Ball, Clinton M., Troy, N. Y. Electric-arc lamp	314,418	Mar. 24	1802	{ 495 496 }	30	1151
Ball, Clinton M., assignor to J. A. Powers, Troy, N. Y. Dynamo-electric machine	329,118	Oct. 27	2167	561	33	415
Ball, Frederick W. (See Brooks, Ball, and Brooks.)						
Ball, Harry. (See Willets and Ball.)						
Ball, James, Holyoke, Mass. Machine for cutting sheets with oblique edges from webs of paper	311,559	Feb. 3	139	39	30	375
Ball, James A. (See Moore and Ball.)						
Ball, James A., Thornstown, Ind. Hay-stacker	315,109	Apr. 7	163	40	31	30
Ball & Jewell. (See Ball and Lispenard, assignors.)						
Ball, Lorenzo D., and J. T. Bender, Canton, Ohio. Rolling colter	331,935	Dec. 8	1096	267	33	1191
Ball, Paige B., et al. (See Collier, Charles W. and W. C., assignors.)						
Ball, Phinehas, Worcester, and J. R. Smith, Springfield, assignors to Union Water Meter Company, Worcester, Mass. Pressure-regulator	329,119	Oct. 27	2169	562	33	415
Ball, William H., Springfield, assignor of one-half to E. Sachs and D. Pruden, Dayton, Ohio. Frame for transparencies	315,554	Apr. 21	1415	367	31	969
Ballantine, Alexander T., assignor to E. B. Ballantine, Geneva, Ohio. Compressor for ice-making apparatus	313,045	Mar. 3	7	2	30	780
Ballantine, Alexander T., assignor to E. B. Ballantine, Geneva, Ohio. Protecting shafts from heat	317,435	May 5	694	175	31	648
Ballantine, Alexander T., assignor to E. B. Ballantine, Geneva, Ohio. Stuffing-box	317,962	May 19	1393	374	31	795
Ballantine, Alexander T., assignor to E. B. Ballantine, Geneva, Ohio. Valve for compressors for ice-making apparatus	317,963	May 19	1394	374	31	796
Ballantine, Ella B. (See Ballantine, Alexander T., assignor.)						
Ballard, Alonzo W., Buckhorn, Va. Machine for separating peanuts	311,712	Feb. 3	327	90	30	410
Ballard, Charles J. E., et al. (See Norton, Winthrop, assignor.)						
Ballard, Clarence W. (See Thompson, Jesse B., assignor.)						
Ballard, David L., assignor to Hendey Machine Company, Torrington, Conn. Reversing-gear for shaping machines	310,774	Jan. 13	788	213	30	155
Ballard, George M. (See Wayland, James, assignor.)						
Ballard, James, Lapeer, Mich. Washing-machine	315,218	Apr. 7	340	83	31	61
Ballard, Stephen, Winchester, Ind. Cider-press	311,713	Feb. 3	328	91	30	411
Ballmann, J. Henry, Indianapolis, Ind. Scaffold-bracket	328,999	Oct. 27	1991	518	33	385
Ballou, George B., Milford, Mass. Automatic ball-lock	330,816	Nov. 17	1845	497	33	873
Balm, Julius A., and A. Demeny, Canton, Ohio. Extension-ladder	316,516	Apr. 22	2123	558	31	403
Baloche, Arsène, and A. Krahness, Valparaiso, Chili. Hydraulic siphon-motor	317,074	May 5	188	47	31	557
Baloun, Ignatius, Canton, Ohio. Tug-fastener	328,449	Oct. 20	1237	321	33	241
Balson, Harry L., De Soto, Mo. Brick-machine	312,066	Feb. 10	817	223	30	508
Baltimore Lime Paint Company. (See Adams and Polk, assignors.)						
Baltimore & Ohio Telegraph Company. (See Gardanier, George W., assignor.)						
Baltimore & Ohio Telegraph Company. (See Larish, Joseph W., assignor.)						
Baltimore & Ohio Telegraph Company. (See Van Hoevenbergh, Henry, assignor.)						
Baltzell, Charles, Altoona, Pa. Cash-carrier	317,281	May 5	477	{ 120 121 }	31	610
Baltzley, Edwin, Washington, D. C. Culinary boiler	332,375	Dec. 15	1655	434	33	1306
Baltzy, Stephen. (See Harris and Baltzy.)						
Balz, George, et al. (See Ackermann, George, assignor.)						
Balz, John, assignor to T. Hooker, Syracuse, N. Y. Tool-handle	333,192	Dec. 29	2906	734	33	1525
Bamberger, Gabriel, et al. (See Looser, Lazarus, assignor.)						
Bamboo and Brass Manufacturing Company. (See Mazergue, George, assignor.)						
Bancroft, Fredric J., Pawtucket, R. I. Clamp	324,803	Aug. 25	1917	527	32	901
Bancroft, J. Sellers, assignor to W. Sellers, Philadelphia, Pa. Injector	322,342	July 14	1247	327	32	237
Bancroft, J. Sellers, assignor to W. Sellers, Philadelphia, Pa. Injector	331,178	Nov. 24	3225	630	33	969
Bancroft, John S., assignor to W. Sellers, Philadelphia, Pa. Machinery for transmitting motion	323,019	July 28	2189	580	32	421
Bancroft, Melvin, assignor to W. B. Quigley & Co., Whitestown, N. Y. Fastening device for a series of drawers	316,596	Apr. 28	2222	585	31	422

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Bancroft, Samuel, Jr., Rockford, Del. Fabric for window-shades, book-covers, &c.	313,709	Mar. 10	1037	30	978
Bandel, Wilhelm, deceased; J. L. Norris, Washington, D. C., administrator, and assignor to Heberlein Self Acting Railway Brake Company, (limited,) London, England. Car-brake	326,883	Sept. 22	2256	568	32	1450
Bangs, Andrew. (See Beale and Bangs.)	314,910	Mar. 31	2548	674	30	1300
Bangs, Charles H., Boston, Mass. Bottle-sheath	328,450	Oct. 20	1238	321	33	241
Bangs, David E., Medford, Mass. Valve for vapor-burners	312,067	Feb. 10	818	223 224	30	508
Bangs, Oliver, New Haven, Conn. Street-railway switch	317,282	May 5	479	121	31	611
Bangs, Oliver, assignor of one-half to W. H. Andrews, New Haven, Conn. Car-coupling	318,228	May 19	1741	466	31	861
Bangs, Winfield S., Alma, Mich. Swinging gate	311,714	Feb. 3	329	91	30	411
Banker, Christ. (See Babbott, Roberts, and Banker.)						
Banker, Christ, and J. H. Roberts; said Banker assignor to W. M. Babbott, Pittsburg, Pa. Elevator-bucket	325,478	Sept. 1	353	86	32	1082
Banker, Christ, and J. H. Roberts, assignors to W. M. Babbott, Pittsburg, Pa. Machine for making elevator-buckets	331,109	Nov. 24	2229	605 606	33	952
Banks, George, Oakfield, Mich. Har-binder	321,173	June 30	3012	796	31	1629
Banks, George C. (See Johnstone, William, assignor.)						
Banks, William H., et al. (See Cross, Christopher G., assignor.)						
Bankwitz, Ernest C., Bridgeport, Conn. Weighing-scale	331,020	Nov. 24	2109	571	33	930
Bannister, Alfred F., Newark, N. J. Carving-fork	324,071	Aug. 11	899	248	32	697
Bannister, Louis H. (See Bannister, Willis A. and L. H.)						
Bannister, Willis A. and L. H., assignors to Eastman Dry Plate and Film Company, Rochester, N. Y. Roller-holder for photographic films	316,933	May 5	4	2	31	523
Bannwart, Alexander, Zurich, Switzerland, and E. Ermold, New York, N. Y., assignors to Wittemann Brothers. Corking-machine	311,634	Feb. 3	223	65	30	392
Banowitz, Mathias B., Brown's, Iowa. Saw-table gage	322,775	July 21	1534	495	32	360
Banser, John H., North Clarendon, Pa. Rope-socket	310,360	Jan. 6	270	74	30	52
Banta, Ira S., Kansas City, Mo. Baggage-elevator	329,675	Nov. 3	392	92	33	574
Banta, John J., Pacific, Mo. Ratchet-drill	326,381	Sept. 15	1556	404	32	1317
Banta, William E., assignor of two-fifths to J. M. Dodd and A. M. Crowthers, Springfield, Ohio. Electric way	318,411	May 19	1984	534	31	905
Bantin, Alfred J., Norwalk, Conn. Faucet	321,476	July 7	93	25	32	19
Bars, Auguste, and E. Desjardins-Lieux, Paris, France. Lamp-shade	323,624	Aug. 4	322	92	32	598
Baragwanath, William, Chicago, Ill. Heating and purifying feed-water	314,559	Mar. 31	2069	550 551	30	1212
Barbe, Joseph, Saint-Amand, Nord, France. Safety-valve	328,451	Oct. 20	1239	321	33	241
Barbean, Alfred, Ware, Mass. Washing-machine	327,988	Oct. 13	627	105 106	33	120
Barber, Adin M. (See Brown, Mathew, assignor.)						
Barber, Adin M., Bridgeport, Conn., assignor to American Hand Sewing Machine Company, New York, N. Y. Sewing-machine	330,195	Nov. 10	1040	271	33	711
Barber, Albert E., McDowell, Ill. Watering-trough for animals	315,697	Apr. 14	993	261	31	187
Barber, Amos P., Jr., assignor of one-fourth to C. S. Barber, Rahway, N. J. Hemmer	331,021	Nov. 24	2111	571	33	931
Barber, Amos P., Jr., assignor of one-fourth to C. S. Barber, Rahway, N. J. Folding-guide	331,022	Nov. 24	2112	573	33	931
Barber, Amzi L., assignor to Barber Asphalt Paving Company, Washington, D. C. Asphaltic mastic	330,196	Nov. 10	1041	.....	33	711
Barber, Amzi L., assignor to Barber Asphalt Paving Company, Washington, D. C. Asphaltic cement for paving, roofing, &c.	330,197	Nov. 10	1042	.....	33	711
Barber Asphalt Paving Company. (See Barber, Amzi L., assignor.)						
Barber, Charles S. (See Barber, Amos P. Jr., assignor.)						
Barber, Charles S., Hartford, Conn. Dividers and calipers	313,275	Mar. 3	344	85	30	839
Barber, Edwin L., Chicago, Ill. Sieve for sifting flour, meal, &c.	325,780	Sept. 8	763	190	32	1162
Barber, Emmet N., Kent, Ohio. Lumber-measure	332,864	Dec. 22	2339	619	33	1435
Barber, Frank H., assignor of one-half to G. R. Dickinson Paper Company, Holyoke, Mass. Snool-winder	327,511	Oct. 6	2	1	33	3
Barber, George F., De Kalb, Ill. Combined screen and storm-door	312,949	Feb. 24	2017	551	30	745
Barber, Henry A., Watertown, N. Y. Suction box for paper-making machines	316,221	Apr. 21	1714	450	31	324
Barber, I. I. (See Price, Joseph R., assignor.)						
Barber, Ira, assignor to himself and J. F. Croft, La Porte, Ind. Road-cart	316,934	May 5	7	2	31	524
Barber, Jackson A., North Adams, Mich. Stanchion	327,733	Oct. 6	396	84	33	57
Barber, John H., Pierce City, Mo. Combined broom and tool rack	326,193	Sept. 15	1301	336	32	1260
Barber, Ozias, Akron, Ohio. Socket-mold for sewer pipe presses	330,325	June 18	1891	494	31	1404
Barber, Richard H., Galena, Kans. Automatic stock water-tank	330,687	Nov. 17	1648	443	33	837
Barber, Spencer F., Rutherford, Pa. Seed-drill gage	324,895	Aug. 25	1919	528	32	902
Barber, Thomas, Flatbush, N. Y. Disk and cone valve	311,942	Feb. 10	643	176	30	476
Barber, Thomas, Flatbush, N. Y. Piston	312,970	Feb. 24	2017	551	30	745
Barber, Thomas, Flatbush, N. Y. Stuffing-box	313,703	Mar. 10	899	234	30	954
Barber, Thomas, Flatbush, N. Y. Piston-packing	313,704	Mar. 10	900	234	30	954
Barber, Thomas, Flatbush, N. Y. Boiler-feeder and alarm	319,662	June 9	938	248	31	1230
Barber, Thomas, Flatbush, N. Y. Pulley-block	320,206	June 16	1625	448	31	1371
Barber, Thomas, Flatbush, N. Y. Steam-condenser	320,746	June 23	2447	649	31	1519
Barber, Thomas, Flatbush, N. Y. Force-pump	321,335	June 30	3207	853	31	1666
Barber, Thomas, Flatbush, N. Y. Piston-packing. (Reissue)	10,628	July 28	2797	721	32	515
Barber, Thomas, Flatbush, N. Y. Boiler-feeder and alarm	325,898	Sept. 8	900	227	32	1128
Barber, Thomas W. (See Stevens, Major, and Barber.)						
Barber, Vincent S., and S. D. Reynolds, Rochelle, Ill. Combined collar and bame	330,456	Nov. 17	1390	370	33	785
Barber, William E., Wyoming, R. I. Stone lifting and carrying machine	327,929	Oct. 13	628	166	33	121
Barber, William H., Ward, Ohio. Grain sacking and weighing attachment for thrashing-machines	319,170	June 2	286	76	31	1100
Barber, William H., Ward, Ohio. Automatic registering-machine	329,130	Oct. 27	2171	562	33	415
Barber, William W., Ruthven, Iowa. Dust-protector for thrashing-machines	332,224	Dec. 15	1448	375	33	1271
Barbler, Robert P., Paris, France. Telephone system	330,368	Nov. 17	1274	338	33	764
Barbiere, Joseph, Lansdale, Pa. Vehicle-wheel	311,280	Jan. 27	1512	412	30	299
Barbour, Mary G., Bradford, Mass. Broiler or toaster	320,529	June 23	2175	674	31	1466
Barbour, Pollock, Louisville, Ky. Bridge-bit	319,439	June 9	634	172	31	1176
Barclay, James. (See Weigel and Barclay.)						
Barclay, Peter, Boston, Mass. Lubricator	322,407	July 21	1343	349	32	261
Barclift, Willis A., et al. (See Schnell, Adam, assignor.)						
Bard, Cephas L., San Buenaventura, Cal. Combined whip-socket, oil-can, and wrench	315,110	Apr. 7	165	40	31	31
Bard, Cephas L., San Buenaventura, Cal. Whip-socket	318,531	May 26	2146	578	31	944
Bard, Cephas L., San Buenaventura, Cal. Check-rein and post-hook	327,056	Sept. 29	2487	649	32	1498
Bard, Cephas L., San Buenaventura, Cal. Check-rein and post-hook	327,057	Sept. 29	2489	650	32	1499

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Bard, Cephas L., San Buenaventura, Cal. Check-rein and post-hook	327,058	Sept. 29	9490	650	32	1499
Bard, J. Sprague, New York, N. Y. Pen.	318,679	May 26	2344	626	31	979
Bard, James H., Jackson, Tenn. Hoop for barrels, tubs, &c.	325,809	Sept. 8	802	202	32	1170
Bard, Reuben B., Williamstown, N. J. Preserve-jar fastening	323,101	July 28	2308	610	32	443
Bardin, James, Jr., Salinas, Cal. Gate	328,560	Oct. 20	1379	359	33	266
Bardsley, Henry, assignor of one-half to G. Brooks & Son, Philadelphia, Pa. Loom-shuttle	325,791	Sept. 8	683	171	32	1147
Bardsley, Joseph, Newark, N. J. Door-knob	314,644	Mar. 31	9175	577	30	1932
Bardsley, Joseph, Newark, N. J. Door spring and check	329,000	Oct. 27	1929	518	33	385
Bare, John, Mount Union, Pa., assignor to R. B. Bare, Washington, D. C. Nut-lock	333,380	Dec. 29	3060	798	33	1571
Bare, Robert B. (See Bare, John, assignor.)						
Barbitt, Samuel R., Lewis, Iowa. Fruit-jar	321,272	June 30	3134	835	31	1651
Baringer, John I., Waterford, N. Y. Sash-fastener	323,998	Aug. 11	796	221	32	680
Barker, Albert S., Clifton, Pa. Apparatus for instantaneous photography	319,663	June 9	939	242	31	1230
Barker, Asbury, Peekskill, N. Y. Window-blind	319,664	June 9	940	249	31	1230
Barker, Augustus M., et al. (See Tyler, George, assignor.)						
Barker, Columbus C., and T. Craney, Bay City, Mich. Floating log-loader	313,293	Mar. 3	370	92	30	844
Barker, Columbus C., and T. Craney, Bay City, Mich. Log-crib	313,294	Mar. 3	370	92	30	844
Barker, David, assignor to Canton Glass Company, Canton, Ohio. Mold for forming screw-caps	330,545	Nov. 17	1501	402	33	806
Barker, Erasmus B., assignor to E. & H. T. Anthony & Co., New York, N. Y. Photographic plate or sheet holder	315,319	Apr. 7	341	83	31	61
Barker, Irving, Braidwood, assignor of one-half to J. D. Bennett, Wilmington, Ill. Chimney-top	329,983	Nov. 10	773	198	33	656
Barker, J. S., et al. (See Houlehan, James, assignor.)						
Barker, John, Lawrence, Mass. Guide-board for spinning-frames	325,307	Sept. 1	105	29	32	1035
Barker, John L., Racine, Wis. Flying target	312,604	Feb. 24	1570	430	30	665
Barker, John R., Chicago, Ill. Hot-air furnace	328,541	Sept. 22	1753	458	32	1361
Barker, Joseph H., Cincinnati, Ohio. Thill-coupling	319,946	June 16	1341	383	31	1309
Barker, Joseph H., Cincinnati, Ohio. Two-wheeled vehicle	321,477	July 7	94	25	32	19
Barker, R. M. (See Skinner, John, assignor.)						
Barker, Robert, Lansing, Mich. Spirit-level	325,479	Sept. 1	354	86	32	1083
Barker, William, Cincinnati, Ohio. Check-valve	314,216	Mar. 24	1593	421	30	1099
Barker, William R., and A. L. Savory, New Bond Street, county of Middlesex, England. Food for infants and invalids	313,157	Mar. 3	160		30	806
Barkbeimer, Joseph, Des Moines, Iowa. Electric burglar-alarm	319,053	June 2	147	40	31	1074
Barkholder, Clark. (See Sigler, George R. and W. G., assignors.)						
Barkla, William, et al. (See McMurtrie, James E., assignor.)						
Barkley, Charles W., Seward, Neb. Animal-trap	330,668	Nov. 17	1649	444	33	837
Barkley, Jacob C., Nevada, Ky. Tobacco-press	322,776	July 21	1835	485	32	350
Barkley, William C., Litchfield, Ill. Fire-escape	325,381	Sept. 1	917	55	32	1056
Barler, Augustus C., assignor, by means assignments, of one-half to E. R. Burley, Chicago, Ill. Flour-sifting scoop	318,690	May 26	2345	626	31	979
Barley, James H., Sedalia, Mo. Harrow	326,704	Sept. 29	1978	519	32	1402
Barley, James H., assignor of one-half to T. K. Barley, Sedalia, Mo. Harrow	310,170	Jan. 6	12	4	30	5
Barley, James H. and T. K. Sedalia, Mo. Hay-stacker fork	324,636	Aug. 18	1669	465	32	852
Barley, Thomas K. (See Barley, James H., assignor.)						
Barley, Thomas K. (See Barley, James H. and T. K.)						
Barlow, Aurelius T., Marshfield, Ore. Clamp for roof-scaffolds, &c.	330,546	Nov. 17	1503	402	33	806
Barlow, Charles O., assignor of three-fourths to G. T. Emery, J. W. Sprague, Nevada City, Cal., and R. H. Lane, New York, N. Y. Machine rock-drill	316,107	Apr. 21	1569	408	31	297
Barlow, Charles O., and G. T. Emery, assignors of one-half to J. W. Sprague, Nevada City, Cal., and R. H. Lane, New York, N. Y. Power rock-drill	316,106	Apr. 21	1567	408	31	297
Barlow, George A., Hamilton, Mo. Gate	323,102	July 28	2309	610	32	443
Barlow, Henry C., Dallas, Tex. Window-screen holder	316,222	Apr. 21	1716	451	31	324
Barlow, Joseph C., Quincy, Ill. Check-row attachment for corn-planters	312,695	Feb. 24	1682	463	30	685
Barlow, Joseph C., Quincy, Ill. Corn-planter	317,075	May 5	190	48	31	557
Barlow, Joseph C., Quincy, Ill. Corn-planter	328,101	Oct. 13	775	202	33	147
Barlow, Joseph C., Quincy, Ill. Wire for check-row corn-planters	328,452	Oct. 20	1229	322	33	241
Barlow, Joseph C., Quincy, Ill. Anchor for check-row planters	329,255	Oct. 27	2350	611	33	451
Barlow, Joseph C., Quincy, Ill. Corn-planter	329,994	Nov. 10	773	198	33	656
Barlow, Orrin G. (See Walker and Barlow.)						
Barlow, Robert N. (See Gebhard and Barlow.)						
Barlow, Samuel, Castleton, near Manchester, England. Manufacture of compound fabric for book-binding	332,778	Dec. 22	2227	567	33	1416
Barlow, Thomas L., Boston, Mass. Window-awning	317,485	May 12	762	194	31	670
Barnore, Albert K., Milano, Tex., assignor to W. H. Brevoort, Vincennes, Ind. Wagon-brake	325,038	Aug. 25	2233	612	32	960
Barnard, Andrew B., St. Joseph, Mo. Hand punch or press	312,696	Feb. 24	1687	464	30	686
Barnard, Charles L., Byhalla, Miss. Portable hay and cotton press	322,037	Dec. 8	1176	308	33	1217
Barnard, Everton, Albany, N. Y. Portable stove-pipe shelf	318,941	June 2	4	1	31	1049
Barnard, George D. (See Knapp, Edward, assignor.)						
Barnard, George D. (See Welch, Renel H., assignor.)						
Barnard, Heman A., and J. B. Cornwall, assignors to Barnard & Leas Manufacturing Company, Moline, Ill. Corn-sheller	322,777	July 21	1836	486	32	350
Barnard, Henry C., Charleston, Ill. Washing-machine	327,059	Sept. 29	2492	650	32	1500
Barnard, Henry H., assignor of one-half to J. D. Gray, Syracuse, N. Y. Converting reciprocating into rotary motion	311,407	Jan. 27	1690	458	30	330
Barnard, James E., and P. Geary, Sterling, Ohio. Harrow	332,581	Dec. 15	1950	510	33	1357
Barnard & Leas Manufacturing Company. (See Barnard and Cornwall, assignors.)						
Barnard, Obed W., Seneca, Kans. Washing-machine	317,486	May 12	763	194	31	670
Barnard, Robert, and E. Miles, London, England. Tube-expander	325,150	Aug. 25	2269	653	32	986
Barneckov, Jennie M., et al. (See Barneckov, Kiel V., assignor.)						
Barneckov, Kiel V., assignor to C. R. Irwin and J. M. Barneckov, Newburg, N. Y. Square piano	332,182	Dec. 8	1386	358	33	1253
Barneckov, Charles W., Newburg, N. Y. Hood for shutter-hinges	310,637	Jan. 13	611	168	30	122
Barnes, Aldon and M. Bloomington, assignors to Chambers, Bering, Quinlan Company, Decatur, Ill. Corn-planter check-rower	315,290	Apr. 7	348	83, 84	31	61
Barnes, Andrew N., assignor of one-half to C. L. Edmonds, Rondout, N. Y. Holder for bags, &c.	322,408	July 21	1344	350	32	261
Barnes, Avon. (See Cunningham and Barnes.)						
Barnes, Benjamin. (See Danks and Barnes.)						
Barnes, Charles, Dayton, Ky. Automatic fire-extinguishing apparatus	316,223	Apr. 21	1717	451	31	325

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Barnes, Charles, Dayton, Ky. Automatic fire-extinguisher.....	319,774	June 9	1062	288	31	1256
Barnes, Charles, Dayton, Ky. Automatic fire-extinguisher.....	324,977	Aug. 25	2149	587	32	945
Barnes, Charles E., Paterson, N. J. Braid-board.....	332,038	Dec. 8	1177	308	33	1217
Barnes, Charles P. (See Talley and Barnes.)						
Barnes, Charles W., Crookston, Minn. Cask-hoop fastening.....	321,938	July 14	733	192	32	142
Barnes Company, W. F. & John. (See Barnes, William F., assignor.)						
Barnes, David J., Fort Atkinson, Wis. Cattle-stanchion.....	333,275	Dec. 29	2925	765	33	1547
Barnes, Elizur, assignor of one-half to C. A. Richards, Boston, Mass. Rail for street-rail-ways.....	321,414	July 7	2	1	32	3
Barnes, Emory, Mount Pleasant, Mich. Device for moving cars.....	310,492	Jan. 6	490	116	30	81
Barnes, George A., New Haven, Conn. Wrench.....	330,369	Nov. 17	1276	339	33	764
Barnes, George A., New Haven, Conn. Lathe-chuck.....	331,603	Dec. 1	539	131	33	1092
Barnes, Harry W., Bristol, Conn. Clock-bell.....	312,792	Feb. 24	1817	499	30	709
Barnes, Henry D., New Haven, Conn. Stave-jointing machine.....	320,747	June 23	2448	649	31	1520
Barnes, Howard C. (See Randall, George S., assignor.)						
Barnes, James M., Cuba, N. Y. Sleigh.....	322,085	July 14	927	240	32	177
Barnes, John H., and J. H. Woolaston, assignors to Barnes Manufacturing Company, New Haven, Conn. Lock.....	314,778	Mar. 31	2373	628	30	1269
Barnes, Joseph J., et al. (See Heath, George M., assignor.)						
Barnes, Laurentius F., et al. (See Heath, George M., assignor.)						
Barnes, Lewis, Somerville, N. J. Fence.....	324,517	Aug. 18	1516	417	32	819
Barnes Manufacturing Company. (See Barnes and Woolaston, assignors.)						
Barnes, Marion M., Weller, Iowa. Sickle-bar.....	329,696	Nov. 3	365	36, 37	33	574
Barnes, Merrick M., Boston, Mass. Micrometer-calipers.....	324,604	Aug. 25	1918	527 528	32	902
Barnes, Merrick M., Boston, Mass. Micrometer-calipers.....	325,233	Sept. 1	4	2	32	1015
Barnes, Monroe. (See Barnes, Alden and M.)						
Barnes, N. A., et al. (See Pearce, William, assignor.)						
Barnes, Philo M., Lockport, N. Y. Dash-board.....	324,355	Aug. 18	1299	353	32	780
Barnes, Raymond F., Brooklyn, N. Y. Chandelier.....	323,625	Aug. 4	332	93	32	582
Barnes, Raymond F., Brooklyn, assignor to United States Electric Lighting Company, New York, N. Y. Vacuum-pump.....	312,951	Feb. 24	2018	551	30	745
Barnes, Robert A., Berry, Ill. Flood-gate.....	332,039	Dec. 8	1178	308	33	1217
Barnes, Robert W. (See Brown, Barnes, and Bell.)						
Barnes, Thomas, Philadelphia, Pa. Open link.....	324,637	Aug. 18	1690	465	32	852
Barnes, William F., assignor to W. F. & J. Barnes Company, Rockford, Ill. Scroll-saw-ing machine.....	328,377	Oct. 13	1134	293	33	214
Barnett, Frederic, 106 Queen Victoria Street, London, England. Bridge for facilitating the passage of shipping, &c.....	316,597	Apr. 28	2222	585	31	422
Barnett, G. & H. (See Gosling, Henry J., assignor.)						
Barnett, George W. (See Taliaferro, Eilbeck H., assignor.)						
Barnett, Joseph, New York, N. Y. Fire-escape ladder.....	312,793	Feb. 24	1818	499	30	709
Barnett, Martin S. (See Stempel, Omar A., assignor.)						
Barney, Everett H., Springfield, Mass. Roller-skate.....	312,952	Feb. 24	2020	552	30	745
Barney, Everett H., Springfield, Mass. Rudder hanging and steering device.....	319,665	June 9	941	249	31	1230
Barney, Everett H., Springfield, Mass. Roller-skate fastening.....	319,666	June 9	942	249	31	1231
Barney, Everett H., Springfield, Mass. Implement for attaching washers on roller-skates.....	319,775	June 9	1083	288	31	1256
Barney, Finis M., Kearney, Nebr. Churn.....	319,171	June 2	287	76	31	1100
Barney, George C. (See Abbott, Levi, assignor.)						
Barney, George D., assignor to N. Barney, Brooklyn, N. Y. Dumping-scow.....	322,409	July 21	1346	350	32	262
Barney, George W. (See Lowe, Austin, assignor.)						
Barney, John C., Peoria, Ill. Carriage-coupling.....	314,987	Apr. 7	1	1	31	3
Barney, Nathan. (See Barney, George D., assignor.)						
Barney, R. Lester, Swanton, Vt. Stone-sawing machine.....	313,643	Mar. 10	819	214 215	30	939
Barner, Richard W. (See Van Winkle, George H., assignor.)						
Barney, Valentine G., Charles City, Iowa. Machine for sawing stone.....	312,068	Feb. 10	819	224	30	508
Barney, Valentine G., Charles City, Iowa. Sand and water pump.....	312,069	Feb. 10	821	224	30	509
Barnhart, Henry M. (See Huber and Barnhart.)						
Barnhart, Henry M., and E. Huber, Marion, Ohio. Loading and unloading cars.....	325,306	Sept. 1	106	30	32	1035
Barnhart, Henry M., and E. Huber, Marion, Ohio. Device for loading and unloading cars.....	325,309	Sept. 1	107	30	32	1035
Barnhart, Irving W., Flint, Mich. Crayon and eraser holder for blackboards.....	328,177	Oct. 13	874	227	33	165
Barnhart, William R., St. Louis, Mo. Machine for polishing and sorting nuts, &c.....	320,326	June 16	1822	494	31	1404
Barnum, George S. (See Williams, Ives, and Barnum.)						
Barnwell, Charlotte C., Beaufort, S. C. Folding bath-stand.....	316,324	Apr. 21	1848	488 489	31	348
Barr, Edwin C. (See Hutchins, Charles W., assignor.)						
Barr, Henry G. (See Franklin and Barr.)						
Barr, John R., Union Star, Ky. Remedy for rheumatism.....	329,097	Nov. 3	365		33	574
Barr, Samuel F. (See Altmaier, Peter A., assignor.)						
Barr, William H., Conway, Mo. Fire-escape step-rod attachment.....	328,636	Oct. 20	1498	390	33	287
Barr, William H., Grove Spring, Mo. Fire-escape.....	328,637	Oct. 20	1499	390	33	287
Barrack, Charles W. (See Sayre, Sylvester P., assignor.)						
Barrath, Edward, Brooklyn, N. Y. Power-press.....	316,935	May 5	8	3	31	524
Barrett, Albert. (See Price and Barrett.)						
Barrett, Charles E., et al., trustees. (See Pratt, Harry P., assignor.)						
Barrett, Charles E., Brattleborough, Vt. Journal-bearing.....	310,552	Jan. 13	505	139	30	103
Barrett, Henry, London, England. Stopper for bottles.....	331,023	Nov. 24	2112	572	33	931
Barrott, Henry J., Kingston-upon-Hull, county of York, England. Vehicle-wheel.....	324,072	Aug. 11	900	248 249	32	697
Barrett, John A., Brooklyn, N. Y. Conduit for subterranean electrical conductors.....	332,319	Dec. 15	1574	413 414	33	1294
Barrett, John L., et al. (See MacLean, Daniel J., assignor.)						
Barrett, Josiah, assignor to Duff Manufacturing Company, (limited,) Allegheny, Pa. Lift-ing-jack.....	312,316	Feb. 17	1176	322 323	30	583
Barrett, Josiah, Allegheny, Pa., assignor to Duff Manufacturing Company, (limited,) Lift-ing-jack. (Reissue).....	10,574	Mar. 24	2050	546	30	1182
Barrott, Josiah, assignor to Duff Manufacturing Company, (limited,) Allegheny, Pa. Lift-ing-jack. (Reissue).....	10,651	Oct. 13	1234	320	33	234
Barrett, Richard, Newark, N. J. Traveler for carrying carcasses.....	331,758	Dec. 8	775	196	33	1144
Barrett, Samuel E., Weston, V. Va. Bier.....	321,781	July 7	505	134	32	94
Barrett, Timothy, Cascade, Iowa. Harness-loop.....	327,060	Sept. 29	2493	651	32	1500
Barrett, William, Sedalia, Mo. Hay and straw cutter.....	326,382	Sept. 15	1558	404	32	1317
Barrez, Charles J. P. (See Guerrand, René, assignor.)						
Barrier, Jules J., F. Tourville, and J. E. Legay, Paris, France. Electrical accumulator.....	317,487	May 12	764	194	31	670

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Barringer, Daniel M., Bennettsville, S. C. Plow	318,160	May 19	1650	441	31	843
Barringer, James F., Bennettsville, S. C. Cotton-chopper	321,174	June 30	3012	798	31	1029
Barringer, John H., Lincoln, Nebr. Self-loading cart	319,876	June 9	1235	326	31	1281
Barron, James B., Topsham, Me. Wire-fence tool	314,779	Mar. 31	2375	628	30	1909
Barron, John W., assignor to E. F. Hagar, Boston, and H. Sawyer, Chelsea, Mass. Zincography	310,638	Jan. 13	613	169	30	122
Barron, Randolph M., Castleberry, Ala. Hacker for chipping pine trees	325,480	Sept. 1	355	86	32	1083
Barron, Thomas J., Newnan, Ga. Leveling-instrument	331,604	Dec. 1	540	131	33	1092
Barron, Walter J., assignor to American Writing Machine Company, New York, N. Y. Type-writing machine	330,198	Nov. 10	1043	272	33	711
Barron, William J., Huntsville, Ala. Sash-fastener	325,481	Sept. 1	356	86	32	1083
Barrow, Samuel, assignor to Sheet Iron Bellows Company, Kempton, Ind. Blower	317,436	May 5	696	175	31	649
Barrow, Thomas E., Mansfield, Ohio. Combined shaking and dumping grate	315,460	Apr. 14	666	173	31	126
Barrow, Thomas E., Mansfield, Ohio. Cash-carrier	331,936	Dec. 8	1028	267	33	1191
Barrow, Thomas E., and H. Wade, Mansfield, Ohio. Door check and holder	315,921	Apr. 7	345	84	31	82
Barrows, Frederick, Haverhill, Mass. Shade-holder	328,975	Oct. 13	992	258	33	188
Barrows, Hollis W., Muncie, Ind. Roller-skate	326,261	Sept. 15	1399	364	32	1887
Barrows, J. Frank, Springfield, Ill. Piano-truck	322,150	July 14	1018	285	32	194
Barry, Charlotte M. A., Boston, Mass. Waist	318,681	May 26	2346	626 627	31	979
Barry, Edmund D. (See Tideman, Sven, assignor.)						
Barry, James, Willmar, Minn. Car-coupling	322,672	July 21	1698	450	32	326
Barry, Job R., Philadelphia, Pa. Steam-trap	315,690	Apr. 14	1270	330	31	236
Barry, John. (See Hudson and Barry.)						
Barry, John, New York, N. Y. Thermometric electric alarm	329,698	Nov. 3	366	93	33	574
Barry, Robert. (See Trout, John F., assignor.)						
Barshby, William, King's Heath, county of Worcester, England. Lock-stitch sewing-machine	313,705	Mar. 10	900	234 235	30	954
Barso, Mills W., Olean, N. Y. Steam-boiler	319,545	June 9	780	307	31	1201
Barstow, Albert C., Salem Depot, N. H. Spreading-tool for machines for coating fabrics with plastic material	320,530	June 23	2175	574	31	1406
Barstow, Howland M. (See Gould, Andrew J., assignor.)						
Barstow & Luther. (See Tingley, Frank F., assignor.)						
Bartel, Rudolph F., Jersey City, N. J. Glove	325,899	Sept. 8	901	227	32	1189
Bartels, Carl, Boston, Mass. Preservative coating for meats	318,851	May 26	2579		31	1019
Bartels, Charles L. (See Ashton, James S., assignor.)						
Bartels, William H., assignor of two-thirds to G. Edmunds, Carthage, Ill., and G. Vote, Fairfield, Iowa. Machine for cutting grass and weeds from railway-tracks	325,584	Sept. 1	490		32	1109
Bartens, Charles, Orange, N. J. Combined match-box and cigar-cutter	318,580	May 26	2234	597	31	957
Barter, Thomas D., assignor to C. A. Shaw, Boston, Mass. Circular-cloak	331,179	Nov. 24	2330	631	33	970
Bartgis, Frederic A., Frederick, Md. Fence	314,419	Mar. 24	1864	496	30	1151
Barth, Albin F., Grossenhain, Saxony, Germany. Ship's propeller	317,488	May 12	765	195	31	670
Bartholomew, Albert W., Manchester, N. H. Axle-tool	320,748	June 23	2451	650	31	1520
Bartholomew, Daniel, Red Cloud, Nebr. Threshold	322,066	July 14	928	240	32	177
Bartholomew, Grove S., and J. D. Abbott, Reading, Mich. Swinging gate	311,976	Mar. 17	1294	337	30	1033
Bartholomew, Harry S., Bristol, Conn. Corn-harvester	319,054	June 9	148	40	31	1074
Bartle, James, Notting Hill, county of Middlesex, England. Door of gas-retorts	314,780	Mar. 31	2376	629	30	1270
Bartlett & Co., A. F. (See Campbell, William A., assignor.)						
Bartlett, George H., Sunapee, N. H. Hame	315,691	Apr. 14	1271	331	31	237
Bartlett, George P. (See Stark and Bartlett.)						
Bartlett, Henry C., et al. (See Belknap, Hamlet W., assignor.)						
Bartlett, Henry M., Boston, Mass. Piston-meter for fluids	331,605	Dec. 1	541	132	33	1092
Bartlett, Henry M., Somerville, Mass. Piston-meter for fluids	333,099	Dec. 29	2675	701 702	33	1503
Bartlett, John B., Minneapolis, Minn. Movable lamp-holder	317,917	May 12	1323	35	31	775
Bartlett, John S., Akron, Ohio. Steam-actuated valve	325,900	Sept. 8	901	227	32	1189
Bartlett, John W., Moline, Ill. Gang-plow	310,775	Jan. 13	789	213 214	30	155
Bartlett, John W., Moline, Ill. Wheel-plow	319,440	June 9	635	172	31	1176
Bartlett, John W., Moline, Ill. Wheel-plow	319,441	June 9	636	172 173	31	1176
Bartlett, Marcus J. (See Wilkins and Bartlett.)						
Bartlett, Marcus J., Chardon, assignor of one-half to F. H. Kelly, Cleveland, Ohio. Machine for attaching shoe-buttons	316,724	Apr. 28	2415	629 630	31	457
Bartlett, Roland S., assignor to Williams Manufacturing Company, Northampton, Mass. Basket	313,910	Mar. 17	1196	311	30	1016
Bartlett, Samuel H. (See Waite and Bartlett.)						
Bartlett, Thomas J., Colorado, Tex. Fire-place heater	319,172	June 2	288	77	31	1100
Bartlett, William W., Salt Lake City, Utah Ter. Bed-spring	329,121	Oct. 27	2173	562	33	416
Bartley, Harvey, Pittsburg, Pa. Detecting leakage in gas-mains	330,199	Nov. 10	1043	272	33	711
Bartley, Harvey, assignor of one-third to J. F. Steel, Pittsburg, Pa. Conduit for the conveyance of gas under pressure	317,283	May 5	480	121	31	611
Bartley, Nadab O., Auburn, N. Y. Sprinkling apparatus	311,560	Feb. 3	140	40	30	375
Barton, Charles, Brandon, county of Warwick, assignor of one-half to A. Rotherham, Coventry, England. Vapor-burner	323,103	July 28	2310	611	32	444
Barton, Charles C., New York, and J. Thomson, Brooklyn, N. Y. Combined piston and diaphragm meter	313,158	Mar. 3	161	40	30	806
Barton, Charles C., New York, and J. Thomson, Brooklyn, N. Y. Fluid-meter	313,159	Mar. 3	165	40, 41	30	807
Barton, Charles S., assignor to Rice, Barton & Fales Machine and Iron Company, Worcester, Mass. Paper-cutting machine	317,612	May 12	925	237	31	698
Barton, David C., assignor to himself and M. D. Lewis, Rocheport, Mo. Car-coupling	310,553	Jan. 13	507	140	30	103
Barton, Edward F., assignor of one-half to T. Grundle, Ravenna, Ohio. Crate	332,376	Dec. 15	1658	435	33	1308
Barton, Elijah C., East Hampton, Conn. Door-plate	332,775	Dec. 22	2223	563	33	1415
Barton, George T., Englewood, assignor to S. Smith, Chicago, Ill. Index	330,285	Nov. 10	1153	306	33	733
Barton, Richard T., assignor of five-sixths to A. H. Smith, New Haven, Conn. Nut-machine	316,866	Apr. 28	2615	682	31	493
Barton, William E., East Hampton, Conn. Sleigh-bell attachment	312,070	Feb. 10	823	224	30	509
Bartram, Charles E., Fredonia, N. Y. Campaign-torch	319,382	June 2	545	148	31	1151
Bartram, Charles E., Fredonia, N. Y. Sidewalk-clearer	327,990	Oct. 13	629	166	33	121
Bartram, Ferdinand S. (See Hoyt and Bartram.)						
Bartron, Stockton, Portland, Pa. Friction-clutch	313,644	Mar. 10	821	215	30	930
Bartsch, Charles A. (See Baumeister and Bartsch.)						
Bartsch, Charles A., Bridgeport, Conn. Furnace for roasting copper and other ores	316,723	Apr. 28	2413	628	31	457
Bartsch, Charles A., Bridgeport, Conn. Still for concentrating sulphuric acid	318,682	May 26	2347	627	31	979

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Baruch, Nathan, Schwesensz, Germany, and O. L. Williams, Portsmouth, county of Hants, England. Hat or cap.	324,073	Aug. 11	902	246	32	697
Bascom, Frank A., Greenville, Pa. Sash-fastener	326,080	Sept. 15	1158	396	32	1944
Bash, David W., Chatsworth, Ill. Cultivator	327,754	Oct. 6	327	84	33	57
Bashore, Isaac, Walla Walla, Waah. Ter. Automatic artificial finger	319,776	June 9	1084	288	31	1256
Basinger, James M., assignor of one-half to Pratt & Letchworth, Buffalo, N. Y. Buckle	321,175	June 30	3014	798	31	1699
Basinger, James M., assignor of one-half to Pratt & Letchworth, Buffalo, N. Y. Harness-buckle	322,087	July 14	929	940	32	177
Basnett, Philip S., Basnettville, W. Va. Gate	326,748	Oct. 20	1637	496	33	313
Bass, Charles A., Cicero, Ill. Air-brake for locomotives and railway-cars	312,945	Feb. 17	1074	296	30	563
Basse, Gerhard D., Milwaukee, Wis. Apparatus for preserving and displaying vegetables, &c	325,310	Sept. 1	108	31	32	1035
Bassell, John Y., assignor to R. G. Bassell, Cincinnati, Ohio. Sash-fastener	321,176	June 30	3015	796 799	31	1629
Bassell, John Y., assignor to R. G. Bassell, Cincinnati, Ohio. Sash-fastener	323,020	July 28	2190	581	32	421
Bassell, John Y., assignor to R. G. Bassell, Leesburg, Va. Sash-fastener	322,684	Nov. 3	507	120	33	601
Bassell, John Y., assignor to R. G. Bassell, Leesburg, Va. Weather-strip	330,709	Nov. 17	1787	481	33	662
Bassell, John Y., assignor to R. G. Bassell, Leesburg, Va. Weather-strip	330,666	Nov. 24	1914	519	33	693
Bassell, Rebecca G. (See Bassell, John Y., assignor.)						
Bassemir, John, and G. Humel, Brooklyn, N. Y.; said Humel assignor to said Bassemir. Lamp	328,276	Oct. 13	993	258	33	188
Bassett, Andrew R., Taunton, Mass. Truss	320,453	June 23	2078	547	31	1449
Bassett, Ernest A., assignor to himself and N. M. Lowe, Boston, Mass. Breech-loading fire-arm	325,901	Sept. 8	903	228	32	1189
Bassett, James S. (See Westervelt, Douglas, assignor.)						
Bassett, Jesse N. (See Wilson, John assignor.)						
Bassett, Marshall L., assignor to G. R. Kelsey, West Haven, Conn. Machine for forming blanks or articles from wire	323,626	Aug. 4	324	93	32	583
Bassett, Norman C., assignor to Crane Brothers Manufacturing Company, Chicago, Ill. Hydraulic elevator	331,273	Dec. 1	6	2	33	1002
Bassett, Norman C., assignor to Hydraulic Elevator Company, Chicago, Ill. Operating mechanism for elevators	322,776	Dec. 22	2224	586 587	33	1415
Bassini, Charles, Irvington, and A. Heyden, Newark, N. J. Incubator	330,457	Nov. 17	1391	370 371	33	785
Bast, Mathew. (See Alexander and Harrington, assignors.)						
Bastien, Joseph. (See Long, John S., assignor.)						
Basto, Carlos, Rio de Janeiro, Brazil. Electric tramway	319,947	June 16	1341	353	31	1309
Bauey, Taylor C., et al. (See Park, John S., assignor.)						
Batchelder, Fred B., Malden, Mass. Leather-dressing machine	320,906	June 30	2680	707	31	1565
Batchelder Machine Company. (See Nelson, Francis J., assignor.)						
Batchelder, William W., New York, N. Y. Lamp	312,317	Feb. 17	1179	393	30	583
Batcheller, Andrew C., Bay City, Mich. Hoop-nailing machine	313,645	Mar. 10	822	215	30	940
Batdorf, Charles S., assignor of one-half to J. W. Batdorf, Chicago, Ill. Button-hole attachment for sewing machines	313,046	Mar. 3	8	3	30	780
Batdorf, John W. (See Batdorf, Charles S., assignor.)						
Bate, William T., Conshohocken, Pa. Steam-boiler	319,383	June 2	546	148 149	31	1152
Bate, William T., Conshohocken, Pa. Relief-valve for gas-generators	331,024	Nov. 24	1113	572	33	921
Bateman, George D., Pinckneyville, Ill. Boot-tree	319,667	June 9	942	249	31	1221
Bateman, William, San Francisco, Cal. Window-screen	316,517	Apr. 28	2124	559	31	404
Bates, Albert J., Joliet, Ill. Machine for forming and setting flat metal bars	318,079	May 19	1546	414	31	693
Bates, Albert J., Joliet, Ill. Wire-barbing machine	329,355	Oct. 27	2511	647	33	478
Bates, Albert J., assignor to Joliet Barb Wire Company, Joliet, Ill. Wire-barbing machine	325,311	Sept. 1	109	31	32	1036
Bates, Albert J., assignor of one-half to H. C. Knowlton and B. H. King, Joliet, Ill. Door-hanger	330,286	Nov. 10	1154	306	33	733
Bates, Alexander K., Weymouth, Mass. Drinking-fountain for poultry	328,749	Oct. 20	1638	497	33	313
Bates, Daniel, Coldwater, Mich. Self-supporting structure	321,939	July 14	773	192	32	149
Bates, Daniel L., assignor of one-half to B. F. Arnold, Dayton, Ohio. Washing-machine	331,675	Dec. 1	650	160	33	1112
Bates, George M., Tipton, Ind. Gate	331,110	Nov. 24	2232	606	33	953
Bates, Henry C., assignor of one-half to W. Courtnage, Miles, Iowa. Whiffletree-hook	310,609	Jan. 20	908	247	30	183
Bates, Henry C., Miles, and G. Bryant, Iowa, Jackson county, Iowa. Land-pulverizer	312,697	Feb. 24	1688	465	30	686
Bates, Lafayette, assignor of one-half to L. Eaves, St. Louis, Mo. Car-coupling	333,051	Dec. 22	2604	662	33	1484
Bates, Marshall A. (See Brooks, Samuel T., assignor.)						
Bates, Richard W., Chicago, Ill. Store casing or finishing	324,518	Aug. 18	1517	418	32	819
Bates, Richard W., Chicago, Ill. Window-shade	324,519	Aug. 18	1518	418	32	819
Bates, Theodore C. (See Hill, Lucian, assignor.)						
Bates, Theodore C. (See Laffin, Perley, assignor.)						
Bates, Theodore C. (See Williams, Charles H., assignor.)						
Bates, Theodore C., North Brookfield, Mass. Corset-steel fastening	319,948	June 16	1344	354	31	1309
Batman, Alfred E., Joliet, Ill. Combined whip and rein holder	318,060	May 19	1547	414	31	693
Batson, Arthur L., Morrisburg, Ontario, Canada. Press for sacking bran, sawdust, &c. (Release)	10,595	May 12	1380	370	31	785
Batt, John B., assignor of one-half to C. Hager, Buffalo, N. Y. Railway-switch	327,220	Sept. 29	2709	705	32	1539
Battershall, Joseph W., Attleborough, Mass. Manufacture of surgical corsets	328,638	Oct. 20	1499	390	33	247
Batterson, James G., Hartford, Conn. Burglar-alarm	310,242	Jan. 6	101	28	30	21
Battle, James. (See Bloom, Silas N., assignor.)						
Batton, John H., Selma, Ala. Convertible chair	331,111	Nov. 24	2233	606 607	33	963
Bätz, Michael, Brooklyn, N. Y. Hand-propeller for boats	312,071	Feb. 10	824	225	30	509
Batzlaff, Frederick T., La Porte, assignor to E. E. Stutz, Middleburg, Ind. Vehicle-spring	323,291	July 28	2564	693	32	491
Baulbits, George E., St. Joseph, Mo. Bracket	318,343	May 19	1898	511	31	889
Baud, Camille A., et al. (See Nawadny, Albert, assignor.)						
Bauder, Silas E., Birmingham, Ohio. Supporting-button for coffins	311,715	Feb. 3	330	91	30	411
Banduin, Edward, Pola, Austria-Hungary. Engine for twin-screw vessels	315,381	Apr. 7	539	139 140	31	98
Bauer, Alexander H., assignor to Viaduct Manufacturing Company of Baltimore, Baltimore, Md. System of electric-lighting by secondary batteries	312,698	Feb. 24	1689	465	30	686
Bauer, Anton C. (See Bauer, Robert A., assignor.)						
Bauer, Charles F., Newark, N. J. Watch-guard	329,122	Oct. 27	2174	563	33	416
Bauer, Heribert, Pforzheim, Baden, Germany. Fastening for gloves and other articles	321,940	July 14	734	192	32	149
Bauer, Jacob C., Philadelphia, Pa. Packing-case	312,421	Feb. 17	1315	363	30	609
Bauer, Jacob C., Philadelphia, Pa. Knockdown paper box	326,705	Sept. 22	1980	520	32	1402
Bauer, John C., London, England. Spanner	313,571	Mar. 10	727	191	30	922

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Bauer, John C., London, England. Die-stock	330,888	Nov. 24	1916	520	33	893
Baur, John C., Detroit, Mich. Hopping wort	326,383	Sept. 15	1550	405	72	1718
Bauer, John C., Brockley, county of Kent, England. Pipe-vice	328,102	Oct. 13	778	203	33	147
Bauer, John C., Brockley, county of Kent, England. Lathe-chuck	330,667	Nov. 24	1915	519	33	893
Bauer, Robert A., assignor of one-half to A. C. Bauer, Grand Rapids, Mich. V-jointer	319,173	June 2	289	77	31	1101
Bauer'sche Gieserei. (See Hepburn, John M., assignor.)						
Baughman, George T., et al. (See Clark, Levi S., assignor.)						
Baughman, Nelson C., administrator. (See Becker, Leander.)						
Baum, Adam. (See Perkins, Miner T., assignor.)						
Baum, Albert B., Grantville, Pa. Meat-chopper	333,381	Dec. 29	3061	798	33	1571
Baum, August, et al. (See Ackermann, George, assignor.)						
Baum, Samuel, Little Falls, N. Y. Sled	314,217	Mar. 24	1594	421	30	1090
Bauman, Ferdinand, Waldenburg, Switzerland. Electric clock	330,997	June 30	2783	739 740	31	1587
Baumann, Erhard, Dayton, Ohio. Wash-basin holder and attachment	327,991	Oct. 13	630	166	33	121
Baumann, Robert, assignor of one-half to E. Schmid, Cincinnati, Ohio. Medical compound	312,953	Feb. 24	2021		30	746
Baumbach, Emil, New York, N. Y. Railway signaling apparatus	318,224	Apr. 21	1718	451	31	325
Baumeister, Charles, assignor to A. Baus & Co., New York, N. Y. Music-rack for pianos	313,647	Mar. 10	827	216	30	941
Baumeister & Co., L. (See Baumeister, Leopold, assignor.)						
Baumeister, Leopold, assignor to L. Baumeister & Co., Bridgeport, Conn. Vapor-burner for soldering and branding irons	317,489	May 12	766	195	31	670
Baumeister, Leopold, and C. A. Bartsch, Bridgeport, Conn. Apparatus for supplying and regulating the pressure of carbonic-acid gas in beer-kegs	322,410	July 21	1347	350 361	32	269
Baumer, Anton F., Syracuse, N. Y. Apparatus for shaping and finishing candles	330,200	Nov. 10	1045	272	33	712
Baumgartner, Alexander, assignor of one-half to J. G. Ordnung, Belleville, Ill. Stalk and cane cutter	318,942	June 2	5	2	31	1049
Baumgartner, Frederick, Brooklyn, N. Y. Whip-socket	313,100	Mar. 3	171	41	30	808
Baumgartner, George W., New Orleans, La. Rotary egg-preserver	333,100	Dec. 29	2676	702	33	1503
Bauroth, Emil. (See Winchell, James F., assignor.)						
Baus, Augustus, assignor to A. Baus & Co., New York, N. Y. Agraffe for pianos	314,310	Mar. 24	1723	458	30	1123
Baus & Co., Augustus. (See Baumeister, Charles, assignor.)						
Baus & Co., Augustus. (See Baus, Augustus, assignor.)						
Bausch, Edward, Rochester, N. Y. Microtome	325,722	Sept. 8	684	171	32	1147
Bausch, Edward, Rochester, N. Y. Microscope	328,277	Oct. 13	994	259	33	188
Bausch, John J., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Eye-glass	332,673	July 21	1699	450	32	326
Bausch & Lomb Optical Company. (See Bausch, John J., assignor.)						
Bausman, David H., Lancaster, Pa. Wind-engine	313,646	Mar. 10	824	215	30	940
Baville, Edmond P., Brussels, Belgium. Machine for threading screws, bolts, and nuts	311,099	Jan. 20	1236	338 339 340	30	242
Baxter, Charles M., Lebanon, N. H. Hot-air furnace	331,025	Nov. 24	2115	572	33	931
Baxter, Charles O. (See Johnson and Kozisek, assignors.)						
Baxter, Charles O., St. Louis, Mo. Picture-frame	319,668	June 9	943	250	31	1231
Baxter, Charles O., St. Louis, Mo. Machine for making picture-frame moldings	329,677	Nov. 10	692	158	33	628
Baxter, Charles O., St. Louis, Mo., assignor of one-half to H. C. Johnson and J. Kozisek, Chicago, Ill. Making picture-frame molding	327,643	Oct. 6	191	47	33	34
Baxter, George W., Jr., et al. (See Baxter, Hamilton, assignor.)						
Baxter, Hamilton, assignor of two-thirds to G. W. Baxter, Jr., and C. W. Smith, Syracuse, N. Y. Cartridge-loading implement	328,750	Oct. 20	1639	497	33	313
Baxter, Henry, and A. F. Anton, Memphis, Tenn. Wood-molding machine	315,222	Apr. 7	346	84	31	62
Baxter, John N. (See Morrison, Andrew J., assignor.)						
Baxter, Samuel, London, England. Anchor	318,220	May 10	1743	466	31	861
Baxter, Samuel, London, England. Fitting for and method of seating ships' anchors	323,774	Aug. 4	513	144	32	619
Baxter, Samuel A., et al. (See Rumble, A. Carson, assignor.)						
Bay, William L., Columbus, Ohio. Vehicle-spring	313,800	Mar. 10	1078	268	30	978
Bayless, William H., Port Jefferson, N. Y. Revolving ash-sifter	318,683	May 26	2348	627	31	980
Bayless, Nelson. (See Cartmell and Bayless.)						
Bayley, Charles H., Boston, Mass., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Cover-fastening device for sewing-machines	316,108	Apr. 21	1572	409	31	298
Bayley, George B., Oakland, Cal. Brooder for chickens	330,547	Nov. 17	1503	402	33	806
Bayley, William. (See Whiteley and Bayley.)						
Bayliss, Benjamin, Jr., Beltschover, Pa. Manufacturing iron and steel	313,079	Mar. 3	52	14, 15	30	787
Bayliss, Benjamin, Jr., Beltschover, Pa. Apparatus for manufacturing iron and steel	332,475	Dec. 15	1786	468 469	33	1330
Bayliss, Moses, et al. (See Howarth, Robert, assignor.)						
Bayliss, Samuel, et al. (See Howarth, Robert, assignor.)						
Baylis, William, et al. (See Howarth, Robert, assignor.)						
Baylis, William, Wolverhampton, county of Stafford, England. Metal fencing	319,877	June 9	1237	327	31	1262
Baylis, William, Wolverhampton, county of Stafford, England. Fence-post	319,878	June 9	1238	327	31	1262
Baynes, William, and A. R. Clark, Buffalo, N. Y. Ash or garbage receptacle	330,201	Nov. 10	1047	273	33	712
Bayot, Emile. (See Huber, Emil, assignor.)						
Bayrer, William J., assignor to Peck, Stow & Wilcox Company, Southington, Conn. Machine for folding sheet metal	314,311	Mar. 24	1723	458 459	30	1123
Bayrhammer, Theodor, Shelby, Nebr. Scissors	330,287	Nov. 10	1155	306	33	734
Bazin, Ernest, Paris, France. Electric battery	316,436	Apr. 28	2019	530	31	384
Bazin, Ernest, Paris, France. Rotary electric battery	316,437	Apr. 28	2020	530	31	384
Beach, Charles A. (See Downer and Beach.)						
Beach, Charles S., Gloversville, N. Y. Lathe-dog	323,900	Aug. 11	674	189	32	657
Beach, Clifton B., Cleveland, Ohio. Manufacture of car-wheels	329,617	Nov. 3	263	68	33	555
Beach, David H., Litchfield, Conn. Hand-car	317,437	May 5	697	176	31	649
Beach, Edward T. (See Austin, Selden, assignor.)						
Beach, Elias, Chicago, Ill. Oil-burner for lamps or stoves	326,706	Sept. 22	1981	520	32	1402
Beach, Elias, Chicago, Ill. Lamp-extinguisher	326,707	Sept. 22	1983	520	32	1403
Beach, Hannah. (See Beach, Thaddens C., assignor.)						
Beach, Henry B., Meriden, Conn. Salt-dredge	316,725	Apr. 28	2422	630	31	458
Beach, John K., New Haven, Conn. Photographic apparatus	319,669	June 9	944	250	31	1231
Beach, Nelson M., assignor to Bridgeport Brass Company, Bridgeport, Conn. Game-counter	312,794	Feb. 24	1819	499	30	710
Beach, Thaddens C., assignor to H. Beach, Detroit, Mich. Table	313,295	Mar. 3	372	92	30	844
Beach, Thaddens C., assignor to H. Beach, Detroit, Mich. Removable table-leg	327,221	Sept. 29	2710	705	32	1539
Beach, William W., New York, assignor to D. R. Morse, Brooklyn, N. Y., and R. M. Stelle, Plainfield, N. J. Winker for bridges	311,561	Feb. 3	141	40	30	375
Beach, William W., New York, assignor to D. R. Morse, Brooklyn, N. Y., and R. M. Stelle, Plainfield, N. J. Blinder or winker for bridges	311,562	Feb. 3	142	40	30	375

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Beach, Willie P., El Paso, Tex. Cartridge-belt	315,998	Apr. 14	994	961	31	187
Beachman, Robert, Lyons, N. Y. Automatic damper-regulator	329,995	Nov. 10	776	199	33	657
Beacock, George, and T. Sparham, Brockville, Ontario, Canada. Artificial arm and hand	329,878	Nov. 10	694	158	33	628
Beacock, George, and T. Sparham, Brockville, Ontario, Canada. Artificial limb	329,879	Nov. 10	695	158	33	628
Beacock, George, and T. Sparham, Brockville, Ontario, Canada. Artificial limb	329,880	Nov. 10	696	159	33	628
Beadle, Edward, <i>et al.</i> (See Martinez, Rafael, assignor.)						
Beadle, Joseph W., <i>et al.</i> (See Heron, John, assignor.)						
Beahm, Thomas G., Zanesville, Ohio. Culinary vessel	310,639	Jan. 13	613	169	30	123
Beal Lasting Machine Company. (See Libby, Asa S., assignor.)						
Beal, Sarah V., Ann Arbor, Mich. Bed-pan	330,548	Nov. 17	1505	402	33	807
Beal, Thomas W., Venice, Ill. Land-marker	328,561	Oct. 20	1380	359 360	33	266
Beale, Benjamin. (See Geiger and Beale.)						
Beale, Edmond, and A. Bangs, Philadelphia, Pa. Fire-escape	317,704	May 12	1040	270	31	720
Beale, Joseph H., Boston, Mass. Paper-calendering roll	328,639	Oct. 20	1500	390	33	287
Beale, Joseph H., Boston, Mass. Re-enforced paper fabric	320,614	June 23	2290	604	31	1488
Beale, Joseph H., Boston, Mass. Carpet-lining	320,615	June 23	2290	604	31	1488
Beall, Augustus W., Dayton, Ohio. Burner for gas-stoves	329,527	Nov. 3	146	37	33	533
Beall, John and W. L., Decatur, Ill. Grinding-mill	316,936	May 5	9	3	31	524
Beall, William L. (See Beall, John and W. L.)						
Beals, David K., Strasburg, Ill. Shears for iron	323,380	Aug. 4	9	3	32	594
Beals, Ebenezer, Norwich, N. Y. Ash-pan for locomotives	328,751	Oct. 20	1640	427	33	314
Beals, Thomas S., Detroit, Mich. Vest-protector	321,177	June 30	3017	799	31	1630
Beam, Henry T., Palestine, assignor of two-thirds to W. C. Jones, Robinson, and C. Butler, Edingham, Ill. Car-coupling	311,281	Jan. 27	1512	413	30	289
Beam, Henry T., Palestine, assignor of one-half to W. C. Jones, Robinson, Ill. Car-coupling	317,284	May 5	482	121	31	611
Beam, Henry T., Palestine, assignor of two-thirds to W. C. Jones and A. P. Woodworth, Robinson, Ill. Car-coupling	318,591	May 26	2235	597	31	958
Beam, Henry T., Palestine, assignor of two-thirds to W. C. Jones and A. P. Woodworth, Robinson, Ill. Car-coupling	319,174	June 2	291	78	31	1101
Beaman, Timothy L., Knoxville, Tenn. Street-railway rail	310,640	Jan. 13	614	169	30	123
Beaman, Timothy L., Knoxville, Tenn. Rail-chair	321,673	July 7	352	93	32	66
Bean, Albert B., New Haven, Conn. Cross-bar shoe for planing-machines	316,109	Apr. 21	1572	409	31	298
Bean, Albert B., New Haven, Conn. Friction-clutch	321,941	July 14	735	192 193	32	142
Bean, Albert B., New Haven, Conn. Friction-clutch	326,091	Sept. 15	1159	296	32	1244
Bean, Edward D., Boston, Mass. Cane-gun	329,430	Nov. 3	6	2	33	506
Bean, Edwin E., <i>et al.</i> , trustees. (See Norton, John A., assignor.)						
Bean, Henry F., Jackson, Mich. Leveling-rod	311,221	Jan. 27	1421	386 387	30	281
Bean, Roscoe, Springfield, Ohio. Wheel	315,995	Apr. 21	1416	368	31	269
Bean, Roscoe, and A. W. Grant, assignors to Tricycle Manufacturing Company, Springfield, Ohio. Vehicle-wheel	319,777	June 9	1084	288	31	1256
Beane, Frank E., <i>et al.</i> (See Armstrong, John B., assignor.)						
Bear, George H., <i>et al.</i> (See Donecker, Orin C., assignor.)						
Bear, Theophilous L., Camden, N. J. Watch-case spring	311,563	Feb. 3	143	41	30	375
Beard, Cornelius. (See Turner and Beard.)						
Beard, George M., assignor of one-half to W. H. Rakestraw, Auburn, Ind. Proportional balance	324,638	Aug. 18	1690	466	32	852
Beard, Horace, Wilton, N. H. Register or counter for machines, steam-engines, pumps, &c.	329,996	Nov. 10	777	200	33	657
Beard, Huntington, Fayetteville, N. Y. Pulley-block	322,290	July 28	2007	530	32	388
Beard, James P., Gadsden, Ala. Churn	326,936	Sept. 29	2337	612	32	1472
Beard, Lewis W., Arcadia, La. Frame building	318,592	May 26	2235	598	31	958
Beard, Robert R., and W. H. Oakley, Bermondsey, county of Surrey, England. Fluid-pressure regulator	320,549	Nov. 17	1506	403	33	807
Beard, Waller B., Jackson, Miss. Lumber-drier	321,336	June 30	3207	855	31	1666
Beard, William W., Sterling, Ohio. Harrow	333,193	Dec. 29	2807	784	33	1525
Beardslee, Marcus D., Milwaukee, Wis. Grain-scourer	315,997	Apr. 21	1419	369	31	270
Beardslee, Marcus D., assignor to Milwaukee Dust Collector Manufacturing Company, Milwaukee, Wis. Machine for cleaning grain	315,996	Apr. 21	1417	368	31	269
Beardslee, Nathan S., Warsaw, N. Y. Apparatus for the manufacture of salt	320,307	June 16	1687	448	31	1371
Beardslee, William F., Boston, Mass., assignor to Manufacturers Special Machine Company, Danbury, Conn. Sewing-machine	311,943	Feb. 10	644	177	30	476
Beardslee, William F., Boston, Mass., assignor to Manufacturers Special Machine Company, Danbury, Conn. Machine for making plaited goods	316,438	Apr. 28	2029	531 532	31	384
Beardslee, William F., Boston, Mass., assignor to Manufacturers Special Machine Company, Danbury, Conn. Adjustable cam or eccentric	324,639	Aug. 18	1692	466	32	852
Beardsley, William, Beacon, Iowa. Bottle-stopper	317,705	May 12	1041	270	31	721
Beardsley, Morison. (See French, Carmi M., assignor.)						
Beardy, David, New Castle, Ind. Lawn-mower	314,988	Apr. 7	2	1	31	3
Beasley, W. T. (See Saunders, George E., assignor.)						
Beatty, Dempster, Mishawaka, Ind. Manufacture of felted mittens and gloves	333,101	Dec. 29	2677	702	33	1504
Beatty, Laura A., Galesburg, Ill. Sawl-strap	310,641	Jan. 13	615	169	30	123
Beatty, John W., Erie, Pa. Sash-fastener	320,327	June 16	1883	494	31	1404
Beaudry, Zotique, Lynn, Mass. Jack for boots or shoes	316,867	Apr. 28	2617	692	31	464
Beaumont, Robert L., assignor to himself and J. J. Sheridan, St. Joseph, Mo. Strap-holder	322,151	July 14	1019	265	32	194
Beauregard, Napoleon, and G. J. Wheelock, San Francisco, Cal. Machine for straightening round bars	320,531	June 23	2176	574	31	1466
Beausjour, Urgel, East Saginaw, Mich. Car-coupling	313,977	Mar. 17	1295	337	30	1034
Beaver, George W., Mann's Choice, Pa. Thill-coupling	314,357	Mar. 24	1786	475	30	1135
Beaver, George W., assignor of three-fourths to H. Gregory, F. Leonard, and J. A. Wynne, Mann's Choice, Pa. Thill-coupling	325,648	Sept. 8	577	146	32	1130
Beavis, Arthur J., Monmouth, and F. S. Beavis, Peoria, Ill. Velocipede	318,532	May 26	2148	578	31	945
Beavis, Frank S. (See Beavis, Arthur J. and F. S.)						
Beavis, John, Cleveland, Ohio. Metal-rolling machine. (Reissue)	10,594	May 5	756	191	31	660
Beazell, John S., Chillicothe, Mo. Washing-machine	321,782	July 7	506	134 135	32	95
Becht, Albert L., Paris, France. Lock	317,076	May 5	192	49	31	558
Bechtel, William H., Brooklyn, N. Y. Portable fire-escape	322,778	July 21	1638	468	32	351
Beck, Charles F. (See Van Gestel and Beck.)						
Beck, Charles F., Paris, France, assignor to T. S. Harrison, Philadelphia, Pa. Electric light	322,033	July 14	857	223	32	164
Beck, Frederick, New York, N. Y. Stencil	316,225	Apr. 21	1719	451	31	325

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Beck, Frederick, New York, N. Y. Stencil.	318,943	June 2	7	2	31	1050
Beck, Frederick, New York, N. Y. Printing surface.	320,308	June 16	1688	449	31	1371
Beck, Frederick, New York, N. Y. Decorating wall-paper.	322,034	July 14	859		32	164
Beck, Frederick, New York, N. Y. Making printing rollers or blocks.	322,377	Dec. 15	1659		33	1306
Beck, James P., Lawrence, Kans. Combined stove lifter, rake, and poker.	323,845	Aug. 4	594	107	32	635
Beck, Robert M., Chambersburg, Pa. Governor for steam-engines.	317,285	May 5	483	122	31	611
Beck, Robert M., Chambersburg, Pa. Governor for steam-engines.	318,852	May 26	2579	686	31	1019
Becker, August, Arlington Heights, Ill. Take-up device for sewing-machines.	323,999	Aug. 11	797	222	32	680
Becker, Bernard E., Boston, assignor to J. A. Nelson, Brockton, Mass. Paper-box machine.	315,461	Apr. 14	667	173	31	125
Becker, Christopher, New Rochelle, N. Y. Weighing-scale.	313,468	Mar. 10	604	156	30	897
Becker, Frederick G., assignor to D. S. Morgan & Co., Brockport, N. Y. Harvester.	317,964	May 19	1396	375	31	796
Becker, George, assignor to Hancock, Becker & Co., Providence, R. I. Jewel-setting.	322,183	Dec. 8	1386	358	33	1253
Becker, Henry L., assignor of one-half to F. Will, Rochester, N. Y. Fruit-jar.	327,853	Oct. 6	449	117	33	79
Becker, Leander, deceased, N. C. Baughman administrator, and assignor to E. E. Johnston, York, Pa. Washing-machine.	325,312	Sept. 1	111	32	32	1036
Becker, Legrand, Rondout, N. Y. Compound jack.	314,560	Mar. 31	2064	551	30	1212
Becker, Victor H., Memphis, Tenn. Cooling coils of gas-condensers.	313,047	Mar. 3	13	3	30	781
Beckert, Andrew, Baltimore, Md. Balance-valve.	325,649	Sept. 8	878	146	32	1130
Beckman, Charles J., Council Bluffs, Iowa. Locking-bracket for curtain and other rods and rails.	322,502	Oct. 20	1382	360	33	267
Beckman, Henry. (See Wally and Beckman.)						
Becktel, Charles J., Muncie, Ind. Roller-skate.	321,337	June 30	3209	856	31	1666
Beckwith, Frank W., assignor of one-half to H. W. Fairbanks, Detroit, Mich. Box-fastener.	310,598	Apr. 28	2224	585	31	423
Beckwith, Frank W., assignor of one-half to H. W. Fairbanks, Detroit, Mich. Hinge.	322,239	July 14	1124	292	32	214
Beckwith, Russell H., New York, N. Y. Sewer-gas trap.	316,110	Apr. 21	1573	409	31	298
Beckwith, William H., Pittsburg, Pa. Vault-cover.	314,781	Mar. 31	2377	620	30	1270
Bedbury, George W., assignor to J. Bourne, Jr., Portland, Oreg. Car-axle.	317,706	May 12	1041	270	31	721
Beddall, Richard, Malden, Mass. Journal-bearing.	314,989	Apr. 7	3	2	31	3
Bedell, David E., Newark, N. J. Sash-fastener.	314,792	Mar. 31	2378	629	30	1270
Bedell, George E., Herkimer, N. Y. Spring-bed frame.	315,998	Apr. 21	1420	369	31	270
Bedell, George E., Herkimer, N. Y. Cot-bed.	319,055	June 2	149	41	31	1075
Bedell, George E., Herkimer, N. Y. Mattress-rack.	330,370	Nov. 17	1276	339	33	704
Bedinger, Daniel E., Richwood, Ky. Ruling apparatus.	329,699	Nov. 3	367	83	33	574
Bedinger, George W., near Joshua, Tex. Plow.	310,243	Jan. 6	102	28	30	21
Beebe, Allen G., Los Angeles, Cal. Mineral separator and amalgamator.	325,810	Sept. 8	803	202	32	1170
Beebe, Charles H., Norwich, Conn. Knob attachment.	318,694	May 26	2350	622	31	980
Beebe, Charles H., Norwich, Conn. Knob attachment.	331,112	Nov. 24	2237	606	33	953
Beebe, Charles S., Racine, Wis. Two-wheeled vehicle.	323,257	July 28	2517	662	32	482
Beebe, Gaylord W., Swanton, Vt. Sove-pipe.	314,783	Mar. 31	2380	629	30	1270
Beebe, Henry C., Canton, Ill. Grain-drill.	321,273	June 30	3135	835	31	1651
Beebe, Oscar, assignor of one-third to S. Mitchell, Hornellsville, N. Y. Sash-balance.	330,371	Nov. 17	1277	339	33	765
Beecher, Alice E. (See Gardner, William, assignor.)						
Beecher, Ebenezer B. (See Newton and Beecher.)						
Beecher, George B. (See Grodzinski and Beecher.)						
Beecher, James, and T. P. Smart, Philadelphia, Pa. Jack.	311,716	Feb. 3	331	92	30	411
Beecher, Thomas, assignor to J. H. Kearney, New Haven, Conn. Snap-hook.	322,674	July 21	1700	451	32	326
Beecher, Philip T., et al. (See Forrest, Hamlet E., assignor.)						
Beedy, Seth E., Farmington, Me. Telephonic transmitter.	329,001	Oct. 27	1994	518	33	385
Beekman, Gerard, New York, N. Y. Picking mechanism for cotton-harvesters.	313,276	Mar. 3	345	85	30	839
Beekman, Gerard, New York, N. Y. Picking rod or burr for cotton-harvesters.	313,977	Mar. 3	347	86	30	839
Beekman, Gerard, New York, N. Y. Cleaning mechanism for cotton-harvesters.	313,278	Mar. 3	349	86	30	839
Beekman, Gerard, New York, N. Y. Device for picking cotton.	332,865	Dec. 22	2342	619	33	1436
Beeman, Jedediah D. (See Atwood, George F., assignor.)						
Beerbower, George M., Cherry Vale, Kans. Barbed fence.	327,755	Oct. 6	328	84	33	58
Beers, Elbert H., Bethel, assignor to D. E. Rogers, Danbury, Conn. Commode-pail.	325,039	Aug. 25	2234	612	32	961
Beers, Martha J., Boston, Mass. Bathing-garment.	310,171	Jan. 6	13	4	30	5
Beery, Samuel M. (See Wood, Luther B., assignor.)						
Beery, Samuel M., Omaha, Nebr. Rail-chair.	318,685	May 26	2351	622	31	980
Beesley, Frederick, London, England. Lock for breakdown guns.	320,040	June 16	1465	385	31	1331
Beetschenow, William C., Newark, N. J. Safety-pocket for watches.	327,854	Oct. 6	449	117	33	79
Beghtel, Eli, Huntington, Ind. Portable sawing-machine.	329,002	Oct. 27	1976	519	33	386
Bégin, Louis N., Faribault, Minn. Rotary steam-engine.	332,040	Dec. 8	1178	309	33	1217
Begley, Philip T., assignor to Pettie Machine Works, Newton Upper Falls, Mass. Carding-machine.	323,021	July 28	2193	581	32	422
Begtrup, Julius, Elizabeth, N. J. Steam-engine governor.	326,092	Sept. 15	1160	296	32	1244
Behm, Joseph, San José, Cal. Ore separator and concentrator.	320,998	June 30	2784	740	31	1587
Behrens, Henry C., Baltimore, Md. Fishing-line float.	322,028	July 14	920	241	32	178
Behrens, Robert H. F., Hamburg, Germany. Flower-stand.	318,593	May 26	2236	598	31	948
Behrens, Robert H. F., Hamburg, Germany. Flower-stand.	312,853	May 26	2281	627	31	1020
Behringer, Charles, assignor to Turnbull Wagon Company, Defiance, Ohio. Wagon-brake.	321,178	June 30	3019	799	31	1630
Beidler, Theodore F. (See Phillips, Edward, assignor.)						
Beilby, George T., Midcaldor, county of Mid-Lothian, Scotland. Air-thermometer.	320,749	June 23	2452	650	31	1520
Beimling, Henry, assignor of two-thirds to L. Krautter and G. H. Orcutt, Philadelphia, Pa. Centrifugal creamer.	327,756	Oct. 6	328	84, 5	33	58
Beishelm, Henry, assignor to C. E. Rider, Rochester, N. Y. Apparatus for uniting wood for floor-coverings.	320,616	June 23	2291	605	31	1488
Beisinger, Frederick, assignor of one-half to F. Widmer, Newark, N. J. Beer cooling and preserving apparatus.	315,699	Apr. 14	995	261	31	187
Bekofsky, Vladimir S., Jenechuan, Corea. Hair-cutting machine.	327,512	Oct. 6	4	1	33	3
Belanger, Eusebe B. (See Belanger, Frank S. and E. B.)						
Belanger, Frank S. and E. B., Waterbury, Conn. Pulley.	321,179	June 30	3019	799	31	1630
Belcher, Henry F., Irvington, N. J. Mosaic of glass and lead glazing.	317,077	May 5	193	49	31	558
Belden, Alvin J., et al. (See Van Zandt, Jacob, assignor.)						
Belden Company, R. A. (See Belden, Russell A., assignor.)						
Belden, Edwin S., San Francisco, Cal. Type-writing machine.	310,244	Jan. 6	102	28, 29	30	22
Belden, Edwin S., San Francisco, Cal. Type-writing machine.	315,700	Apr. 14	996	261	31	187
Belden, Edwin S., San Francisco, Cal. Type-writing machine.	315,701	Apr. 14	998	262	31	188

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Belden, Edwin S., San Francisco, Cal. Type-writing machine	315,702	Apr. 14	999	283	31	186
Belden, Edwin S., San Francisco, Cal. Type-writing machine	324,520	Aug. 18	1518	{ 418 419 }	32	819
Belden, Emerson, assignor of one-half to A. Crampton, Green Island, N. Y. Door or shutter	315,111	Apr. 7	166	40	31	31
Belden, Russell A., Danbury, Conn., assignor to R. A. Belden Company. Turn-table for hat-forming machines	331,180	Nov. 24	2331	631	33	970
Belden, Russell A., Danbury, Conn., assignor to R. A. Belden Company. Bearing for fur-blowing machines	331,181	Nov. 24	2333	{ 631 632 }	33	970
Belding, Edgar F., Fitchburg, Mass. Leather-skiving machine	320,909	June 16	1689	449	31	1371
Belding, William R., Eureka Springs, Ark. Spring-link	315,923	Apr. 7	347	84	31	62
Belding, William R., Mountain View, Ark. Fire-place grate	333,382	Dec. 29	3062	798	33	1571
Belduke, Joseph, San Francisco, Cal. Screw-propeller	329,528	Nov. 3	146	37	33	533
Belfrage, Robert M., Cannonville, N. Y. Reeding upper top-sails	313,979	Mar. 3	351	86	30	840
Bell, Frank, Hastings, Neb. Washing-machine	326,708	Sept. 22	1984	521	32	1403
Belina, Wencel J., assignor of one-half to J. W. Kaplaw, Owatonna, Minn. Conveyer-apron for harvesters	318,442	May 26	2025	{ 545 546 }	31	921
Belknap, Charles J., and F. W. Wood, Bridgeport, Conn. Roller-skate	327,222	Sept. 29	2711	705	32	1540
Belknap, Hamlet W., assignor, by means assignments, to himself, H. C. Bartlett, Bradford, N. H., and J. A. Hartshorn, Boston, Mass. Composition for lubricating metallic surfaces	317,490	May 12	768	.....	31	671
Belknap, Lewis B., Newton, Mass. Fastening for overshoes	325,050	Sept. 8	579	147	32	1130
Belknap, Samuel C., and T. H. Fye, Zanesville, Ohio. Overshoe	313,161	Mar. 3	173	41	30	806
Belknap, Willis H., New York, N. Y. Umbrella or parasol canopy	315,324	Apr. 7	347	85	31	63
Belknap, Willis H., New York, N. Y. Lamp-shade	321,942	July 14	736	193	32	142
Bell, Adam H., Hillsborough, Ill. Bundle-dropper for harvesters	320,750	June 23	2454	650	31	1521
Bell, Alonzo, Philadelphia, Pa. Bed or furniture spring connection	323,555	Aug. 4	229	67	32	564
Bell, Alonzo, Washington, D. C. Car-ventilation	325,040	Aug. 25	2234	613	32	961
Bell, Andrew J., Manchester, county of Lancaster, England. Rope pulley-block	311,169	Jan. 27	1333	367	30	967
Bell, Azel H., Belle Plaine, Iowa. Harrow	325,151	Aug. 25	2371	653	32	986
Bell, Benjamin F., Yates Center, Kans. Hand hedge-trimmer	316,937	May 5	10	3	31	524
Bell, C. M., et al. (See Cathcart, James L., assignor.)						
Bell, Charles. (See Smith and Bell.)						
Bell, Henry, New York, N. Y. Caustic-holder	314,490	Mar. 24	1865	496	30	1151
Bell, J. Wood, et al. (See Cathcart, James L., assignor.)						
Bell, James E., et al. (See Cathcart, James L., assignor.)						
Bell, John E. (See Dick, George, assignor.)						
Bell, John H., Mount Ephraim, N. J. Steam-boiler	330,458	Nov. 17	1393	371	33	796
Bell, John W., et al. (See Reznor, George, assignor.)						
Bell, Joseph. (See Brown, Barnes, and Bell.)						
Bell, Robert C., et al. (See White, Luther N., assignor.)						
Bell, Samuel H., Pinckneyville, Ala. Guano-distributor	310,642	Jan. 13	616	170	30	123
Bell, Stephen B., Cedartown, Ga. Cultivator	325,723	Sept. 8	666	171	32	1148
Bell, Thomas, Catskill, N. Y. Elevator	313,162	Mar. 3	173	42	30	809
Bell, Thomas H. (See Ramsay, William, assignor.)						
Bell, Vernon, New York, N. Y. Drawers	319,175	June 2	292	78	31	1101
Bell, Webster, Boston, Mass. Winding-stop for watches	316,226	Apr. 21	1720	452	31	325
Bell, William. (See Conley, Michael R., assignor.)						
Bell, William. (See Lipsey, Andrew B., assignor.)						
Bell, William. (See Miller, Sylvanus E., assignor.)						
Bell, William, assignor of one-half to L. Kimball, Verona, Miss. Railway-gate and means for preventing injury to stock on railroads	314,990	Apr. 7	4	2	31	3
Bell, William G. (See Otis, Elisha W., assignor.)						
Bell, William H., Cloverdale, Cal. Ironing-table	313,920	Mar. 3	352	87	30	840
Bellamy, Charles L., Arlington, N. J. Manufacture of knife-blades	319,442	June 9	638	173	31	1176
Bellamy, Charles L., Arlington, N. J. Trace-fastener	319,546	June 9	789	208	31	1201
Bellamy, John, Boston, Mass. Knob attachment	324,640	Aug. 18	1692	466	32	852
Bellamy, Luther H., Brockville, Ontario, Canada. Horseshoe	329,700	Nov. 3	368	93	33	575
Belle Patent Button Fastener Company. (See Woodward, Erastus, assignor.)						
Bellman, Oscar, assignor of one-half to S. D. Martin, Hagerstown, Md. Pipe-elbow scriber	318,843	May 26	2571	684	31	1018
Bellmann, Charles, Barton, Wis. Draft-equalizer	310,977	Jan. 20	1064	289	30	210
Belt, Perley P., Columbus, Kans. Key and pounder	318,554	May 26	2592	687	31	1020
Belter, F. Samuel, Burlington, Vt. Planing-machine	331,606	Dec. 1	543	132	33	1083
Beltz, William, Denver, Dak. Ter. Bundle-carrier for harvesters	330,459	Nov. 17	1395	371	33	786
Belus, Adolf, Brooklyn, N. Y. Construction of vessels	321,569	July 7	223	59	32	44
Bement, Robert B. C. (See Richer, Victor E., assignor.)						
Bemis & Call Hardware and Tool Company. (See Call, Amos, assignor.)						
Bemis Car Box Company. (See Bemis, Sumner A., assignor.)						
Bemis, George W., Sr., Cincinnati, Ohio. Railway-track to be used in connection with variable railway-trucks	313,978	Mar. 17	1296	337	30	1034
Bemis, George W., Sr., and T. Bemis, Cincinnati, Ohio, assignors of one-third to J. W. Roberts, Indianapolis, Ind. Car-axle box	318,855	May 26	2582	688	31	1020
Bemis, M. Melvin. (See Wilson, Charles F., assignor.)						
Bemis, Sumner A. (See Emory, Paschal P., assignor.)						
Bemis, Sumner A., Springfield, Mass., assignor to Bemis Car Box Company, New York, N. Y. Car-axle box	311,717	Feb. 3	331	92	30	411
Bemis, Sumner A., assignor to Bemis Car Box Company, Springfield, Mass. Car-wheel and axle-box	330,372	Nov. 17	1279	340	33	765
Bemis, Thomas. (See Bemis, George W., Sr., and T.)						
Bench, William, Auburn, N. Y. Tongue-support for wagons	312,246	Feb. 17	1075	296	30	563
Bencke, Herman, and P. Lorillard, Jr., New York, N. Y. Transparent picture	315,703	Apr. 14	1001	263	31	188
Bender, Albert N., Manhattan, Kans. Stove-polish	329,529	Nov. 3	148	.....	33	533
Bender, August, New York, N. Y. Powder-puff	319,056	June 2	151	41	31	1075
Bender, John T. (See Ball and Bender.)						
Bender, John W., and J. C. Hinkle, Shippensburg, Pa. Plaster-of-paris splint	322,775	Aug. 4	514	144	32	619
Bendor, Randolph E. (See Garrison, Samuel R., assignor.)						
Bendick, Max, New York, N. Y. Stencil	325,041	Aug. 25	2235	613	32	961
Benedict & Burnham Manufacturing Company. (See Blackham, Eli J., assignor.)						
Benedict, George H., Chicago, Ill. Cabinet exercising apparatus	332,989	Dec. 22	2515	{ 664 665 }	33	1468
Benedict, Jacob, assignor to J. M. Wheeler, W. Green, A. B. Knowlson, J. S. Cowin, and A. L. Sibley, Grand Rapids, Mich. Folding table	310,245	Jan. 6	105	29	30	22
Benedict, R. Watson. (See Tuttle and Benedict.)						
Benedict, Read, New Brighton, and H. M. Scott, Brooklyn, N. Y. Button or stud	332,152	July 14	1019	285	32	194

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Benedict, Washington G., Boston, Mass. Pneumatic cannon	314,991	Apr. 7	5	2	31	4
Benedict, William, Tunkhannock, Pa. Potato-digger	311,635	Feb. 3	235	66	30	393
Bénézit, Antoine, Villeneuve-sur-Lot, France. Alarm for shop-doors	315,999	Apr. 21	1421	369	31	270
Benham, Elijah B., Holyoke, and H. B. Richardson, Amherst, Mass. Motor	323,258	July 28	2517	668 669	32	489
Benham, Elijah B., Groton, and C. R. Watrous, said Benham assignor to S. A. and S. S. Whipple, Ledyard, Conn. Nut-cracker	322,240	July 14	1125	293	32	214
Benham, William P., assignor to Pope Manufacturing Company, Hartford, Conn. Velocipede	310,776	Jan. 13	792	214	30	156
Benjamin, Amedee J., Valley Falls, R. I. Magazine spring-gun	325,042	Aug. 25	2236	613	32	961
Benjamin, Edson M., Hartford, Conn. Step-ladder	327,513	Oct. 6	5	2	33	3
Benjamin, George G., New York, N. Y. Music-leaf turner	321,570	July 7	294	60	32	44
Benjamin, George H. (See Corning, Frederick G., assignor.)						
Benjamin, George H., Short Hills, N. J. Glass-melting furnace	312,422	Feb. 17	1316	363	30	609
Benjamin, George H., Short Hills, N. J. Underground conduit for electrical conductors ..	315,225	Apr. 7	349	85	31	63
Benjamin, George V. (See Hopkins, Garrett W., assignor.)						
Benjamin, George V., Ithaca, N. Y. Snow-plow with snow-cutters	328,640	Oct. 20	1501	391	33	287
Benjamin, John C., Bridgeport, Conn. Tubular boiler	330,202	Nov. 10	1048	273	33	712
Benjamin, Park, Brooklyn, N. Y. Wire bale-tie	311,222	Jan. 27	1422	387	30	282
Benjamin, William C. (See Wren, William C., assignor.)						
Benner, Lorenzo D., Peoria, Ill. Check-rower	312,179	Feb. 10	987	269	30	538
Benner, Lorenzo D., Peoria, Ill. Corn-planter check-rower	321,077	June 30	2892	769	31	1607
Bennet, David S. B. (See Fenton and Bennet.)						
Bennett, Andrew R., Utica, N. Y. Asbestos or amianthus stove and furnace pipe	326,093	Sept. 15	1161	297	32	1244
Bennett, Andrew R., Utica, N. Y. Decorated stove-pipe	326,094	Sept. 15	1162	297	32	1244
Bennett, Benjamin, Pittsburg, Pa. Glassware	315,462	Apr. 14	670	174	31	125
Bennett, Benjamin, Pittsburg, Pa. Glassware. (Reissue.)	10,609	June 16	2066	543	31	1438
Bennett, Benjamin F., Lockport, N. Y. Automatic self-setting wrench	323,740	Aug. 4	515	145	32	619
Bennett, Charles H., Blossburg, assignor to himself and J. L. Higgins, Arnot, Pa. Pump ..	319,547	June 9	783	908	31	1201
Bennett, Clarence M., Jenkintown, Pa. Car-coupling	314,421	Mar. 24	1866	497	30	1151
Bennett, George H., Cincinnati, Ohio. Pump	330,669	Nov. 17	1651	444	33	837
Bennett, Harnell L., Westerville, Ohio. Stump-puller	326,085	Sept. 15	1162	297	32	1244
Bennett, Jackson W., Carthage, Mo. Farm-gate	327,992	Oct. 13	631	167	33	121
Bennett, James D. (See Barker, Irving, assignor.)						
Bennett, John B. (See Gilliland, James F., assignor.)						
Bennett, John F., Pittsburg, Pa. Apparatus for the conveyance of fluids	312,318	Feb. 17	1181	323 324	30	583
Bennett, John M., assignor to S. C. Tatum & Co., Cincinnati, Ohio. Broom-rack	319,176	June 2	293	78	31	1102
Bennett, John M., assignor to S. C. Tatum & Co., Cincinnati, Ohio. Window-garden ..	324,291	Aug. 11	1207	329	32	755
Bennett, Strong M., and J. H. Sullivan, Mexico, N. Y. Vehicle-axle	316,439	Apr. 28	2030	532	31	385
Bennett, Theodore G. (See Smith, John S., assignor.)						
Bennett, Thomas G., assignor to Winchester Repeating Arms Company, New Haven, Conn. Percussion-fuse for projectiles	320,210	June 16	1622	450	31	1372
Bennett, Thomas H., assignor of two-thirds to D. L. Gouch, Ironton, and A. L. Stout, Dayton, Ohio. Puddling and heating furnace	311,802	Feb. 3	439	119	30	431
Bennett, Thomas O., Atlantic Mine, Mich. Metal mold	325,043	Aug. 25	2237	614	32	962
Benner, Lorenzo D., Peoria, Ill. Check-rower for corn-planters	321,943	July 14	737	193	32	142
Benner, Joseph, Philadelphia, Pa. Commode	322,691	July 28	2008	530	32	388
Bennyworth, John, Kinsley, Kan. Cane-mill	312,078	Feb. 10	825	225	30	510
Benoit, Joseph, New Braunfels, Tex. Windmill	312,795	Feb. 24	1820	500	30	710
Bense, John, and A. Sievert, Rocky Ridge, Ohio. Post-hole auger	317,491	May 12	769	196	31	671
Bensel, Peter C., New York, N. Y. Clock	321,674	July 7	353	93	32	66
Benson, B. D. (See Warren, Benjamin F., assignor.)						
Benson, Benjamin S., Baltimore, Md. Surface-condenser	326,752	Oct. 20	1641	426	33	314
Benson, John. (See Hewitt, Benjamin J., assignor.)						
Benson, Leander C., and E. F. Perry, Susquehanna, Pa. Siding-gage	325,611	Sept. 8	804	202	32	1170
Benson, Oliver, Hinesdale, N. Y. Sash-fastener	310,930	Jan. 20	991	269	30	196
Benson, William H., Chicago, Ill. Machine for dressing fine-cut tobacco	312,796	Feb. 24	1822	501	30	710
Bent, Roderic L., Gardner, Mass. Tray for children's chairs	317,707	May 19	1042	271	31	721
Bentel, Frederick, assignor to J. W. Sohn, Hamilton, Ohio. Horse hay-rake	324,000	Aug. 11	728	222	32	680
Bentley, Edward M., Brooklyn, N. Y. Electric railway	322,517	July 21	1502	395	32	229
Bentley, John, Birmingham, county of Warwick, England. Screw-stock	327,223	Sept. 29	2712	706	32	1640
Bentley, Richard W., Brooklyn, N. Y. Ruling and engraving machine	313,648	Mar. 10	829	216 217	30	941
Bentley, Travis C., Pattonville, Tex. Bed-bottom	316,227	Apr. 21	1721	452	31	325
Benton, Alexander R., Boston, Mass., assignor to S. G. Nail Company, Portland, Me. Machine for drawing wire	321,478	July 7	95	25	32	19
Benton, Charles H. (See Grubbe, Hubert H., assignor.)						
Benton, Charles H., Cleveland, Ohio. Holder for incandescent lamps	326,618	Nov. 3	266	68	33	556
Benton, Fred H. (See Scott, James A., assignor.)						
Benton, John B., Roselle, N. J., assignor to Standard Cancelling Ballot Box Company, Boston, Mass. Registering and cancelling ballot-box	327,644	Oct. 6	191	47, 8	33	35
Benton, John B., Roselle, N. J., assignor to Standard Cancelling Ballot Box Company, Boston, Mass. Registering and cancelling ballot-box	327,645	Oct. 6	196	48, 9	33	35
Benton, John B., New York, assignor to Railway Register Manufacturing Company, Buffalo, N. Y. Fare-registering machine	332,866	Dec. 22	2343	619 620 621	33	1436
Benton, Linn B. (See Baas and Benton.)						
Benton, Linn B., assignor to Benton, Waldo & Co., Milwaukee, Wis. Punch-cutting machine	327,855	Oct. 6	450	117 118	33	79
Benton, Linn B., assignor to Benton, Waldo & Co., Milwaukee, Wis. Punch-cutting machine	332,990	Dec. 22	2512	665	33	1469
Benton, Russell O., Buffalo, N. Y. Thawing hydrants or water-pipes	329,881	Nov. 10	628	159	33	629
Benton, Waldo & Co. (See Baas and Benton, assignors.)						
Benton, Waldo & Co. (See Benton, Linn B., assignor.)						
Benz, Carl, Mannheim, Baden, Germany. Gas-engine	316,868	Apr. 28	2619	662	31	494
Borbecker, Julius, New York, N. Y. Lambrequin-pin	323,259	July 28	2519	669	32	482
Borgan, John A., Holden, assignor of one-half to C. W. Gilbert, Worcester, Mass. Let-off mechanism for looms	331,274	Dec. 1	8	2	33	1002
Bergen, Garret. (See Geran, Josiah P., assignor.)						
Berger, George, and A. M. Harris, Concordia, Mo. Sheaf-carrier	322,779	July 21	1839	488	32	351
Berger, Herman, Milwaukee, Wis. Feather-renovator	324,521	Aug. 18	1521	419	32	220

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Berger, John L., <i>et al.</i> (See Armstrong, George S., assignor.)						
Berger, William H., Philadelphia, Pa. Eaves-trough hanger	324,213	Aug. 11	1108	299	32	736
Berger, Wilson C., Canton, Ohio. Eaves-trough hanger	321,180	June 30	3020	800	31	1630
Bergès, Aristide, Grenoble, Isère, France. Valve	314,784	Mar. 31	2380	630	30	1270
Bergh, Bror F., New York, N. Y. Car brake and starter	315,704	Apr. 14	1002	264	31	188
Bergheim, George L. (See König, August, assignor.)						
Bergin, Michael F., <i>et al.</i> (See Winters, John B., assignor.)						
Bergland, Andrew. (See Henderson and Bergland.)						
Bergmann & Co. (See Bergmann, Sigmund, assignor.)						
Bergmann & Co. (See Johnson, Edward H., assignor.)						
Bergmann & Co. (See Kidder, Charles L., assignor.)						
Bergmann & Co. (See Klein, Philip H., Jr., assignor.)						
Bergmann & Co. (See Lange, Philipp, assignor.)						
Bergmann, Otto. (See Roesgen, Mathias, assignor.)						
Bergmann, Edward H., Cimarron, N. Mex. Ter. Fire-escape	324,914	Aug. 25	2065	565	32	929
Bergmann, Sigmund, New York, N. Y. Safety catch-plug for electric circuits	319,384	June 2	547	149	31	1152
Bergmann, Sigmund, assignor to Bergmann & Co., New York, N. Y. Socket for incandescent electric lamps	311,100	Jan. 20	1240	340	30	942
Bergmann, Theodor, Gaggenau, Baden, Germany. Spittoon	311,636	Feb. 3	236	66	30	393
Bergmann, Theodor, Gaggenau, Baden, assignor to Gebr. Stollwerck, Cologne-on-the-Rhine, Germany. Siphon-bottle	320,751	June 23	2455	651	31	1321
Bergsten, Joseph, Rockford, Ill. Towel-rack	320,211	June 16	1694	450	31	1372
Bering, James E., Decatur, Ill. Corn-planter check-rower	315,226	Apr. 7	352	86	31	63
Berkey, Julius, Grand Rapids, Mich. Caster	318,533	May 26	2149	579	31	945
Berman, Edward, London, county of Middlesex, England, assignor to B. Blumenthal, New York, N. Y. Button	310,361	Jan. 6	271	74	30	52
Berman, Elias, Los Angeles, Cal. Watchman's time-detector	331,750	Dec. 8	776	196	33	1145
Bernadac, Jean, New Iberia, La. Tool for trimming horses' hoofs	326,831	Sept. 22	2184	570	32	1437
Bernard, George, <i>et al.</i> (See Larkin, John C., assignor.)						
Bernard, Lambert. (See Lempereur and Bernard.)						
Bernard, William A., Danville, Va. Combined nail and ear cleaner	324,001	Aug. 11	799	222	32	680
Bernardin, Alfred L., Evansville, Ind. Combined metallic cap and fastener for bottles	314,358	Mar. 24	1787	475	30	1135
Bernardin, Alfred L., Evansville, Ind. Combined metallic cap and fastener for bottles	314,359	Mar. 24	1788	475	30	1136
Bernardin, Alfred L., Evansville, Ind. Bottle-washing apparatus	323,562	Dec. 15	1951	511	33	1358
Berneike, Johannes G. and M. L., Brooklyn, N. Y. Terrestro-siderial sphere	320,959	June 30	2785	740	31	1587
Berneike, Johannes G. and M. L., Brooklyn, N. Y. Tellurian	321,000	June 30	2788	741	31	1588
Berneike, M. Louis. (See Berneike, Johannes G. and M. L.)						
Berney, Alfred, Boston, Mass. Fire-box muffler	319,778	June 9	1085	289	31	1257
Bernhamer, Edward R., Indianapolis, Ind. Harrow	322,241	July 14	1126	283	32	214
Bernitter, Adolph, New York, N. Y. Scroll-saw article	321,571	July 7	925	60	32	44
Bernstein, Alexander, Boston, Mass. assignor to Bernstein Electric Light Manufacturing Company, Portland, Me. Holder for incandescent electric lamps	319,177	June 2	204	78	31	1102
Bernstein Electric Light Manufacturing Company. (See Bernstein, Alexander, assignor.)						
Bernstein, Meyer, New York, N. Y. Guard for buckles for wearing-apparel	318,230	May 19	1744	466	31	861
Bernstein, William F., Philadelphia, Pa. Bed-bottom	319,178	June 2	295	79	31	1102
Berrell, George B., Willow Grove, Pa. Spring-propelled vehicle	322,003	Oct. 27	1997	519	33	386
Berrens, Hippolite, Barcelona, Spain. Apparatus for extracting mercury from its ores	331,860	Dec. 8	913	236	33	1169
Berrien, Leonard B. (See Avery and Berrien.)						
Berrigan, William. (See Newman and Berrigan.)						
Berrill, John A., Waterville, N. Y. Double-grinding paint-mill	321,675	July 7	355	94	32	67
Berry, David, Balltown, Pa. Casing-head for oil, gas, and other deep-bored wells	322,242	July 14	1126	293	32	214
Berry, John, Biddford, Me. Pharmaceutical still	313,163	Mar. 3	175	42	30	809
Berry, John, assignor to National Needle Company, Springfield, Mass. Machine for grinding the ends of wires	324,641	Aug. 18	1694	467	32	853
Berry, John A., Detroit, Mich. Egg-carrier	312,319	Feb. 17	1185	324	30	564
Berry, Pembroke B. (See Huff, Mark S., assignor.)						
Berry, Selby C., Williamstown, W. Va. Stuffing-box for steam-engines	326,384	Sept. 15	1560	405	32	1318
Berry, Thomas H., Philadelphia, Pa. Apparatus for distilling wood	322,320	Dec. 15	1577	414	33	1294
Berst, Conrad, Orville, Ohio. Churn	315,227	Apr. 7	352	86	31	63
Berteaux, Georges, assignor to G. W. Ennis & Co., Philadelphia, Pa. Woven fabric	323,276	Dec. 29	2926	768	33	1548
Berthelot, Victor, Cannon Store, La. Hook-buckle	326,385	Sept. 15	1561	405	32	1318
Berthon, Alfred, Paris, France. Telephone-transmitter	319,548	June 9	784	208	31	1202
Berthon, Louis A., assignor to Société Générale des Téléphones, Paris, France. Telephonic circuit and apparatus	311,944	Feb. 10	646	177	30	476
Bertram, Wilhelm, Lauban, Silesia, Germany. Lamp-burner	322,035	July 14	861	223	32	164
Beseler, Charles, New York, N. Y. Oxygen-gas attachment for gas-burners	318,161	May 19	1650	441	31	843
Bessac, Henry B. (See Gardner, Addison E., assignor.)						
Bessette, Frank B. and L. E., St. Cloud, Minn. Buckboard-wagon	318,534	May 26	2150	579	31	945
Bessette, Luke E. (See Bessette, Frank B. and L. E.)						
Best, Clearmont V., Canton, Ohio. Vapor-burner	312,247	Feb. 17	1076	297	30	564
Best, Daniel, Albany, Oreg. Grain-cleaner	313,911	Mar. 17	1197	311	30	1016
Best, Ezra, Quincy, Ill. Oil-cup	314,360	Mar. 24	1789	476	30	1136
Best, Frederick W. E., <i>et al.</i> (See Norling, Charles A., assignor.)						
Best, George. (See Smith, Lucien P., assignor.)						
Best, James F., Galva, Ill. Harness-maker's stitching-horse	312,073	Feb. 10	826	225	30	510
Bestor, Francis L. (See Baker and Bestor.)						
Bestor, Francis L., <i>et al.</i> (See Baker, Charles H., assignor.)						
Bestor, Francis L., assignor to two-thirds to C. H. Baker, Knoxville, and T. C. Cunningham, Sionnurey, Iowa. Truck	310,362	Jan. 6	272	75	30	52
Bestwick, Samuel. (See Kay, Edward, assignor.)						
Bettendorf, William P., Peru, Ill. Hub	329,004	Oct. 27	2001	520	33	367
Bettendorf, William P., assignor to himself and Peru City Plow Company, Peru, Ill. Wheel	325,585	Sept. 1	491	123	32	1109
Bettendorf, William P., assignor to himself and Peru City Plow Company, Peru, Ill. Plow and planter	329,123	Oct. 27	2175	563	33	416
Bettreton, Elijah T., Atlanta, Tex. Harrow	323,104	July 28	2311	611	32	444
Betts, Charles L., assignor of one-half to Chicago Manufacturing Company, Chicago, Ill. Torch-lamp	316,440	Apr. 28	2031	532	31	385
Betts, Lewis F., New York, N. Y., assignor to J. H. Irwin, Morton, Pa., and R. E. Dietz, New York, N. Y. Stove	326,386	Sept. 15	1562	406	32	1318
Betts, Robert W., Montclair, N. J. Pulley	318,686	May 26	2332	628	31	960
Betts, Robert W., assignor to J. Crump, Montclair, N. J. Paper box	327,224	Sept. 29	2713	706	32	1540

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Betty, Alonzo A., Butler, Ill. Sulky-plow	322,243	July 14	1127	294	32	215
Betty, William, New York, N. Y. Armpit-shield	312,320	Feb. 17	1186	324	30	584
Beurmann, Lawriston R., East Saginaw, Mich. Saw-tab	311,170	Jan. 27	1334	367	30	267
Beury, George W. (See France, Yale, and Beury.)						
Bevan, William, London, England. Safety attachment for bicycles	319,385	June 2	549	149	31	1152
Bever, Fielding B., Ottawa, Kans. Driving-rein spur	319,179	June 2	296	79	31	1102
Beverstein, Daniel E., Middlebury, Ind. Sash-balance	328,563	Oct. 20	1364	360	33	967
Bex, Frederick, and E. F. Hennsch, Washington, D. C. Two-wheeled vehicle	332,777	Dec. 22	2227	587	33	1416
Beyerlen, Angelo, Chicago, Ill. Steno-typograph	331,275	Dec. 1	10	3	33	1002
Beyerly, William G., Portsmouth, Ohio. Button	328,763	Oct. 20	1642	428	33	314
Beyrich, Richard W. (See Schmidt, John J. G. C., assignor.)						
Beystrum, John, Pittsburg, Pa. Rotary steam-engine	311,718	Feb. 3	332	92	30	419
Bezanson, Camille, New York, N. Y. Steam-boiler	312,423	Feb. 17	1318	363	30	609
Bianchi, Gerolamo, Genoa, Italy. Rigging for sails of vessels	328,583	Dec. 15	1952	511	33	1358
Bibb, William C., Atlanta, Ga. Machine for crushing ores, phosphates, &c.	333,383	Dec. 29	3063	799	33	1571
Bickel, John F. (See McCarty, Harry C., assignor.)						
Bickel, J. M. (See Deering, John R., assignor.)						
Bickford, Erskine F. (See West, Thomas F., assignor.)						
Bickford, Willis J., North Attleborough, Mass. Dental jaw-brace	323,627	Aug. 4	326	93	32	583
Bickle, Henry J., Dunganon, Ontario, Canada. Hame tug and buckle	321,244	July 14	739	193	32	143
Bickley, John H., Dover, N. J. Fence	319,057	June 2	151	41	31	1075
Bickmore, Albion F., Hyde Park, Mass. Gimbal-joint	315,112	Apr. 7	168	41	31	31
Bicknell, John E., Cleveland, Ohio. Apparatus for separating oil-vapors	313,979	Mar. 17	1297	338	30	1034
Bicknell, William A. P., New York, N. Y., assignor to D. S. Hines, W. A. Perry, and C. C. Worthington. Steam-actuated valve	320,212	June 16	1694	450	31	1372
Bickner, Samuel R., Dedham, Mass. Window-blind	330,303	Nov. 10	1049	274	33	712
Bidelman, Robert M. (See Bury and Bidelman.)						
Bidwell, Benson, Philadelphia, Pa. Electric railway	315,113	Apr. 7	169	41	31	31
Bidwell, Benson, Philadelphia, Pa., assignor of one-half to C. F. Bidwell, Indianapolis, Ind. Electric railway	318,594	May 26	2237	599	31	958
Bidwell, Charles F. (See Bidwell, Benson, assignor.)						
Bidwell, Julius A., Ivanpah, Cal. Amalgamating-pan	313,164	Mar. 3	176	43	30	809
Bier, Henry. (See Meyer and Bier.)						
Bierbach, Albert G., Milwaukee, Wis. Fire-escape	329,256	Oct. 27	2363	611	33	452
Bierce, Calvin A., et al. (See Jeffrey, Henry D., assignor.)						
Bierer, George W., Pittsburg, Pa. Apparatus for removing coke from ovens	314,510	Mar. 24	1095	531	30	1172
Biérix, Vincent, St. Etienne, France. Furnace for preparing artificial fuel	319,180	June 2	297	79	31	1103
Bigelow, Albert S., assignor to Eureka Spund Apparatus Company, Rochester, N. Y. Pressure-regulator for fermenting liquids	324,642	Aug. 18	1696	467	32	853
Bigelow, George W., New Haven, Conn. Steam-engine governor	310,363	Jan. 6	272	75	30	52
Bigelow, John, Philadelphia, Pa. Mechanism for making zigzag or irregular stitches	313,801	Mar. 10	1039	267	30	978
Bigelow, John, Philadelphia, Pa. Trimming attachment for sewing-machines	313,802	Mar. 10	1040	267	30	979
Bigelow, John, Philadelphia, Pa. Machine for trimming hat-brim curls	317,286	May 5	485	122	31	611
Bigelow, John, Philadelphia, Pa. Sewing-machine	331,026	Nov. 24	2116	573	33	931
Bigelow, John, Philadelphia, Pa. Sewing-machine	331,027	Nov. 24	2118	573	33	932
Bigelow, Nicholas V., and A. Whitbeck, Wolcott, N. Y. Hay elevator and conveyer	328,453	Oct. 20	1240	322	33	241
Bigelow, William P., Natick, Mass., assignor to Merchants' Store Service Company, Portland, Me. Cash and package carrier	330,869	Nov. 24	1917	520	33	894
Biggeon, Charles, Cincinnati, Ohio. Bed-bottom	326,096	Sept. 15	1164	298	39	1944
Biggs, David, Castleton Corners, N. Y. Filter	315,463	Apr. 14	671	174	31	126
Biggs, Frederick J., London, England. Latch and lock combined	311,637	Feb. 3	238	67	30	394
Bihler, Anthony, Rochester, N. Y. Spring	318,535	May 26	2150	579	31	945
Bihn, George F., assignor to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Obtaining hydrate of alumina for paper-makers' use from bauxite, &c.	331,192	Nov. 24	2334	523	33	971
Bikle, Charles A., Hagerstown, Md. Clover thrasher and huller	310,246	Jan. 6	106	29	30	92
Bill, Henry W., Cuyahoga Falls, Ohio. Screw-tap	310,777	Jan. 13	793	214	30	156
Billing, Jacob M. (See Danner and Billing.)						
Billingham, Philip, Trenton, N. J. Meat-mincing machine	328,641	Oct. 20	1502	391	33	288
Billings, Andrew W., Brooklyn, N. Y. Manufacturing beer or ale	324,522	Aug. 18	1523	419	32	820
Billings, Andrew W., Brooklyn, N. Y. Apparatus for the manufacture of beer	324,523	Aug. 18	1525	421	32	821
Billings, Charles E., Hartford, Conn. Cutting-off tool	318,687	May 26	2352	628	31	980
Billings, Frank, Cleveland, Ohio. Apparatus for casting metal ingots	319,780	June 9	1068	289	31	1257
Billings, Frank, Cleveland, Ohio, and W. R. Hinesdale, Brooklyn, N. Y. Casting metal ingots	319,779	June 9	1066	289	31	1257
Billings, George H., E. W. Carter, and D. R. Smith, Cohoes, N. Y. Filtering-paper	311,223	Jan. 27	1423	387	30	282
Billings, Henry A. (See Tesseyman and Billings.)						
Billings, John D., and D. Mueller, assignors of one-half to F. Fuller, New York, N. Y. Horseshoe-machine	330,670	Nov. 17	1653	444	33	838
Billingsley, James. (See Burr, George S., assignor.)						
Billmeyer, William D. (See Coles, Erskine A., assignor.)						
Bills, Elias, Macy, Ind. Mole-trap	332,133	Dec. 8	1322	343	33	1242
Bills, Seth H., Mount Morris, N. Y. Grain-screen	327,061	Sept. 29	2494	651	32	1500
Bilz, Conrad, Linden, N. J. Water-pipe	318,586	May 26	2584	658	31	1020
Bimel, Lawrence and W. St. Mary's, Ohio. Axle box and skein	310,778	Jan. 13	793	215	30	156
Bimel, William. (See Bimel, Lawrence and W.)						
Binder, Hermann, St. Louis, Mo. Keg-washing machine	330,550	Nov. 17	1507	403	33	807
Bindseil, Hermann F., New York, N. Y. Button for fur garments	327,757	Oct. 6	330	85	33	58
Binet, Philius H., East Brighton, Vt. Belt-tightener	337,867	Dec. 22	2351	621	33	1438
Bingham, Albert D., New Haven, Conn. Watch-movement	323,777	Aug. 4	515	145	32	619
Bingham, Charles W., Jr., Boston, assignor to C. H. Kelley, Revere, and F. C. Perkins, Somerville, Mass. Filter	327,646	Oct. 6	199	49	33	36
Bingham, Samuel H., Hartford, Conn. Folding bed	321,572	July 7	226	60	32	44
Bingman, Martin, Snow Shoe, Pa. Eaves-trough holder	326,709	Sept. 22	1965	521	32	1403
Binkley, Charles A., Troy, Ohio. Weather-strip	310,364	Jan. 6	274	75	30	53
Binns, Leedham, Philadelphia, Pa. Machine for spinning and twisting	329,675	July 21	1701	451	32	326
Binns, Leedham, Philadelphia, Pa. Endless band or cord	330,087	Nov. 10	908	235	33	684
Binns, Robert, South Windham, Conn. Machine for sewing in a spiral or helical path	331,607	Dec. 1	544	133	33	1093
Bippus, Ferdinand G., assignor of one-half to J. Albecker, Evansville, Ind. Fifth-wheel	316,869	Apr. 28	2621	683	31	494

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Birch, George A., East Greenbush, N. Y. Snow-scraper	323,491	Aug. 4	137	41	32	547
Birch, James. (See Birch, Thomas, W., and J.)						
Birch, John E., assignor of one-half to D. Henderson, Winnipeg, Manitoba, Canada. Automatic cut-off for gas-burners	326,832	Sept. 22	2185	570	32	1438
Birch, Thomas, W., and J., Crawfordsville, Ind. Clay-pulverizing machine	313,572	Mar. 10	728	191	30	922
Birch, William. (See Birch, Thomas, W., and J.)						
Birkhead, Charles E., Washington, D. C. Furniture-drawer	321,078	June 30	2894	769	31	1608
Bird, Charles B., Sioux City, Iowa. Suspenders	330,194	Sept. 15	1302	337	32	1909
Bird, Charles S. (See Piper, Myron H., assignor.)						
Bird, Charles S., East Walpole, Mass. Paper box	326,937	Sept. 29	2338	612	32	1479
Bird, Charles S., East Walpole, Mass. Composition of matter for waterproofing paper	332,468	Dec. 22	2352		33	1438
Bird, Charles S., Elyria, Ohio. Rotary engine	331,224	Nov. 24	2308	648	33	982
Bird, James E., La Monte, Mo. Wagon-hoisting apparatus	313,803	Mar. 10	1041	267	30	979
Bird, John T., and R. Simons, Rochelle, Ill. Harrow	324,292	Aug. 11	1908	339	32	755
Bird, Peter E., Jenkintown, Pa., assignor of one-half to M. L. Kohler. Railway-switch	321,079	June 30	2896	770	31	1608
Birdsall, Edgar M. (See Stringer, George, assignor.)						
Birdsall, Edgar M., Auburn, N. Y. Traction engine	320,752	June 23	2456	651	31	1521
Birdsall, Edgar M., and G. Stringer, Auburn, N. Y.; said Stringer assignor to said Birdsall. Feed mechanism for saw-mill carriages	319,181	June 2	298	79	31	1103
Birdsall, Samuel, Susquehanna, Pa. Hitching-strap	310,643	Jan. 13	617	170	30	123
Birdsall, Samuel, Susquehanna, Pa. Hitching-strap	332,779	Dec. 22	2529	588	33	1416
Birdsall, J. Ben. (See Wetmore and Bratt, assignors.)						
Birdsall, Joseph B., L. H. Bratt, and W. F. Wetmore, South Bend, Ind. Steam-boiler	326,833	Sept. 22	2187	570	32	1438
Birge, George K., Buffalo, N. Y. Apparatus for stocking wall-paper, &c	318,944	June 2	9	2, 3	31	1050
Birge, Isidore, assignor to Transit Apparatus Company, (limited,) Philadelphia, Pa. Store-service apparatus	325,382	Sept. 1	218	56	32	1056
Birge, Isidore, assignor to Transit Apparatus Company, (limited,) Philadelphia, Pa. Store-service apparatus	325,383	Sept. 1	220	56	32	1056
Birge, Isidore, assignor to Transit Apparatus Company, (limited,) Philadelphia, Pa. Store-service apparatus	325,384	Sept. 1	221	56	32	1056
Birge, Isidore, assignor to Transit Apparatus Company, (limited,) Philadelphia, Pa. Store-service apparatus	325,385	Sept. 1	224	57	32	1057
Birge, Walter F., Buffalo, N. Y. Stirrup	325,386	Sept. 8	908	228	32	1199
Birge, Walter F., Buffalo, N. Y. Manufacture of starch	320,701	Nov. 3	369	93	33	573
Birge, William H., Franklin, Pa. Perfumer	331,937	Dec. 8	1029	267	33	1192
Birge, William H., Franklin, assignor to Oil Well Supply Company, (limited,) Oil City, Pa. Sand-pump	311,945	Feb. 10	651	178	30	477
Birkenhead, John, Mansfield, Mass. Mechanism for supporting and guiding drills while being ground	327,758	Oct. 6	330	85	33	58
Birkett, B. Frank, Burlington, N. J. Combined cultivator and land-marker	331,028	Nov. 24	2119	574	33	932
Birkimer, John A., assignor to himself, A. and W. Bringardner, New Lexington, Ohio. Vehicle-spring	322,574	July 21	1580	416	32	303
Birley, Frank P., Toronto, Ontario, Canada. Paper box	321,181	June 30	3021	600	31	1630
Birch, William, Blairstown, Iowa. Washing-machine	323,280	July 28	2519	669	32	483
Birtwistle, Richard. (See Stott and Birtwistle.)						
Bisailon, Belian H., Lockport, N. Y. Ointment	320,836	June 23	2555		31	1540
Bisbee, Albert, and J. T. Bacon, Plainville, Mass. Machine for roll-finishing seamless balls	322,343	July 14	1253	327	32	236
Bisbee, Wisner B., assignor to F. Taylor, Lowell, Mass. Wire basket	318,081	May 19	1548	415	31	894
Bischoff, Max, New York, N. Y. Separable garment	326,834	Sept. 22	2188	571	32	1438
Bishop, Augustus A., Washington, D. C. Envelope	311,946	Feb. 10	652	179	30	477
Bishop, Calvin W., Verona, N. Y. Device for attaching milk-cans to wagons	320,431	Nov. 3	7	2	33	506
Bishop, Carlisle J. (See Ketcham, J. Wesley, assignor.)						
Bishop, Daniel H. (See Warden, William R., assignor.)						
Bishop, Edward W. (See Long, Nathan H., assignor.)						
Bishop, Henry L. (See Balch and Burr, assignors.)						
Bishop, John W., New Haven, Conn. Fire-extinguisher	332,041	Dec. 8	1179	309	33	1218
Bishop, Robert H., Islington, and W. Down, Vicars Road, county of Middlesex, England. Key-board attachment for musical instruments	311,947	Feb. 10	654	179	30	477
Bishop, Samuel, Bloomington, Ill. Invalid-bed	331,608	Dec. 1	545	180	33	1093
Bissell Carpet Sweeper Company. (See Drew, Walter J., assignor.)						
Bissell Carpet Sweeper Company. (See Judd, Charles B., assignor.)						
Bissell, Frank H., Orwell, assignor of one-half to M. Nell, Dayton, Ohio. Wire fence	314,785	Mar. 31	2381	630	30	1270
Bissell, James U., Rochester, Ohio. Vehicle-wheel	310,779	Jan. 13	794	215	30	156
Bissell, John H. (See Cope, Henry P., assignor.)						
Bissell, Melville R., Grand Rapids, Mich. Carpet-sweeper	339,257	Oct. 27	2364	611	33	452
Bissell, Thelma M., South Bend, Ind. Plow	312,797	Feb. 24	1824	501	30	711
Bissell, Titus L., Charleston, S. C. Automatic time stock-feeder	317,708	May 12	1043	271	31	721
Bissell, Titus L., Charleston, S. C. Alarm-clock	321,415	July 7	3	1	32	3
Bissell, Titus L., Charleston, S. C. Time stock-feeder	327,063	Sept. 29	2495	631	32	1500
Bissett, Edwin H. (See Evans and Bissett.)						
Bitner, David P. (See Buch, Milton F., assignor.)						
Bittenbender, Jonas, Mifflinville, Pa. Apple-parer	325,903	Sept. 8	908	229	32	1199
Bitter, William J., Toledo, Ohio. Check-rein swivel for bridles	318,443	May 26	2026	546	31	922
Bittnar, Adam, Berry, Ill. Pot-hook or trammel	326,835	Sept. 22	2189	571	32	1438
Biven, Frederick, San Francisco, assignor of two-thirds to C. C. Moore and W. C. Seaman, Stockton, Cal. Thermostat	323,556	Aug. 4	230	67	32	564
Bixby, Arthur, assignor of three-fourths to W. E. Jackson and C. Hartshorne, Philadelphia, Pa. Car-brake	327,430	Sept. 29	2984	770	32	1586
Bixler, David, et al. (See Hobart, John H., assignor.)						
Black, Abraham B., et al. (See Jerrold, John E., assignor.)						
Black & Clawson Company. (See Black, Frank X., assignor.)						
Black & Clawson Company. (See Black and Kaffenberger, assignors.)						
Black, Francis B., Mount Carmel, Ind. Washing-machine	314,786	Mar. 31	2383	630	30	1271
Black, Francis B., Mount Carmel, Ind. Washing-machine	323,273	July 28	2339	675	32	486
Black, Frank X., assignor to Black & Clawson Company, Hamilton, Ohio. Paper-pulp screen	316,938	May 5	11	3	31	525
Black, Frank X., and G. Kaffenberger, assignors to Black & Clawson Company, Hamilton, Ohio. Shifting eccentric	321,001	June 30	2789	741	31	1388
Black, George S., assignor to E. C. Atkins & Co., Indianapolis, Ind. Saw-jointing device	315,928	Apr. 7	354	86	31	64
Black, George S., assignor to E. C. Atkins & Co., Indianapolis, Ind. Saw-guide	315,229	Apr. 7	354	87	31	64
Black, George S., assignor to E. C. Atkins & Co., Indianapolis, Ind. Saw-tooth swage	323,628	Aug. 4	326	93	32	583

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Black & Germer. (See Marquardt, J. George, assignor.)						
Black, Henry A. (See Jordan and Curry, assignors.)						
Black, James E. (See Sustaire, John T., assignor.)						
Black, James W., Berwick, Nova Scotia, Canada. Ice-cream soda	332,134	Dec. 8	1323		33	1242
Black, Joseph H., Columbia, Pa. Car wheel and axle	332,575	July 21	1520	416	32	302
Black, Joseph P., assignor to Hapgood Plow Company, Alton, Ill. Cultivator	313,847	Mar. 17	1109	288	30	1000
Black, Joseph P., assignor to Hapgood Plow Company, Alton, Ill. Sulky-plow	329,432	Nov. 3	8	2	33	506
Black, Joseph P., assignor to Hapgood Plow Company, Alton, Ill. Listing-cultivator	329,530	Nov. 3	148	37	33	533
Black, Joseph P., assignor to Hapgood Plow Company, Alton, Ill. Planting-plow	331,938	Dec. 8	1030	268	33	1192
Black, Julius, Toledo, Ohio. Garment-hanging stand	322,036	July 14	861	224	32	164
Black, Richard W. (See Lancaster, Bradford F., assignor.)						
Black, William, and T. Larkin, South Shields, county of Durham, England. Roasting-furnace	322,720	July 21	1840	488	32	351
Black, William T., Canton, Ohio. Aconoustic telephone	324,356	Aug. 18	1300	353	32	780
Black, William T., Graham, Mo. Pastry-board	331,029	Nov. 24	2121	574	33	932
Black, William V., et al. (See Kidder, George R., assignor.)						
Blackburn, Claude W., Chicago, Ill. Piano-stool	325,044	Aug. 25	2238	614	32	962
Blackburn, David, Montreal, Quebec, Canada. Waterproofing compound	326,514	Oct. 6	6		33	3
Blackburn, George W., and W. F. Cordray; said Cordray assignor to H. Cordray, Columbus, Ohio. Furnace-grate	325,651	Sept. 8	580	147	32	1130
Blackburn, Jacob E. (See Walter and Blackburn.)						
Blackhall, Edward W., Toronto, Ontario, Canada. Ruling-machine	317,078	May 5	195	49	31	559
Blackman, Eli J., Bridgeport, assignor to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Drawer-pull	312,798	Feb. 24	1825	501	30	711
Blackman, George E., Dunkirk, assignor of two-thirds to Bull & Haynes and E. N. Bowen, Buffalo, N. Y. Bicycle-wheel	311,803	Feb. 3	441	119	30	431
Blackman, Charles S., Montreal, Quebec, Canada. Holder for water-closet paper	316,228	Apr. 21	1722	452	31	326
Blackman, Henry. (See Parker and Blackman.)						
Blackmer, Napoleon B., Portage, Wis. Vacuum-creamers	325,482	Sept. 1	357	87	32	1083
Blackmore, John E., assignor of one-half to O. M. Bruce, Walnut, Iowa. Wire-stretcher	313,165	Mar. 3	177	43	30	809
Blackmore, John E., assignor of one-half to O. M. Bruce, Walnut, Iowa. Fence-wire carrier and stretcher	333,277	Dec. 29	2928	766	33	1548
Blackstone, Daniel. (See Blackstone, William and D.)						
Blackstone, William and D., Shelbyville, Ill. Hay rake and loader	317,614	May 12	927	238	31	699
Blackwell, Henry T., What Cheer, Iowa. Condenser for steam-pumps	311,638	Feb. 3	239	67	30	394
Blades, Leonard J., Chicago, Ill. Ticket-case	321,783	July 7	507	135	32	95
Blaedus, Emile, New York, N. Y. Adjustable plaque-stand	326,387	Sept. 15	1563	406	32	1318
Blakie, Alexander J., Rochester, N. Y. Machinery for opening and closing automatically safety-covers for elevators	312,699	Feb. 24	1692	465 466	30	667
Blain, Frank J., Cincinnati, Ohio, and E. Rardon, Newport, Ky. Preventing tarnishing in silver-ware	312,954	Feb. 24	2022		30	746
Blaine Centre Draft Plow Company. (See Blaine, George E., assignor.)						
Blaine, George E., Chattanooga, Tenn. Dumping-car	315,892	Apr. 14	1372	331	31	237
Blaine, George E., Chattanooga, Tenn., assignor to Blaine Centre Draft Plow Company. Plow	311,564	Feb. 3	144	41	30	375
Blaine, Sarah C., Chattanooga, Tenn. Bolster-spring	315,382	Apr. 7	542	140	31	98
Blaine, George W., assignor of two-thirds to L. H. Fongeres and J. M. Haas, Wabash, Ind. Thill-coupling	311,464	Feb. 3	6	2	30	350
Blair, George W., and W. Buttler, Pittsburg, Pa. Apparatus for cooling glass-molds	325,724	Sept. 8	187	172	32	1148
Blair, James H. (See Buttler, William, assignor.)						
Blair, John, New York, N. Y. Fountain-pen	328,454	Oct. 20	1242	322	33	242
Blair, John J., Cincinnati, Ohio. Letter-box	331,760	Dec. 8	777	196	33	1145
Blair, John J., Cincinnati, Ohio. Revolving-cylinder engine	331,930	Dec. 8	1031	268	33	1192
Blair, Lewis F., and J. W. Roche, Oswego, N. Y. Felt roofing	322,153	July 14	1020	265	32	194
Blair Manufacturing Company. (See Lond, Waldo A., assignor.)						
Blaisdell, Joseph W., Brooklyn, N. Y. Wood-bundling machine	325,463	Sept. 1	358	87	32	1084
Blake, C. H., et al. (See Blake, Francis M., assignor.)						
Blake, D. D., et al. (See Blake, Francis M., assignor.)						
Blake, Edward A., Chicago, Ill. Black-leading machine	316,229	Apr. 21	1723	452	31	326
Blake, Edward A., Chicago, Ill. Roll-guard for roughing-machines	324,806	Aug. 25	1920	528	32	962
Blake, Edward A., Chicago, Ill. Electrotype-plate-shaving attachment for roughing-machines	325,781	Sept. 8	763	191	32	1162
Blake, Edward A., Chicago, Ill. Machine for trimming stereotype-plates	327,856	Oct. 6	455	118	33	80
Blake, Edward A., Chicago, Ill. Machine for shaving stereotype-plates	327,857	Oct. 6	456	118	33	80
Blake, Edward W., Waterbury, Conn. Bedstead	317,709	May 12	1044	271	31	721
Blake, Francis, Weston, Mass. Telephone	314,312	Mar. 24	1724	459	30	1194
Blake, Francis M., Worcester, Mass. Adjustable metallic packing	318,082	May 19	1540	415	31	624
Blake, Francis M., Worcester, Mass. Wire-drawing die	326,097	Sept. 15	1166	298	32	1245
Blake, Francis M., assignor of one-half to C. H. and D. D. Blake, Worcester, Mass. Friction-clutch	312,074	Feb. 10	830	226	30	511
Blake, George H., Portland, Me. Ore-separator	322,696	Dec. 22	2122	560	33	1395
Blake, George W., New York, N. Y. Hanger for pipe	311,282	Jan. 27	1513	413	30	229
Blake, George W., New York, N. Y. Lag-screw for pipe-hangers	317,613	May 12	926	237	31	699
Blake & Johnson. (See King and Lester, assignors.)						
Blake, Lowell E., El Paso, Tex. Sinking hydraulic piles	325,484	Sept. 1	360	87	32	1084
Blake, Luther. (See Simonds and Blake.)						
Blake Manufacturing Company, George F. (See Broadbent, Charles L., assignor.)						
Blake Manufacturing Company, George F. (See Coryell and Wheeler, assignors.)						
Blake, Robert A. (See Alcorn and Blake.)						
Blake, Samuel D., Dallas, Tex. Pantaloon and overalls	318,945	June 2	11	3	31	1050
Blake, Samuel D., Dallas, Tex. Drawers and pantaloon	321,416	July 7	4	1	32	3
Blake, Thomas. (See Jones and Blake.)						
Blakeley, Francis A. (See Hawley, William G., assignor.)						
Blakeley, Caleb J., assignor of two-thirds to D. E. Fifield and L. N. Williamson, Janesville, Wis. Burnishing-machine for boots or shoes	323,901	Aug. 11	676	189	32	657
Blakeley, Edward A. (See Brigg, William W., assignor.)						
Blakemore, James B., and W. A. Roberts, Ralston Station, Tenn. Washing-machine	314,163	Mar. 17	1526	400	30	1077
Blaker, Achilles, assignor of one-half to A. Wheeler, Shedd, Oreg. Treating pomace for keeping the extract clear	319,549	June 9	766		31	1202
Blakeslee, George W., Perry, Iowa. Self-binding harvester	324,524	Aug. 18	1527	421	32	821
Blakeslee, George W., New York, N. Y. Watch-case spring	326,710	Sept. 22	1985	521	32	1403
Blakeslee, Harvey D., et al. (See Latta, Emmitt G., assignor.)						
Blakeslee, Jared, Story City, Iowa. Wagon-seat lock	328,178	Oct. 13	875	227	33	166

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Blakeslee, John R., Cleveland, Ohio. Bolt-blank machine.....	332,889	Dec. 22	2352	{ 621 622 }	33	1438
Blakesley, Gilbert H. (See Newman and Blakesley.)						
Blakesley, Gilbert H., Bristol, assignor to Corbin Cabinet Lock Company, New Britain, Conn. Trunk-fastening.....	319,550	June 9	787	208	31	1902
Blakesley, Gilbert H., Bristol, assignor to Corbin Cabinet Lock Company, New Britain, Conn. Trunk catch or fastener.....	325,234	Sept. 1	5	2	32	1016
Blakey, Mildred, Allegheny, Pa. Thread-protector for wrought-iron pipe.....	311,171	Jan. 27	1336	368	30	267
Blakey, Mildred, Allegheny City, Pa. Machine for making tapered threaded sockets.....	312,700	Feb. 24	1694	466	30	687
Blamires, Thomas H., Huddersfield, county of York, England. Take-up and let-off mechanism for looms.....	318,857	May 26	2585	688	31	1090
Blancard, Christian, New York, N. Y. Diamond-setting.....	325,485	Sept. 1	361	88	32	1064
Blanchard, Alanson, Arlington, Mass. Clothes-drier.....	330,836	Sept. 22	2190	571	32	1438
Blanchard, Albert M., Ellington, N. Y. Refrigerating-vessel for cold storage.....	332,584	Dec. 15	1954	511	33	1358
Blanchard, Charles, Cincinnati, Ohio. Snap-hook.....	321,080	June 30	2697	770	31	1608
Blanchard, Forrest S. (See Smith, Orson W., assignor.)						
Blanchard, George, New York, N. Y. Compass-needle.....	332,780	Dec. 22	2231	588	33	1417
Blanchard, George T. (See Gordon and Blanchard.)						
Blanchard, Thomas A., Appling, Ga. Plow.....	312,075	Feb. 10	831	{ 226 227 }	30	511
Blanchard, Virgil W., New York, N. Y. Type-writing machine.....	321,479	July 7	97	26	32	19
Blandow, William. (See Cave, Holm, and Blandow.)						
Blankley, James A., and C. H. Tallman, Bellairs, Ohio; said Blankley assignor to said Tallman. Lantern.....	314,727	Mar. 31	2384	{ 630 631 }	30	1271
Blascoe, David H., assignor of one-half to G. Sylvester, Milwaukee, Wis. Street carriage-block.....	321,417	July 7	5	2	32	3
Blatchly, Ambrose, and A. J. Hatch, San Francisco, Cal. Fruit-drier.....	325,782	Sept. 8	764	191	32	1163
Blattmann, Charles, New York, N. Y. Electric lock.....	320,617	June 23	2293	805	31	1488
Blattner, Joseph, Highland, Ill. Feed-trough.....	310,554	Jan. 13	508	140	30	104
Blavier, Fredrick, assignor of two-thirds to C. H. Town, Royalton, and R. Blazier, Muckwa, Wis. Stump-puller.....	322,781	July 21	1841	489	32	351
Blazier, Rachel, et al. (See Blazier, Fredrick, assignor.)						
Bledsoe, Milam M., Palmyra, Mo. Grain-rack for wagons.....	316,441	Apr. 28	2033	{ 532 533 }	31	386
Blenker, Bianca, New York, N. Y. Bustle.....	318,536	May 26	2152	579	31	945
Blennman, William T. (See Young, Oliver B., assignor.)						
Bleoo, Emanuel, et al. (See Wood, Frank B., assignor.)						
Blesch, August F., Columbus, Ohio. Water-closet.....	313,281	Mar. 3	353	87	30	840
Blesch, August F., Columbus, Ohio. Float-valve for water-closets.....	317,710	May 12	1044	271	31	722
Bleser, Daniel B., Manitowoc, Wis. Interfering-pad for horses.....	326,010	Sept. 8	1048	267	32	1215
Blesing, Charles A., Philadelphia, Pa. Trap for bath-tubs, sinks, &c.....	325,486	Sept. 1	362	88	32	1064
Blesing, Charles A., Philadelphia, Pa. Basin or tub.....	330,204	Nov. 10	1050	274	33	713
Blessing, James H., Albany, N. Y. Revolvable joint for screw valve-stems.....	310,870	Jan. 20	909	247	30	183
Blessing, James H., Albany, N. Y. Apparatus for making dry-sand cores.....	315,465	Apr. 14	673	175	31	126
Blessing, James H., Albany, N. Y. Revolvable joint for screw valve-stems.....	315,464	Apr. 14	672	175	31	126
Blessing, James H., Albany, N. Y. Turning plug.....	326,195	Sept. 15	1303	337	32	1269
Blessing, James H., Albany, N. Y. Mechanism for operating valves.....	326,196	Sept. 15	1304	337	32	1269
Blessing, James H., Albany, N. Y. Device for preventing incrustation.....	330,460	Nov. 17	1396	371	33	786
Blessing, James W. (See Pfau, Julius, assignor.)						
Bleton, Camille S., and A. Maleville, Paris, France. Stand or casing for bottles.....	327,225	Sept. 29	2714	706	32	1540
Blevney, John C., Newark, N. J. Amalgamator.....	310,172	Jan. 6	14	4	30	5
Blevney, John C., Newark, N. J. Friction-coupling.....	310,173	Jan. 6	15	5	30	6
Blew, Elisha, et al. (See Teal, Henry W., assignor.)						
Blickensderfer, George C. (See Smith, Hervey, assignor.)						
Blickensderfer, George C., Erie, Pa. Excavating-machine.....	332,042	Dec. 8	1181	309	33	1218
Blicner, William, St. Louis, Mo. Vapor-burner stove.....	327,647	Oct. 6	200	49	33	36
Blider, William C., Decatur, Ill. Hog-snout cutter.....	323,261	July 28	2520	669	32	463
Blinzier, Fredrick, Blakeslee, Ohio. Hat-holder.....	323,262	July 28	2521	670	32	463
Bliss, Anthony H., North Attleborough, Mass. Burnishing-machine.....	332,476	Dec. 15	1788	{ 469 470 }	33	1330
Bliss, E. W. (See Jordan, Edmund, assignor.)						
Bliss, E. W. (See Leavitt, Frank M., assignor.)						
Bliss, Eliphalet W. (See Jordan, Edmund, assignor.)						
Bliss, Eliphalet W. (See Leavitt, Frank M., assignor.)						
Bliss, George H. (See Bliss, John and G. H.)						
Bliss, George H. (See Bliss, John and G. H.) (Reissue.)						
Bliss, Irving W., Providence, R. I. Bolt-heading machine.....	324,214	Aug. 11	1109	{ 299 300 301 }	32	736
Bliss, John and G. H., Brooklyn, N. Y. Registering ship's log. (Reissue).....	10,625	July 21	1997	528	32	379
Bliss, John and G. H., Brooklyn, N. Y. Rotator for ships' logs.....	331,369	Dec. 1	160	41	33	1027
Bliss Manufacturing Company, R. (See Tingley, George S., assignor.)						
Bliss Manufacturing Company, R. (See Wood, John B., assignor.)						
Bliss, William H., Newrich, Conn. Revolving fire-arm.....	313,048	Mar. 3	13	4	30	781
Bliss, William L., and G. F. Kopp, South Egremont, Mass. Barn-door fastening.....	324,525	Aug. 18	1528	482	32	621
Bliven, Charles, Norfolk, Va. Circular-traveling device.....	325,386	Sept. 1	227	57	32	1037
Bloch, Oscar, New York, N. Y. Temporary binder.....	327,003	Sept. 29	2496	651	32	1500
Blocher, John C., Lima, Ohio. Two-wheeled vehicle.....	328,124	Oct. 27	2178	{ 564 565 }	33	417
Blocher, John C., Lima, Ohio. Car-coupling.....	333,439	Dec. 29	8136	620	33	1583
Block, David. (See Landrin, Henry, assignor.)						
Block, David, New York, N. Y. Grater.....	314,645	Mar. 31	2176	577	30	1232
Block, Louis, assignor to De La Vergne Refrigerating Machine Company, New York, N. Y. Gas-compressor.....	314,992	Apr. 7	6	2	31	4
Blocki, Franz, Sheboygan, Wis. Feed-cutter.....	316,000	Apr. 21	1421	369	31	270
Blodgett, Henry L., Chicago, Ill. Sash-cord guide.....	329,005	Oct. 27	2001	521	33	387
Blodgett, Henry L., Chicago, Ill. Sash-pulley.....	329,006	Oct. 27	2003	521	33	387
Blodel, Jacob, Wyandotte, Kans. Flame.....	321,002	June 30	2790	741	31	1588
Blohm, Christian, Altona, Prussia, Germany. Device for putting on boots or shoes.....	312,321	Feb. 17	1186	394	30	584
Blomstrom, John, assignor to H. W. Price, Rockford, Ill. Glove-fastening.....	311,101	Jan. 20	1242	340	30	243
Blomstrom, John, assignor to H. W. Price, Rockford, Ill. Glove-fastening.....	316,325	Apr. 21	1850	489	31	348
Blomstrom, John, assignor to H. W. Price, Rockford, Ill. Glove.....	323,263	July 28	2522	670	32	463
Blood, Henry W., Fredonia, N. Y. Wagon-top.....	314,098	Mar. 17	1441	377	30	1062

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Blood, Lydia A., Chicago, Ill. Tpg for harness	312,799	Feb. 24	1886	501	30	711
Blood, Maurice E. (See Marsh and Blood.)						
Bloodworth, Augustus R. (See McMullen and Bloodworth.)						
Bloom, Eliza, New York, N. Y. Seal-lock	320,913	June 16	1887	451	31	1373
Bloom, Jacob E., assignor to Ligowsky Clay Pigeon Company, Cincinnati, Ohio. Ball-trap	313,804	Mar. 10	1043	267	30	979
Bloom, Silas N., assignor of one-half to J. Battle, Detroit, Mich. Mechanism for raising ladders, pipes, &c.	323,264	July 28	2523	670	32	483
Bloomfield, Ellis S., Jr., Jersey City, N. J. Call-bell	313,573	Mar. 10	729	191	30	922
Bloomfield, William, San Francisco, Cal. Lamp-filling attachment for oil-cans	311,465	Feb. 3	7	2, 3	30	350
Blossom, Edwin F., assignor of one-half to A. F. Smith, Lynn, Mass. Tool for feather-edging boot or shoe soles	316,726	Apr. 28	2423	631	31	458
Blount, Alexander C., Pensacola, Fla. Stave and cask	312,955	Feb. 24	2022	552	30	746
Blount, John A. (See Cumbach, Herbert H., assignor.)						
Blount, John G., Boston, Mass., assignor of one-half to H. M. Clark, New York, N. Y. Bicycle	323,289	July 28	2562	682	32	490
Blow, Peter E., Joplin, Mo. Grate	313,282	Mar. 3	354	88	30	841
Blue, Dennis S., Fremont, Ohio, assignor of one-half to W. F. Jobbins, New York, N. Y. Wrench	326,837	Sept. 22	2191	571	32	1439
Blue, William H., Grafton, W. Va., assignor of one-half to E. W. Johnson, Washington, D. C. Switch-stand	319,386	June 2	549	149	31	1152
Bluet, William H., Watertown, N. Y. Atomizer	327,977	Oct. 6	612	100	33	111
Blum, Charles A., assignor to himself, H. H. and F. H. Blum, Michigan City, Ind. Hose-carriage	318,444	May 26	2027	546	31	922
Blum, Fred H., et al. (See Blum, Charles A., assignor.)						
Blum, Henry H., et al. (See Blum, Charles A., assignor.)						
Blum, Christian J., Salem, N. C. Grist-mill	313,166	Mar. 3	178	43	30	809
Blum, Frederick W., and A. P. Lind, Hudson, Wis. Carrier-belt	316,727	Apr. 28	2423	631	31	458
Blumenberg, Abraham L. (See Friedmann and Blumenberg.)						
Blumenthal, Benjamin. (See Berman, Edward, assignor.)						
Blumenthal, Leon, Minneapolis, Minn. Eliminating the smell of coal-oil	312,606	Feb. 24	1572		30	666
Blumrick, Charles. (See Walker, Richard, assignor.)						
Blun, Ferdinand S. M. (See Lero, Gustave, assignor.)						
Blun & Heintz Manufacturing Company. (See Croal, William, assignor.)						
Blundstone, Benjamin. (See Moseley and Blundstone.)						
Blunt, Edward T., Blaby Hill, county of Leicester, England. Apparatus for compressing casilage	318,595	May 26	2238	589	31	958
Blunt, George G., Petersburg, Ill. Grain-drill	314,993	Apr. 7	9	3	31	4
Blust, Charles, assignor to R. Wolf & Co., New York, N. Y. Bag and pocket-book fastener	320,427	June 16	2034	534	31	1432
Bly, J. Frank, and C. R. Cipperly, Mayville, N. Y. Screw-top for oil and other cans	316,001	Apr. 21	1422	370	31	271
Blyth, Frederick D. (See Southby, A. Gapper, assignor.)						
Blyth, Henry G., London, England. Apparatus for the manufacture of white lead	322,782	July 21	1842	489	32	352
Blythe, George, Chillicothe, Mo. Tobacco-stick holder	322,244	July 14	1128	294	32	215
Blythe, John B., Bordeaux, France. Treating railway-sleepers	313,912	Mar. 17	1198	312	30	1016
Blythe, John B., Bordeaux, France. Apparatus for treating, seasoning, and preserving timber	313,913	May 17	1202	313	30	1017
Boak, James K., et al. (See Ginter, William P., assignor.)						
Boalt, Francis B., Binghamton, N. Y. Hanging doors	315,230	Apr. 7	355	87	31	64
Boalt, Francis B., Binghamton, N. Y. Device for hanging doors	322,037	July 14	982	224	32	185
Boardman, Frederick, Mansfield, Mass. Pivoting-chuck	330,551	Nov. 17	1508	404	33	807
Boardman, Lorenzo M., assignor of one-half to S. Ladd, Minneapolis, Minn. Amalgamator and concentrator for stamp-mills	330,817	Nov. 17	1846	497	33	873
Boardman, William Y. A., Hyde Park, Mass. Machine for making drills	317,287	May 5	489	123	31	613
Boatman, Isaac W., assignor of one-half to Yingling & Brother, Seven Mile, Ohio. Soil-dressing machine	319,949	June 16	1345	354	31	1309
Boatner, Willie, Woodville, Miss. Adjustable harrow	321,676	July 7	356	94	32	67
Board, James L. (See Clapp, James H., assignor.)						
Bobrick, Gabriel A., Boston, assignor, by mesne assignments, to himself and F. N. Wales, Newton, Mass. Automatic specific-gravity apparatus	324,806	Aug. 25	1922	529	32	902
Bock, Anton II., Meissen, Saxony, Germany. Velocipede	331,113	Nov. 24	2237	608	33	954
Bock, Henry F., Lansing, Ill. Frying-pan	310,365	Jan. 6	275	76	30	53
Bock, Henry F., Lansing, Ill. Shaft-tug	310,366	Jan. 6	276	76	30	53
Bock, Henry F., Lansing, Ill. Shaft-tug	310,367	Jan. 6	277	76	30	53
Bock, Henry F., Lansing, Ill. Shaft-loop	325,045	Aug. 25	2239	614	32	962
Bock, Henry F., Lansing, Ill. Harness-buckle	327,130	Sept. 29	2593	675	32	1517
Bock, James H., assignor of one-half to M. Brown, New Castle, Ind. Press	313,914	Mar. 17	1205	314	30	1017
Boda, A. Zellar, and L. Klopech, New York, N. Y., assignors to said Klopech. Stereotype-plate holder	323,557	Aug. 4	231	68	32	564
Bode, Frederick, et al. (See Solano, Renaldo, assignor.)						
Boden, Edmund P., et al. (See Anderson, Archie, assignor.)						
Bodenhamer, Levi I., Kernersville, N. C. Compound for preserving eggs	326,895	Sept. 22	2280		32	1454
Bodenstein, Henry. (See Bodenstein, John G. and H.)						
Bodenstein, John G., Staatsburg, N. Y. Ice-book	311,639	Feb. 3	240	67	30	394
Bodenstein, John G. and H., Staatsburg, N. Y. Ice-plow	324,477	Dec. 15	1789	470	33	1330
Bodge, Joseph G., Gorham, assignor to Indurated Fibre Company, Portland, Me. Machine for forming hollow ware from paper-pulp	319,189	June 2	300	80	31	1103
Bodine, J. Nixon, Bridgeton, N. J. Dirt-cart	329,702	Nov. 3	370	94	33	575
Bodine, J. Nixon, and O. Smith, Bridgeton, N. J.; said Smith assignor to said Bodine. Dirt-cart	329,703	Nov. 3	373	95	33	576
Bodman, Elam, Gibbon, Nebr. Wagon-step	326,018	Sept. 15	1167	298	32	1245
Bodwell, John D., San Francisco, Cal. Apparatus for the combustion of liquid fuel	320,532	June 23	2178	574	31	1466
Bodwell, John D., assignor to California Perfection Fuel Manufacturing Company, San Francisco, Cal. Device for the combustion of liquid fuel	320,533	June 23	2180	575	31	1467
Bodwell, Joseph R. (See Barnham, Arthur M., assignor.)						
Boecker, Adam, New York, N. Y. Sewing-machine	322,245	July 14	1129	294	32	215
Boehmke, Henry, and G. Bohlen, Cleveland, Ohio. Ground-auger anchor	315,583	Apr. 14	863	227	31	160
Boehncke, Max A. T., and H. Rohwer, Omaha, Nebr. Continuous brick-kiln	323,492	Aug. 4	138	41, 42	32	547
Boeklen, Reinhold. (See Potter and Boeklen.)						
Boeklen, Reinhold, Brooklyn, N. Y. Gas-pressure regulator	317,918	May 12	1324	355	31	775
Boeklen, Reinhold, and J. D. Averell, Brooklyn, N. Y. Apparatus for generating illuminating-gas	324,809	Aug. 25	1925	529	32	903

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Boelling, Lewis, receiver, <i>et al.</i> (See Loeser, Lazarna, assignor.)						
Boerner, Wunibald R., Chicago, Ill. Wire-work	312,701	Feb. 24	1695	{ 466 467 }	30	667
Boerner, Wunibald R., Chicago, Ill. Attaching cuttle-bone to bird-cages	325,313	Sept. 1	112	32	32	1036
Boettcher, John G. L., Brooklyn, N. Y. Combined water-gage and faucet	323,778	Aug. 4	516	145	32	619
Boettcher, Theodor, Mendota, Ill. Two-wheeled vehicle	316,002	Apr. 21	1423	370	31	271
Boese, William, Newark, N. J. Harness-trimming	332,634	Dec. 15	2016	529	33	1370
Boeye, Marinus J. S., Zwolle, Overijssel, Netherlands. Heating-stove	324,074	Aug. 11	903	249	32	698
Bogan, James F., East Boston, assignor to G. E. Marvin, Boston, R. F. Pratt, Everett, and W. E. Carleton, Charlestown, Mass. Device for reducing the diameter of metal rods or wire	313,283	Mar. 3	356	88	30	841
Bogan, James F., assignor to Flinn & Co., Boston, Mass. Game-counter for cribbage	332,135	Dec. 8	1324	343	33	1242
Bogardus, Robert, New York, N. Y. Fresh-meat-shipping can, box, or package	317,615	May 12	928	938	31	699
Bogardus, Robert, New York, N. Y. Refrigerator car and chamber	319,443	June 9	639	173	31	1177
Bogardus, Robert, Albany, N. Y., and W. A. H. Bogardus, 2d, Chicago, Ill. Refrigerator building and chamber	319,444	June 9	641	174	31	1177
Bogardus, Washington A. H., 2d. (See Bogardus, Robert and W. A. H., 2d.)						
Bogart, Garrett. (See Evans, James D., assignor.)						
Bogert, John L., Flushing, N. Y. Rotary valve for steam-engines	310,978	Jan. 20	1065	229	30	210
Bogert, John L., Flushing, N. Y. Twin-cylinder engine	310,979	Jan. 20	1067	{ 229 230 }	30	211
Bogert, John L., Flushing, N. Y. Steam-engine	325,487	Sept. 1	363	88	32	1085
Bogert, John L., Flushing, N. Y. Valve for engines	325,488	Sept. 1	364	88, 89	32	1085
Bogert, John L., Flushing, N. Y. Crank for engines	325,489	Sept. 1	366	89	32	1085
Boggs, John M., <i>et al.</i> (See Williams, Thomas D., assignor.)						
Boggs, Joseph O., Harrisburg, Pa. Torpedo-placer	317,079	May 5	198	50	31	559
Bogle, William H., Covington, Ohio. Fence	313,848	Mar. 17	1110	988	30	1000
Bogle, Walter S., Chicago, Ill. Locking device for coal-handling apparatus	323,478	Dec. 29	2928	706	33	1548
Bolaker, Andreas W., Boston, Mass. Device for elevating and suspending bed-clothing	323,265	July 28	2524	670	32	483
Bolannan, Wilson, Brooklyn, N. Y. Padlock	318,537	May 26	2133	579	31	945
Bolannon, Quin E., Lincoln, Nebr. Corn-sheller	310,728	Apr. 28	2424	631	31	458
Bolinger, Alfred P., St. Louis, Mo. Curtain-stretcher	328,278	Oct. 13	996	259	33	188
Böhlen, Gerhard. (See Boehmke and Böhlen.)						
Böhm, Sören C. K., South Natick, Mass. Shoe	324,810	Aug. 25	1927	530	32	903
Böhme, Adolf T., Dresden, Saxony, Germany. Making coloring-matter	329,125	Oct. 27	2180		33	417
Bohn, Ferdinand. (See Braun and Bohn.)						
Bohn, Frederick W., Wabasha, Minn. Traction-engine	310,980	Jan. 20	1068	291	30	211
Bohner, George, <i>et al.</i> (See Dawson, Artemas L., assignor.)						
Bohner, George and J. E., Chicago, Ill. Extension-lamp	311,224	Jan. 27	1423	{ 388 389 }	30	282
Bohner, Joseph E. (See Bohner, George and J. E.)						
Boies, Thaddeus W., Beloit, Kans. Stock-watering trough	330,088	Nov. 10	909	235	33	684
Bollean, Etienne, St. Louis, Mo. Furnace	320,997	Nov. 10	780	200	33	657
Bolsier, Hermann R., New York, N. Y. Brush-holder for dynamo-electric machines	310,780	Jan. 13	795	215	30	156
Bolsier, Hermann R., New York, N. Y. Regulator for electric-arc lamps	310,781	Jan. 13	796	{ 215 216 }	30	156
Bolsier, Hermann R., New York, N. Y. Dynamo-electric machine	310,782	Jan. 13	797	216	30	157
Bolsier, Hermann R., New York, N. Y. Cut-out for electric-arc lamps	310,783	Jan. 13	799	216	30	157
Bolsier, Hermann R., New York, N. Y. Apparatus for electroplating	331,600	Dec. 1	546	133	33	1093
Bolssonneant, André, Lawrence, Mass. Loom-shuttle	322,892	July 28	2010	530	32	388
Bolvin, Guillaume, Montreal, Quebec, Canada. Manufacture of boots or shoes	321,182	June 30	3022	800	31	1630
Boker & Co., Herman. (See Röder, Carl A., assignor.)						
Boland, Dennis A., Allegheny, Pa. Reduction of friction between the rails and wheels on cars on street-railways	317,492	May 12	770	196	31	671
Boland, James, Norwich, Conn. Revolving fire-arm	317,965	May 19	1399	{ 375 376 }	31	796
Boland, William A., <i>et al.</i> (See Woodward, Erastus, assignor.)						
Bold, Fred, assignor of one-half to W. M. Stanton, St. Louis, Mo. Lubricator	325,904	Sept. 8	910	229	32	1190
Bole, John, Pittsburg, Pa. Tubing and packing Artesian and oil wells	313,915	Mar. 17	1207	315	30	1017
Bole, William A. (See Bagaley, Ralph, assignor.)						
Bole, William A. (See Westinghouse and Bole.)						
Bole, William A., Pittsburg, Pa. Securing pulleys or crank-disks to shafts	314,788	Mar. 31	2386	631	30	1271
Bole, William A., Pittsburg, Pa. Combined pulley or crank disk and shaft	314,789	Mar. 31	2387	631	30	1271
Bole, William A., assignor of one-half to R. Bagaley, Pittsburg, Pa. Tube-expander	310,870	June 9	1240	327	31	1292
Bole, William A., assignor of one-half to R. Bagaley, Pittsburg, Pa. Coupling pipes	331,940	Dec. 8	1033	268	33	1192
Bole, William A., assignor of one-half to R. Bagaley, Pittsburg, Pa. Pipe-coupling	332,184	Dec. 8	1367	359	33	1253
Bolette, Jean S., Pepinster, Belgium. Fleece-kniving attachment for carding-machines	312,424	Feb. 17	1319	364	30	610
Boligiano, Gilbert C., Baltimore, Md. Sash-balance	325,152	Aug. 25	2372	653	32	967
Bollinger, William H., <i>et al.</i> (See Smith, John A., assignor.)						
Bolles, John H. (See Williams, John N. S., assignor.)						
Bolles, John H., assignor of one-third to J. N. S. Williams, San Francisco, Cal. Rotary cutter for dredgers	331,861	Dec. 8	914	236	33	1169
Bollinger, Alexander M., Kelly's Station, Pa. Work-table for shoe-makers	310,784	Jan. 13	800	217	30	157
Bollinger, Alexander M., Kelly's Station, Pa. Drill and sucker rod joint	317,493	May 12	771	196	31	671
Bollinger, Harry S. (See Cooper and Bollinger.)						
Bollinger, Harry S., Chicago, Ill., and C. C. Schwaner, Winterset, Iowa. Trace-supporter	331,761	Dec. 8	778	197	33	1145
Bollinger, Joseph, Bracken, Ind. Combined corn-planter and plow	313,296	Mar. 3	373	92	30	845
Bollmann, Louis, Vienna, Austria-Hungary. Dynamo-electric machine	323,108	July 28	2315	{ 612 613 }	32	445
Bolman, William G., <i>et al.</i> (See Cassidy, Jacob H., assignor.)						
Bolte, Frank H., assignor to H. J. Delany and R. C. Giljohan, Milwaukee, Wis. Grease-trap	325,726	Sept. 8	690	172	32	1148
Bolte, Frank H., and H. G. Thede, assignors of one-third to J. W. Thede, Milwaukee, Wis. Roller-mill	330,288	Nov. 10	1156	307	33	734
Bolthoff, Henry, assignor of one-half to C. F. Hendrie, Denver, Colo. Stamp-mill	312,956	Feb. 24	2025	{ 532 533 }	30	746
Bolthoff, Henry, assignor of one-half to C. F. Hendrie, Denver, Colo. Reducing and discharging ores, &c	312,957	Feb. 24	2027	533	30	747
Bolton, Francis J., Westminster, county of Middlesex, England. Floating apparatus for producing illuminated fountains	312,958	Feb. 24	2029	534	30	747
Bolton, George W. (See Tillmeyer and Bolton.)						
Bolton, George W., assignor of one-half to J. B. Corliss and F. D. Andrus, Detroit, Mich. Car-coupling	321,677	July 7	357	94	32	67
Bolton, James M., Mapleton, Iowa. Corn-planter	326,388	Sept. 15	1583	406	32	1318

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Belton, Reginald P., Broxbourne, county of Herts, England. Air-compressing engine.....	314,218	Mar. 24	1565	{ 421 422 }	30	1099
Bolus, Lewis, and P. Ellsperman, Wooster, Ohio. Ventilating measure-funnel.....	313,049	Mar. 3	15	4	30	791
Bolze, Hans, Brunswick, Germany. Machine for producing cylindrical non-conductors of heat.....	325,490	Sept. 1	367	89, 90	32	1065
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Lead and crayon holder.....	321,784	July 7	510	135	32	95
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Lead and crayon holder.....	321,785	July 7	512	135	32	95
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Pencil and crayon holder.....	321,786	July 7	513	177	32	95
Bomar, Thomas E., McKinney, Tex. Ink-fountain for printing-machines.....	326,938	Sept. 29	2339	612	32	1479
Boms, Joseph C. (See Coop and Boms.)						
Bond, Charles T., Webster, Ind. Gate-latch.....	329,300	Oct. 27	2368	613	33	453
Bond, Charles W., Toledo, Ohio. Car-coupling.....	315,594	Apr. 14	863	227	31	160
Bond, George C., and J. Sadler, Nottingham, England. Convertible carriage and cradle.....	323,390	Aug. 4	10	3	32	525
Bond, George M. (See Rogers and Bond.)						
Bond, H. G. (See Mathey, Henry, assignor.)						
Bond, John M. (See Delaney and Bond.)						
Bond, John T., Little Lot, Tenn. Device for loading logs on wagons.....	329,704	Nov. 3	377	96	33	577
Bond, John T., Bond's Mill, Ga. Cultivator.....	324,215	Aug. 11	1119	301	32	737
Bond, John T., Bond's Mill, Ga. Cultivator-tooth.....	332,585	Dec. 16	1955	512	33	1359
Bond, Joseph. (See Pierce and Bond.)						
Bond, Joseph, et al. (See Bryant, Orrin, assignor.)						
Bond, Nathan O., Fairfax Court-House, Va. Door-check.....	324,452	Aug. 18	1426	389	32	803
Bond, Nathan O., assignor of two-thirds to W. T. Criswell and L. C. Purman, Washington, D. C. Cooking-stove.....	315,383	Apr. 7	543	{ 140 141 }	31	99
Bonds, George W., assignor to B. Jackson, San Francisco, Cal. Friction-clutch.....	313,284	Mar. 3	357	88	30	841
Bone, Frank A., Lebanon, Ohio. Automatic fire-escape.....	312,076	Feb. 10	833	227	30	511
Bonecutter, George W., Unionville, Mo. Buggy-top.....	316,442	Apr. 28	2035	533	31	386
Bonehill, Christopher G., Birmingham, county of Warwick, England. Double-barreled gun.....	329,705	Nov. 3	378	96	33	577
Bonnell, William H., St. Louis, Mo. Ticket-punch.....	326,379	Sept. 15	1565	406	32	1319
Bonner, Andrew J., Jr., Philadelphia, Pa. Awning.....	326,279	Oct. 13	997	259	33	188
Bonner, Andrew J., Jr., and P. Vanden Bergh, Philadelphia, Pa.; said Vanden Bergh assignor to said Bonner. Awning.....	316,518	Apr. 28	2125	559	31	404
Bonney, Charles C., et al., trustees. (See Pratt, Harry P., assignor.)						
Bonsall & Company. (See Lockwood, Charles S., assignor.)						
Bonsall & Company. (See Lockwood and Hyatt, assignors.)						
Bonsall & Company. (See Lockwood, Hyatt, and Stevens, assignors.)						
Bonzano, Adolphus, Phoenixville, Pa. Cable railway.....	326,536	Sept. 15	1746	456	32	1354
Bonzano, Maximilian F., Philadelphia, Pa. Device for arresting locomotives and cars.....	315,705	Apr. 14	1006	{ 264 265 }	31	188
Bonzano, Maximilian F., Philadelphia, Pa. Safety-guard for railway-switches.....	329,783	July 21	1845	{ 489 490 }	32	352
Bonzano, Maximilian F., Philadelphia, Pa. Device for arresting locomotives and cars.....	330,671	Nov. 17	1857	446	33	839
Booker, J. T., et al. (See Harris, James G., assignor.)						
Booker, J. T., et al. (See Snell, Augustus E., assignor.)						
Booker, James T., et al. (See Malone, Alexander and B. A., assignors.)						
Bookout, Hugh B., Long's Mills, Tenn. Swinging gate.....	326,620	Sept. 22	1865	488	32	1380
Boole, George. (See Luce, Boole, and Bryon.)						
Boomer, George B., Mount Pleasant, N. Y. Box for presses.....	314,911	Mar. 31	2551	674	30	1300
Boone, Robert, Jr., Philadelphia, Pa. Visible guard for wire fences.....	321,787	July 7	515	136	32	96
Boone, William C., Brooklyn, N. Y. Hitching device.....	323,022	July 28	2195	562	32	422
Boone, William C., and W. A. Whitfield, Brooklyn, N. Y. Gas-burner.....	321,274	June 30	3137	836	31	1652
Boot and Shoe Sole Laying Company. (See Compal, Peter A., assignor.)						
Boot and Shoe Sole Laying Company. (See Eppler, Andrew, Jr., assignor.)						
Boot and Shoe Sole Laying Machine Company. (See Wood, Charles D., assignor.)						
Booth, Albert T., Meriden, Conn. Repeating call-bell.....	310,368	Jan. 6	278	76	30	54
Booth, Albert T., Meriden, Conn. Turning machine.....	329,126	Oct. 27	2181	565	33	417
Booth, Caleb H., Dubuque, Iowa. Anti-friction dredging-pump.....	313,649	Mar. 10	837	217	30	942
Booth, Caleb H., Dubuque, Iowa. Attachment for dredge-pumps.....	317,080	May 5	900	50	31	559
Booth, Charles, and R. V. Ney, Worcester, Mass. Preparing wire for drawing.....	332,321	Dec. 15	1579		33	1294
Booth, E. Rutledge, St. Louis, Mo. Stereotype-plate and holder.....	327,648	Oct. 6	901	49	33	36
Booth, Ebenezer H., Kirkwood, N. Y. Seat-lock.....	324,643	Aug. 18	1697	468	32	853
Booth, Edwin H., Preston, county of Lancaster, and F. N. Dyer, Macclesfield, county of Chester, England. Sanitary appliance for children, &c.....	329,127	Oct. 27	2182	{ 565 566 }	33	417
Booth, Erasmus L., Mount Zion, Ill. Buggy-top.....	321,945	July 14	740	194	32	143
Booth, Erasmus L., Mount Zion, Ill. Spring attachment for carriage-bows.....	321,946	July 14	741	194	32	143
Booth & Fliann. (See McKenna and Bulmer, assignors.)						
Booth, George, Philadelphia, Pa. Flue-stop.....	324,216	Aug. 11	1113	301	32	737
Booth, George, assignor to Booth & Son, Toronto, Ontario, Canada. Bath.....	324,293	Aug. 11	1210	329	32	756
Booth, Henry D., Elmira, N. Y. Vise.....	332,478	Dec. 15	1790	470	33	1331
Booth, Henry W., et al. (See Cowan, Miles R. B., assignor.)						
Booth, Isaac E., Jr. (See Stever, Jeremiah, assignor.)						
Booth, John, Central Falls, assignor to S. A. Jenks, Lincoln, R. I. Spindle-supporting bolster and step.....	310,871	Jan. 20	910	248	30	183
Booth, Joseph, et al. (See Aikman, Peter A., assignor.)						
Booth & Son. (See Booth, George, assignor.)						
Booth, William, Rochdale, county of Lancaster, England. Cornet or other musical instruments.....	316,519	Apr. 28	2126	559	31	404
Booth, William, Newark, N. J. Brush back or stock of plastic material.....	329,128	Oct. 27	2183	566	33	417
Boothby, Edward K., Portland, Me. Field or farm hoe.....	319,183	June 2	301	80	31	1104
Borah, James, Altoona, Dak. Ter. Automatic grain-measure for thrashing-machines.....	325,046	Aug. 25	2240	614	32	962
Borchardt, Hugo, Bridgeport, Conn. Machine for setting spiral springs.....	313,706	Mar. 10	902	235	30	955
Borchardt, Hugo, Bridgeport, Conn. Machine for cleaning wire.....	326,939	Sept. 29	2340	{ 612 613 }	32	1473
Borchardt, John F., Pierce City, Mo. Clinometer.....	326,390	Sept. 15	1566	407	32	1319
Bord, William, Green Island, N. Y. Dinner-pail.....	320,454	June 23	2079	547	31	1449
Borgfeldt, Nicholas H., and A. C. Schuts, New York, N. Y. Cigar-bunching machine.....	331,676	Dec. 1	651	{ 160 161 }	33	1112
Borie, Hiram R., assignor of one-half to S. P. M. Tasker, Philadelphia, Pa. Pipe-coupling.....	320,907	June 30	2662	708	31	1565
Borie, Hiram R., New Castle, Del., assignor of one-half to S. P. M. Tasker, Philadelphia, Pa. Tap for screw-threading sockets.....	332,781	Dec. 22	2232	588	33	1417

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Boring, Charles O., et al. (See Sencenbaugh, Samuel S., assignor.)						
Bormann, August, and E. Ekhard, Brooklyn, N. Y. Folding ladder	390,114	June 16	1569	414	31	1349
Born, Fredrick W., Cleveland, Ohio. Oiling-can	311,925	Jan. 27	1496	389	30	252
Born, John C., Belleville, Ill. Steam pumping-engine	322,764	July 21	1846	490	32	352
Bornarth, Daniel M., Shakopee, and T. W. Heintzelman, Minneapolis, Minn. Feed-water heater	327,994	Oct. 13	633	167	33	122
Borntraeger, Frederick H. (See Sieber and Borntraeger.)						
Borrett, Joseph, London, England. Boot and shoe sole plate	390,328	June 16	1884	494	31	1404
Borsch, Henry, Chicago, Ill., assignor to American Optical Company, Southbridge, Mass. Eyeglasses	329,883	Nov. 10	630	160	33	629
Borst, John L. (See Wagner, Anton, assignor.)						
Borst, Valentin, New York, N. Y. Elevator	329,129	Oct. 27	2184	566	33	417
Borthwick, John A., Atlantic City, N. J. Saw-set	329,753	June 23	2457	651	31	1521
Borton, Job, assignor to W. H. Hobbs and J. S. Smith, Barnesville, Ohio. Ironing-table	319,445	June 9	644	174	31	1177
Bortree Corset Company, M. K. (See Prondfit, Andrew E., assignor.)						
Bortree, Maurice R., Chicago, Ill. Corset	312,344	May 19	1899	511	31	889
Boscawen, William, New York, N. Y., assignor to D. L. Thompson, C. A. Perley, and G. Waite, Baldwinville, Mass. Chair	329,805	Nov. 3	511	130	33	602
Bosch, Andreas, Prairie du Chien, Wis. Guard for draw-bridges	325,905	Sept. 8	911	230	32	1191
Bosch, Berthold, Burlington, Iowa. Wagon-brake	310,174	Jan. 6	19	5	30	6
Boschert, Rufus E., Syracuse, N. Y. Strain-indicator for screw-presses	312,800	Feb. 24	1896	502	30	711
Boschert, Rufus E., Syracuse, N. Y. Screw-press	319,184	June 2	302	80, 81	31	1104
Boschert, Rufus E., Syracuse, N. Y. Press	319,185	June 2	304	81	31	1104
Boschke, Albert, San Pedro, Cal. Hydraulic dirt-conveyer	321,573	July 7	227	60	32	45
Bosler, Nick, et al. (See Tompkins, John J., assignor.)						
Bosler, William, et al. (See Tompkins, John J., assignor.)						
Bosmann, Nicolas, assignor of one-half to F. P. Ackerman, Buffalo, N. Y. Nut-lock	325,906	Sept. 8	913	230	32	1191
Boss, Martin P., Oakland, Cal. Apparatus for amalgamating ores. (Reissue)	10,549	Jan. 13	899	244	30	175
Boss, Martin P., Oakland, Cal. Amalgamating pan and settler apparatus for treating ores	315,893	Apr. 14	1274	332	31	237
Boss, Martin P., Oakland, Cal. Amalgamating-pan	325,387	Sept. 1	227	58	32	1058
Boss, Martin P., Oakland, Cal. Friction-clutch	325,388	Sept. 1	228	58	32	1058
Bossard, August, New York, N. Y. Electric-arc lamp	319,781	June 9	1091	289	31	1257
Bossard, August, New York, N. Y. Electric-lamp-globe support	321,788	July 7	516	136	32	96
Bossert, Friedrich W., Offenbach-on-the-Main, Hesse, Germany. Saving-box	329,706	Nov. 3	379	96	33	577
Bossinger, Henry C. (See Tit is and Bossinger.)						
Bossyus, Joseph, Baltimore, Md. Fire-proof floor	319,670	June 9	946	250	31	1231
Bostedo, Louis G., Atlantic, Iowa. Store-service apparatus	330,552	Nov. 17	1509	404	33	808
Bostedo, Louis G., Atlantic, Iowa. Store-service apparatus	330,553	Nov. 17	1511	405	33	808
Boston, Arnet P., Eureka, Tex. Drag-saw	329,531	Nov. 3	149	38	33	533
Boston Vegetable Anesthetic Company. (See Mayo, Uriel K., assignor.)						
Bostrom, Ernst A., Newnan, Ga. Leveling-instrument	314,511	Mar. 24	1996	532	30	1173
Bostwick, Charles F. and H. N. Thayer, Erie, Pa. Child's carriage	328,564	Oct. 20	1385	361	33	267
Bostwick, Jabez A., New York, N. Y., assignor to McMurray, Lang & Burnham. Soldering-iron. (Reissue)	10,672	Dec. 15	2107	556	33	1387
Bostwick, Walter W. (See Pitt, William R., assignor.)						
Bostwick, William W., et al. (See Duncan, James, assignor.)						
Boswell, Arthur C. (See Owen and Boswell.)						
Boswell, George G. F., Indianapolis, Ind. Stalk-harvester	327,649	Oct. 6	201	50	33	36
Bosworth, Charles F., Milford, Conn. Insole for boots or shoes	330,229	Nov. 10	1158	308	33	734
Bosworth, Fred. (See Bosworth, William H., assignor.)						
Bosworth, George P., Pawtucket, R. I. Roller-skate	331,470	Dec. 1	309	83	33	1053
Bosworth, Lorenzo P., Pawtucket, R. I. Jeweler's press	313,650	Mar. 10	838	218	30	942
Bosworth, William H., assignor of one-half to F. Bosworth, Shaytown, Mich. Animal-poke	321,789	July 7	516	136	32	96
Bothe, Henry F. II. (See Fisher, Robert F., assignor.)						
Bothner, Oscar, Leipzig, Germany. Spraying apparatus for malt-floors	326,197	Sept. 15	1305	338	32	1270
Botoford, Alban B., Grand Rapids, Mich. Anal speculum	315,460	Apr. 14	674	175	31	126
Bouchard, John, assignor of one-half to G. H. Webster, Chicago, Ill. Ice-machine	319,551	June 9	789	209	31	1202
Bouchet, Michael, assignor of one-third to M. F. Madden, Louisville, Ky. Adding-machine	314,561	Mar. 31	2065	552	30	1213
Bonck, John M., Gouverneur, N. Y. Running-gear for vehicles	331,471	Dec. 1	310	83	33	1053
Boughton, Charles F. (See Brush and Salomons, assignors.)						
Boughton, William, Caledonia, Ohio. Vehicle-spring	310,175	Jan. 6	20	5	30	6
Boulton, Arthur H. (See Hansen, Andrew P., assignor.)						
Boulden, Alfred. (See Peebles, Francis A., assignor.)						
Boulden, Holman, Millersburg, Ky. Knockdown box	326,202	Sept. 15	1400	364	32	1287
Boulton, Matthew P. W., Tew Park, county of Oxford, and E. Perrett, Westminster, county of Middlesex, England. Caloric-engine	311,102	Jan. 20	1243	341	30	243
Boulton, Matthew P. W., Tew Park, county of Oxford, and E. Perrett, Westminster, county of Middlesex, England. Superheated-steam engine	312,959	Feb. 24	2030	554	30	747
Bourdon, Ernest, Paris, France. Moderator-lamp	332,322	Dec. 15	1580	414	33	1395
Bouret, Napoleon. (See Darozier and Bouret.)						
Bourke, Martin, Youngstown, Ohio. Sash-fastener	331,370	Dec. 1	162	41	33	1027
Bourke, Martin, Youngstown, Ohio. Combination-tool	331,371	Dec. 1	163	41	33	1027
Bourke, William, Brooklyn, N. Y. Adjustable button	318,858	May 26	2526	669	31	1020
Bourne, Edward, Allegheny, Pa. Range-boiler	321,790	July 7	517	137	32	96
Bourne, Jonathan, Jr. (See Bedbury, George W., assignor.)						
Bourne, Theodore F., Bloomfield, N. J. Paper holder or file	312,702	Feb. 24	1697	467	30	688
Bourne, Theodore F., Bloomfield, N. J. Car-starter	322,620	Aug. 4	327	94	32	583
Bourry, Ernest A., Horn, assignor to J. Bourry-Séquin, Zurich, Switzerland. Dynamometer or motive-power balance	332,697	Dec. 22	2124	500	33	1306
Bourry, Jean, Zurich, Switzerland. Piano-frame	322,154	July 14	1022	266	32	194
Bourry-Séquin, J. (See Bourry, Ernest A., assignor.)						
Bousfield, Edward T. (See Howard and Bousfield.)						
Bonslog, W. H. (See Mellette and Harris, assignors.)						
Boutell, Ira. (See Bryan and Boutell.)						
Bouton, George. (See De Dion, Bouton, and Trépardoux.)						
Bouton, Nathaniel S., Hyde Park, Ill. Lumber-drying platen	332,991	Dec. 22	2523	666	33	1470
Bouvier, Louis P., assignor of three-fourths to J. F. Ellis, P. T. Perrott, and T. J. Clark, Toronto, Ontario, Canada. Envelope-machine	321,183	June 30	3023	801	31	1631

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Bouvier, Louis P., assignor of one-half to J. F. Ellis, P. T. Perrott, and T. J. Clark, Toronto, Ontario, Canada. Envelope-blank-feeding mechanism.....	324,644	Aug. 18	1668	468	28	853
Bovee, David W., Richland Centre, Wis. Cultivator.....	329,707	Nov. 3	380	97	28	572
Bowater, Richard. (See Grey and Bowater.)						
Bowbin, John, and M. H. Croker, Chicago, Ill. Device for removing window-sash from frames.....	318,946	June 2	12	3	31	1052
Bowden, Russell, Marblehead, Mass. Machine for skiving leather.....	313,167	Mar. 3	179	44	29	810
Bowen, Abiel. (See Clark, James, assignor.)						
Bowen, Ansley F., Mazeppa, Minn. Bridle.....	331,030	Nov. 24	2121	574	33	932
Bowen, David, assignor of one-fourth to T. B. Peacock, Topeka, Kans. Switch-stand.....	324,526	Aug. 18	1529	422	32	821
Bowen, Edmund J., assignor to T. Kelley, Maynard, Ohio. Coke-oven.....	315,595	Apr. 14	864	227	31	160
Bowen, Ephraim N., et al. (See Blackham, George E., assignor.)						
Bowen, Ephraim N., assignor of one-half to W. S. Bull, Buffalo, N. Y. Bicycle-wheel.....	328,220	Oct. 13	997	259	33	189
Bowen, George W., Fort Wayne, Ind. Machine for bending horseshoe-blanks.....	329,998	Nov. 10	781	200	33	658
Bowen, Henry S. (See Utley and Bowen.)						
Bowen, Herbert A. (See Nicholson and Bowen.)						
Bowen, Philip A., assignor of one-half to Loeffelholz & Co., Milwaukee, Wis. Water-cock.....	312,077	Feb. 10	834	227	30	512
Bowen, Robert J. (See Stedman, George A. and D. E., assignors.)						
Bowen, Zadok W., et al. (See Orr and Selvard, assignors.)						
Bower, Anthony S., St. Neots, county of Huntingdon, and T. Thorp, Whitefield, county of Lancaster, England. Regenerative gas-burner.....	322,038	July 14	864	224	32	165
Bower, Buckland P., Cleveland, Ohio. Sewer-trap.....	324,645	Aug. 18	1701	469	32	854
Bower, George E., assignor to himself and C. Breese, Auburn, N. Y. Lock and latch combined.....	333,440	Dec. 29	3187	820	33	1584
Bower, George P., Milwaukee, Wis. Curtain-fastener.....	325,491	Sept. 1	369	90	32	1086
Bower, Henry, Philadelphia, Pa. Manufacture of ferro-cyanide of potassium.....	312,248	Feb. 17	1078	.....	30	564
Bower, John G., et al. (See McLain, Charles B., assignor.)						
Bower, Joseph W. (See Clemons and Bower.)						
Bower, Oliver C. (See Hostetler, Bower, and Hopwood.)						
Bower, William. (See Miller, Bower, and Coleman.)						
Bower, William W., Romulus, assignor to J. H. Rogers, Wayne, Mich. Hay-carrier.....	330,290	Nov. 10	1159	308	33	734
Bowerman, George H., Newark, N. J. Button or stud.....	328,565	Oct. 20	1385	361	33	267
Bowers, Alphonzo B., San Francisco, Cal. Dredging-machine.....	318,859	May 26	2587	689	31	1021
Bowers, Alphonzo B., San Francisco, Cal. Dredging.....	318,860	May 26	2596	689	31	1023
Bowers, Edward L. (See Grout and Bowers.)						
Bowers, John W., East Douglas, assignor to Douglas Axe Manufacturing Company, Boston, Mass. Blank for axes and similar tools.....	311,866	Feb. 10	531	146	30	456
Bowers, John W., East Douglas, assignor to Douglas Axe Manufacturing Company, Boston, Mass. Die for making axes.....	311,867	Feb. 10	533	146	30	456
Bowers, Joseph R., Concord, N. H. Brick-press.....	316,939	May 5	12	4	31	525
Bowers, William H. H., Salt Lake City, Utah Ter. Calcining and chloridizing furnace.....	311,804	Feb. 3	441	119	30	439
Bowes, James, Waterville, N. Y. Gas-generator.....	316,520	Apr. 23	2127	560	31	404
Bowes, Michael, Raleigh, N. C. Dumping-cart.....	312,078	Feb. 10	835	227	30	512
Bowes, William W., et al. (See Jacobs, Charles A., assignor.)						
Bowie, William S., Gardiner, Me., assignor of one-half to J. H. Scott, Hyde Park, Mass. Harness.....	318,445	May 26	2023	547	31	922
Bowker, Charlotte J., et al. (See Fuller, Solomon, assignor.)						
Bowker, William. (See Locke and Bowker.)						
Bowker, William, Somerville, Mass. Machine for bundling hoops.....	325,492	Sept. 1	369	90	32	1086
Bowles, James W., Louisville, Ky. Attachment for bedsteads.....	329,262	Oct. 27	2368	613	33	453
Bowley, Joseph H., Marengo, Ill. Fire-escape.....	311,805	Feb. 3	443	120	30	432
Bowling, George S. and J. M., Clarksville, Tenn. Lifting-jack.....	320,214	June 16	1699	451	31	1373
Bowling, James M. (See Bowling, George S. and J. M.)						
Bowman, Albert B. (See Shepard, Henry W., assignor.)						
Bowman, Alexander H., Packerton, Pa. Armature for dynamo-electric machines.....	320,754	June 23	2458	652	31	1522
Bowman, Alexander H., Packerton, Pa. Arc lamp.....	324,978	Aug. 25	2151	587	32	945
Bowman, Charles, et al. (See Weaver, Isaac D., assignor.)						
Bowman & Co., Manning. (See Seips, Michael, assignor.)						
Bowman, Cyrus. (See Phreaner, Samuel J., assignor.)						
Bowman, David D., Eureka, Cal. Folding reading-desk.....	317,288	May 5	491	123	31	613
Bowman, Edmund Q., Philadelphia, Pa. Car-strap.....	330,461	Nov. 17	1397	372	33	786
Bowman, Frank, New York, N. Y. Temporary binder.....	313,574	Mar. 10	730	192	30	922
Bowman, Henry N., Springfield, Mass. Addressing-machine.....	327,993	Oct. 13	631	167	33	121
Bowman, Jeffrey E., Norwich, Conn. Knob attachment.....	329,130	Oct. 27	2186	567	33	419
Bowman, John E., Boonsborough, Md. Machine for cutting fat.....	331,862	Dec. 8	915	236	33	1170
Bowman, Robert D. (See Clark and Bowman.)						
Bowman, William R., Danville, Ky. Thill-coupling.....	319,186	June 2	305	81	31	1104
Bowman, William R., Danville, Ky. Car-coupling.....	329,262	Oct. 27	2370	613	33	454
Bown, Albert, assignor of one-half to F. Plumb, Streator, Ill. Steam or vapor engine.....	318,419	Jan. 6	279	77	30	54
Bown, Albert, assignor of one-half to F. Plumb, Streator, Ill. Implement for crimping shells.....	316,412	May 19	1985	534	31	905
Bowron, William L., et al. (See Vogel, John B., assignor.)						
Bowyer, Joseph N., Alexander, Ill. Draft-equalizer.....	317,081	May 5	900	50	31	559
Boyce, Caroline, New York, N. Y. Book cover or protector.....	326,838	Sept. 22	2192	572	32	1439
Boyce, John H., Brooklyn, N. Y. Neckscarf-exhibitor.....	329,258	Oct. 27	2366	612	33	453
Boyd, Carrie C., Fruitport, Mich. Handle for package-carriers.....	329,131	Oct. 27	2186	567	33	419
Boyd, David, Damariscotta Mills, Me. Ice-scraper.....	310,176	Jan. 6	21	6	30	6
Boyd, George H., Marysville, Cal. Suspenders.....	332,479	Dec. 15	1791	470	33	1331
Boyd, Henry E. (See Patterson and Boyd.)						
Boyd, J. A., et al. (See Brewis, John J., assignor.)						
Boyd, James, St. Paul, Minn. Heating stove.....	327,650	Oct. 6	203	50	33	36
Boyd, James A., Minneapolis, Minn. Device for disintegrating clay and separating the stones therefrom.....	328,756	Oct. 20	1643	428	33	314
Boyd, James A., Minneapolis, Minn. Clay-pulverizer.....	329,708	Nov. 3	380	97	33	577
Boyd, John, Glasgow, county of Lanark, Scotland. Stop-motion mechanism for winding and twisting machines, &c.....	329,259	Oct. 27	2366	612	33	453
Boyd, John W., Vevay, Ind. Churn-dasher.....	329,259	Oct. 27	2366	612	33	453
Boyd, Maggie, Riverside, Cal. Combined storm-shield and overdress.....	318,538	May 26	2154	580	31	946
Boyd, Margaret E., Carthage, Ill. Foot-warmer.....	311,283	Jan. 27	1514	413	30	299

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Boyd, Nathaniel W., Steelton, Pa. Railway-frog	312,801	Feb. 24	1928	502	30	711
Boyd, Robert M., Racine, Wis. Railway-spike	328,103	Oct. 13	778	203	33	147
Boyd, William S., Washington, D. C. Escapement or feeding device for type-writing machines	326,011	Sept. 8	1049	267	32	1916
Boydston, Howell T., Monmouth, Kans. Washing-machine	314,313	Mar. 24	1736	459	30	1134
Boyer, Dayton H. (See Rohrer and Boyer.)						
Boyer, Oliver P., Dayton, Ohio. Cooling-board	323,391	Aug. 4	13	3	39	525
Boyer, Samsen, administrator. (See Murray, Charles E.)						
Boyes, Ebeneser, Peckham, county of Surrey, England. Coffee or tea pot	325,223	Aug. 25	2470	679	32	1004
Boyington, Levi C., Chicago, Ill. Folding bed	320,837	June 23	2555	677	31	1540
Boyington, Levi C., Chicago, Ill. Folding bedstead	330,373	Nov. 17	1279	340	33	765
Boyle & Co., E. C. (See Dodge, Charles H., assignor.)						
Boyle, David, Chicago, Ill. Gas-compressing pump	319,446	June 9	645	174	31	1177
Boyle, David, Chicago, Ill. Apparatus for attomperating or cooling beer	320,618	June 23	2294	675	31	1489
Boyle, Homer L., Hamilton, Mich. Stump-extractor	310,644	Jan. 13	618	170	30	124
Boyle, James E., Brooklyn, N. Y. Tank valve and lever	328,873	Oct. 20	1785	466	33	341
Boyle, James E., Brooklyn, N. Y. Urinal	329,806	Nov. 3	512	130	33	602
Boyle, James E., Brooklyn, N. Y. Self-closing cock	329,807	Nov. 3	514	131	33	602
Boyle, Jay C., Pittsburg, assignor of two-thirds to W. S. Huselson and S. S. Robertson, Allegheny City, Pa. Car-coupling	317,082	May 5	901	50	31	580
Boyle, Jeffrey C., Brooklyn, N. Y. Electric liquid gage and alarm	317,289	May 5	492	124	31	613
Boyle, Jeffrey C., Brooklyn, N. Y. Magneto-electric indicator	332,480	Dec. 15	1791	471	33	1331
Boyle, John. (See Brass, Robert, assignor.)						
Boyle, Peter, Chicago, Ill. Holder for tablets and pencils	327,759	Oct. 6	332	26	33	58
Boyle, Robert K., Liverpool, England. Telegraph	316,345	May 19	1900	512	31	889
Boyle, Thaddeus W., Augusta, Ga. Plow-stock	322,225	Dec. 15	1449	375	33	1271
Boyle, William C., Arcola, Ill. Wagon running-gear	329,246	July 14	1131	295	32	215
Boyles, Augustine B., Boston, Mass. Life-boat	311,868	Feb. 10	534	146	30	456
Boyne, Michael, and A. E. Smith, Watertown, Wis. Rotary engine	329,619	Nov. 3	267	69	33	556
Boynton, Alonzo R., assignor of one-half to J. Stompe, Auburn, N. Y. Button	315,694	Apr. 14	1276	332	31	238
Boynton, Andrew J., Malden, Mass. Type-form for printing paper-bag tubes	331,372	Dec. 1	163	49	33	1027
Boynton, Eben M., West Newbury, Mass., assignor to J. B. Watkins, Lawrence, Kans. Jetty, breakwater, or similar structure	315,384	Apr. 7	545	141	31	99
Boynton, Edward S., Bridgeport, Conn. Station train-indicator	317,616	May 12	929	238	31	699
Boynton, George O., Boston, assignor to S. Moore, trustee, Newton, Mass. Roller-skate wheel	330,554	Nov. 17	1516	405	33	809
Boynton, George O., and G. Stephen, Boston, Mass., assignors, by mesne assignments, to Leatheroid Novelty Company. Top roll for spinning-machines, &c	321,574	July 7	228	61	32	45
Boynton, Horace S., Oshkosh, Wis. Tenoning-machine	329,007	Oct. 27	2004	521	33	387
Boynton, Leander W., Hartford, Conn. Turn-up bed	321,418	July 7	6	2	32	4
Boynton, Leander W., Hartford, Conn. Spring bed-bottom	321,419	July 7	7	2	32	4
Bracher, Thomas W., Woodbridge township, Middlesex county, N. J., and T. Webb, New York, N. Y., assignors to said Bracher. Sewing-machine	324,217	Aug. 11	1114	301	32	737
Bracken, Edward J., Columbus, Ohio. Lath attachment	332,481	Dec. 15	1792	471	33	1331
Brackett, Cephas W., Jordan, N. Y. Protractor	328,281	Oct. 13	998	260	33	129
Brackett, Hiram E., and F. L. Sawyer, Hampden, Me. Band for shingle-bunches	323,493	Aug. 4	140	42	32	548
Brackett, Hiram E., and F. L. Sawyer, Hampden, Me. Shingle-binding tool	326,621	Sept. 22	1867	429	32	1380
Brackett, Jefferson B., Leeds Junction, Me. Stone jug	312,180	Feb. 10	929	269	30	530
Brackett, Jefferson B., Leeds Junction, Me. Stopper for jugs	315,114	Apr. 7	170	41	31	31
Brackett, John W., Boston, Mass. Piano string plate	328,455	Oct. 20	1242	322	33	242
Bradbeck, Thomas J., assignor of one-half to Putnam & Wineman, Detroit, Mich. Chimney-cowl	319,532	June 9	790	209	31	1202
Bradbury, Benjamin B., New York, N. Y. Piano	328,566	Oct. 20	1386	361	33	268
Bradbury, Edward T., Mahanoy City, Pa. Weight-cord and attachment for windows	326,392	Sept. 15	1569	407	32	1319
Bradbury, Luther M., Jr., Quincy, Mass. Sled-brake	319,950	June 16	1347	354	31	1309
Braddock, Edward L., Medford, and D. A. Ritchie, Chelsea, Mass. Apparatus for coating metals	311,284	Jan. 27	1515	413	30	299
Bradford, William D., Denver, Colo. Well-reamer	315,596	Apr. 14	865	228	31	161
Bradford, Charles A., Peru, N. Y. Device for checking horses	310,872	Jan. 20	911	248	30	183
Bradford, Chester. (See Leonard, Charles N., assignor.)						
Bradford, Daniel W., Allegheny, Pa. Roll for rolling-mills	324,807	Aug. 25	1921	528	32	902
Bradford, Erasmus F., Boston, Mass., assignor to Singer Manufacturing Company of New Jersey. Binding fabrics	316,521	Apr. 28	2128	500	31	404
Bradford, J. P., et al. (See Johns, Frank L., assignor.)						
Bradford, John, assignor to himself and M. W. Hanley, Chicago, Ill. Device for operating power grain-shovels	317,063	May 5	202	51	31	560
Bradford, John B., San Marcos, assignor of one-half to S. F. McAllister, B. F. Donaldson, and H. E. Runnels, Hays County, Tex. Packing attachment for cotton-presses	327,858	Oct. 6	467	119	33	81
Bradford, Lemuel, 2d, Plymouth, Mass. Nail-machine	333,108	Dec. 29	2623	704	33	1504
Bradford, Walter C., Germantown, Cal. Two-wheeled vehicle	329,132	Oct. 27	2187	577	33	418
Bradish, Nelson P., assignor of one-half to M. Cockrell, Jerseyville, Ill. Fence-making machine	314,646	Mar. 31	2176	577	30	1232
Bradley, Alfred, Dayton, Ohio. Hub for vehicle-wheels	324,218	Aug. 11	1115	302	32	737
Bradley, Benjamin H., Philadelphia, Pa., assignor to C. V. Stoddard, Brooklyn, N. Y. Button	327,515	Oct. 6	6	2	33	3
Bradley, Charles B. (See Hubbard, William W., assignor.)						
Bradley, Charles S., Yonkers, assignor to Bradley Electric Power Company, New York, N. Y. Secondary battery	312,802	Feb. 24	1820	502	30	712
Bradley, Charles S., Yonkers, assignor to Bradley Electric Power Company, New York, N. Y. Electrical conducting material	312,803	Feb. 24	1831		30	712
Bradley, Christopher C. (See Deering, Michael, assignor.)						
Bradley, Christopher C., Syracuse, N. Y. Mowing-machine	329,709	Nov. 3	382	97, 98	33	578
Bradley Electric Power Company. (See Bradley, Charles S., assignor.)						
Bradley, Henry A., New York, N. Y. Hydrocarbon-burner	322,676	July 21	1702	451	32	396
Bradley, Henry E., Buchanan, Mich. Spark-arrester	317,290	May 5	493	124	31	613
Bradley & Hubbard Manufacturing Company. (See Evans, John A., assignor.)						
Bradley & Hubbard Manufacturing Company. (See McMahon, Dennis, assignor.)						
Bradley, James J., Harrison, assignor of one-half to F. R. Upton, Orange, N. J. Dynamo-electric machine	324,075	Aug. 11	904	250	32	696
Bradley, John, Chelmsford, Mass. Knitting-machine	320,619	June 23	2226	606	31	1489

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Bradley, John L., and R. T. Smith, New Haven, Conn. Jib-hank.....	325,047	Aug. 25	2942	615	32	902
Bradley, Joseph D. (See Brown and Bradley.)						
Bradley, Joseph G., Wetmore, Kans. Rolling cultivator and pulverizer.....	323,266	July 28	2526	671	32	484
Bradley, Lewis A. (See Post, William W., assignor.)						
Bradley Manufacturing Company, Davitt. (See Packer, John F., assignor.)						
Bradley & Metcalf. (See Walden, Frank D., assignor.)						
Bradley, Milton, Springfield, Mass. Toy spring-gun.....	310,873	Jan. 20	912	248	30	184
Bradley, Stephen, New Haven, Conn. Heating apparatus for buildings.....	330,462	Nov. 17	1397	372	33	786
Bradley, Sylvester, Bloomington, Ill. Machine for making lightning-rod connections.....	323,105	July 28	2313	611	32	444
Bradshaw, Ira H., Sacramento, Cal. Car-coupling.....	332,870	Dec. 22	2355	622	33	1438
Bradshaw, J. W. (See Weeden, Alfred, assignor.)						
Bradshaw, John A., assignor of three-fourths to J. Leach, O. V. Smith, and T. F. Byron, Lowell, Mass. Music-box.....	310,645	Jan. 13	619	171	30	124
Bradshaw, John A., assignor to D. Walker, trustee, Lowell, Mass. Carding-engine.....	320,356	Oct. 27	2514	648	33	478
Bradshaw, Joseph D., Providence, R. I. Saw-table gage.....	327,651	Oct. 6	904	51	33	37
Bradshaw, Silas S., assignor to S. S. Chisholm, Chicago, Ill. Cabinet-bedstead.....	323,267	July 28	2527	671	32	484
Bradshaw, Silas S., assignor to S. S. Chisholm, Chicago, Ill. Folding bed.....	327,760	Oct. 6	333	86	33	59
Bradt, Charles M., Newton, Kans. Calculating device.....	327,761	Oct. 6	337	86	33	59
Bradway, Charles P., Stafford, Conn. Water-motor.....	322,785	July 21	1847	490	32	353
Bradway, Charles P., Stafford, Conn. Turbine water-wheel.....	322,779	Oct. 13	876	227	33	166
Brady, Edward J., Brooklyn, N. Y. Pan for water-closets.....	310,370	Jan. 6	280	77	30	54
Brady, Edwin L., Stamford, Conn., assignor to River and Rail Electric Light Company, Ohio County, W. Va. Apparatus for utilizing the current force of water.....	328,447	Oct. 13	1231	319	33	233
Brady, James, Brooklyn, N. Y. Binder for electrical conductors.....	310,177	Jan. 6	22	6	30	7
Brady, James. (See Willson, Thomas L., assignor.)						
Brady, James, Brooklyn, and A. V. Brokhalme, New York, N. Y. Guard for razor-blades.....	316,731	Apr. 28	2429	632	31	459
Brady, James T. (See Sheehan, Thomas, assignor.)						
Brady, John, Philadelphia, Pa. Combined burglar-alarm and sash-fastener.....	321,184	June 30	3025	602	31	1631
Brady, Patrick T., New York, N. Y. Nut-lock.....	315,895	Apr. 14	1277	333	31	238
Brady, Philip, New York, N. Y. Water-closet.....	328,180	Oct. 13	177	222	33	166
Bragg, Frederick S., Corning, N. Y. Spark-arrester.....	325,907	Sept. 8	914	230	32	1191
Bragg, John. (See Williams and Bragg.)						
Bragg, Thomas P. (See Brown and Bragg.)						
Bragg, Thomas P., Ennis, assignor of one-half to G. S. Higginbotham, Ellis County, Tex. Hay or cotton press.....	323,268	July 28	2530	672	32	484
Braggins, Seth, Rochester, N. Y. Regulator for controlling combustion in furnaces.....	318,688	May 26	2354	622	31	981
Brann, James, Jersey City, N. J. Rod for connecting railway-switch stands to the switch.....	317,617	May 12	930	229	31	699
Bratley, James S., Wausau, Ohio. Bag-holder.....	332,226	Dec. 15	1450	376	33	1271
Brainard, Adelbert M., Chicago, Ill. Generator for hydrocarbon-vapor burners.....	320,838	June 23	2557	677	31	1540
Brainard, Adelbert M., Chicago, Ill. Hydrocarbon vapor or gas burner.....	332,871	Dec. 22	2356	622	33	1438
Brainard, Amos H. (See Coes and Miller, assignors.)						
Brainard, Amos H., and Z. B. Coes, Hyde Park, Mass.; said Coes assignor to said Brainard. Automatic gear-cutting machine.....	310,247	Jan. 6	107	30	30	22
Brainard, Edwin S., Manchester, Conn. Composite metal bar.....	324,527	Aug. 18	1531	422	32	822
Brainard, Edwin S., Manchester, Conn. Combined iron and steel file.....	324,528	Aug. 18	1532	422	32	822
Brainard, Morris F., Brooklyn, N. Y. Excavator.....	332,227	Dec. 15	1451	376	33	1271
Brainard, Morris F., Brooklyn, N. Y. Universal swivel and pipe connection for excavators.....	332,228	Dec. 15	1452	377	33	1272
Brainard, William S., Brooklyn, Mass. Tack-pulling mechanism for boot and shoe sewing machines.....	329,357	Oct. 27	2516	649	33	479
Brainard, Frank W., Chicago, Ill. Wire-barbing machine.....	310,178	Jan. 6	24	6	30	7
Brainard, Frank W., Chicago, Ill. Barbed fencing.....	314,512	Mar. 24	1997	532	30	1173
Brainard, George B., Brooklyn, N. Y. Photographic camera.....	331,677	Dec. 1	654	161	33	1113
Brainard, Orrin N., St. Louis, Mo. Box-fastener.....	323,106	July 28	2313	612	32	444
Braithwaite, Charles L., Jr., and I. Kendal, county of Westmoreland, England. Apparatus for transferring heat from one current of air to another.....	326,839	Sept. 22	2193	572	32	1439
Braithwaite, Isaac. (See Braithwaite, Charles L., Jr., and I.)						
Braman, George H., et al. (See Prentiss, Frank S. R., assignor.)						
Brambach, Stephan, New York, N. Y. Upright-piano action.....	322,089	July 14	931	241	32	178
Bramberg, Charles, Brooklyn, assignor to Eagle Pencil Company, New York, N. Y. Combined scissors and pencil-holder.....	318,346	May 19	1902	512	31	889
Bramhall, Charles E., Boston, Mass. Musical reed.....	321,822	July 7	653	169	32	119
Bramhall, Harry H., Madison, Wis. Hoop-skirt.....	318,162	May 19	1651	441	31	844
Bramwell, William C., Hyde Park, Mass. Feeding mechanism for carding-engines.....	311,948	Feb. 10	656	181	30	478
Branch, Joseph W. (See Fosburgh, Robert L., assignor.)						
Branch, Joseph W. (See Reinschmidt, Frank, assignor.)						
Brand, Charles, Oakland, Cal. Step-ladder.....	311,949	Feb. 10	660	181	30	478
Brand, Conrad. (See Zornow, Charles, assignor.)						
Brand, Henry, Sheboygan, Wis. Adjustable gage for supporting clapboards.....	332,323	Dec. 15	1581	415	33	1295
Brandenburg, Martin C., Cambridge City, Ind. Blacksmith's punch.....	314,647	Mar. 31	2177	577	30	1239
Brandenberger, Frederick, deceased, Danville, Ill.; F. Brandenberger executrix. Paint-mixer.....	330,555	Nov. 17	1517	405	32	809
Brandenberger, Frederika, executrix. (See Brandenberger, Frederick.)						
Brandenburg, Edward A., Cedar Rapids, Iowa. Fountain attachment for pens.....	333,104	Dec. 22	2685	704	33	1505
Brandon, George M., Harveyville, assignor to himself and R. P. Robinson, Wilkes-Barre, Pa. Carpet stretcher and tacker.....	327,131	Sept. 22	2594	676	32	1517
Brandon, James, New York, N. Y. Packing for pistons.....	315,115	Apr. 7	171	41	31	31
Brandon, William. (See Johnson, Thomas, assignor.)						
Brandow, John W. (See Coppernoll and Brandow.)						
Brandt, Andrew G., Scranton, Pa. Thill-coupling.....	317,064	May 5	204	51	31	560
Brandt, Christian H., and C. J. Werth, Loganville, Wis. Portable fence.....	328,104	Oct. 13	780	203	33	148
Brandt, John. (See Brandt, Louis and J.)						
Brandt, Louis, assignor, to himself, D. Edwards, and B. F. Darbyshire, Sabina, Ohio. Nut-lock.....	322,155	July 14	1022	266	32	195
Brandt, Louis and J., New York, N. Y. Water-closet.....	315,467	Apr. 14	675	175	31	126
Branford Lock Works. (See Morton, Henry, assignor.)						
Branford Lock Works. (See Regan, William, assignor.)						
Branford Lock Works. (See Thumshirn, George, assignor.)						
Branga, Paul H., Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Socket or holder for incandescent lamps.....	316,003	Apr. 21	1424	370	31	271

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Branig, Julius M., New York, N. Y. Music-leaf turner.....	311,950	Feb. 10	661	181	30	479
Bransford, George W. (See Pueta, Tillman, Jr., assignor.)						
Branson, Edwin E., Chicago, Ill. Knitting-machine.....	333,102	Dec. 29	2678	703	33	1504
Branstetter, Simon U., Vandalia, Mo. Car-coupling.....	336,622	Sept. 22	1868	489	32	1380
Brant, William I., Covington, Ohio. Machine for making combined slat and wire fences.....	337,859	Oct. 6	458	119	32	81
Brantley, Thomas, assignor of one-half to W. H. Sawyer, Fort Valley, Ga. Steam-engine.....	325,725	Sept. 8	689	172	32	1148
Brasher, Allen M., Alexandria, La. Baling-press.....	316,732	Apr. 28	2431	633	31	459
Brass, Robert, assignor to J. Boyle, Brooklyn, N. Y. Machine for riveting staples to mail-bags.....	331,373	Dec. 1	164	42	32	1027
Brassington, Walter J., Brooklyn, N. Y. Blind-slat fastener.....	322,247	July 14	1132	295	32	215
Bratt, Levi H. (See Birdsall, Bratt, and Wetmore.)						
Bratt, Levi H. (See Wetmore and Bratt.)						
Brauch, Joseph W. (See Schulte, Anthony, assignor.)						
Brauer, Louis, Philadelphia, Pa. Car-brake.....	314,422	Mar. 24	1866	497	30	1151
Branit, Louis P., assignor of one-half to H. Dozola, Lowell, Mass. Paper-folding machine.....	323,558	Aug. 4	232	68	32	564
Braun, John, assignor to American Manufacturing Company, Philadelphia, Pa. Door-hanger.....	332,185	Dec. 8	1388	359	33	1253
Braun, John, and F. Bohn, Buffalo, N. Y. Window-glass fastener.....	316,940	May 5	14	4	31	525
Braun, Wunibald. (See Voigt, Heinrich, assignor.)						
Braune, Heinrich A. W., Valparaiso, Ind. Self-acting solar reflector.....	326,711	Sept. 22	1987	521	32	1403
Braunfeld, Henry E., assignor of one-half to G. F. Scholler, Philadelphia, Pa. Fire-escape.....	316,870	Apr. 28	2622	663	31	495
Brauninger, George M., Janesville, assignor of one-half to E. Wuesthoff, Milwaukee, Wis. Boiler-water purifier.....	323,494	Aug. 4	142	42	32	549
Brawner, William S., St. Louis, Mo. Liniment.....	320,041	June 16	1466		31	1331
Bray, Austin B., Gloucester, Mass. Cake of cured fish and method of preparing.....	326,099	Sept. 15	1167		32	1245
Bray, Mellen. (See Meade, George H., assignor.)						
Bray, Mellen, Newton, Mass. Manufacture of reed-plates and reeds.....	312,322	Feb. 17	1187	325	30	584
Bray, Mellen, Newton, Mass. Musical reed.....	318,947	June 2	13	4	31	1051
Bray, Mellen, Newton, Mass. Making tubular rivets.....	328,757	Oct. 20	1644	428	33	315
Bray, Mellen, Newton, Mass. Lacing-stand.....	329,263	Oct. 27	2371	613	33	454
Bray, Mellen, Newton, Mass. Device for setting lacing-studs.....	329,264	Oct. 27	2772	614	33	454
Bray, Mellen, Newton, Mass. Fly-book for anglers.....	333,324	Dec. 29	3063	799	33	1572
Bray, Morris P., Birmingham, Conn. Corset.....	321,791	July 7	518	137	32	97
Bray, Morris P., Birmingham, Conn. Corset.....	323,630	Aug. 4	328	94	32	553
Bray, Morris P., Ansonia, Conn. Corset.....	322,677	July 21	1703	451	32	327
Bray, Morris P., Ansonia, Conn. assignor, by mesne assignments, to Godfrey Seamless Pocket Company, Boston, Mass. Pocket for garments.....	322,378	Oct. 13	1135	293	33	215
Bray, Morris P., Ansonia, Conn. assignor, by mesne assignments, to Godfrey Seamless Pocket Company, Boston, Mass. Pocket for garments.....	322,379	Oct. 13	1136	293	33	215
Bray, William C., Newton, Mass. Rivet.....	326,100	Sept. 15	1168	298	32	1245
Brazelle, Benjamin, St. Louis, Mo. Governor for engines.....	313,168	Mar. 3	180	44	30	810
Breach, James J., South Weymouth, Mass. Machine for grading patterns.....	318,539	May 26	2155	580	31	946
Breach, James J., South Weymouth, Mass. Machine for cutting boot or shoe soles.....	318,540	May 26	2160	581	31	946
Brearey, Frederick W., Blackheath, county of Kent, England. Apparatus for effecting aerial navigation.....	320,042	June 16	1467	386	31	1331
Breckenridge, Joseph C., et al. (See Reznor, George, assignor.)						
Breckenridge, Moses P. (See Campbell, Thomas J., assignor.)						
Breckenridge, Orlo, Westfield, Mass. Churn attachment.....	321,678	July 7	358	95	32	67
Bredée, Giacomo, New York, N. Y. Alarm-lock.....	326,840	Sept. 22	2195	572	32	1439
Bredée, Giacomo, New York, N. Y. Bird-cage.....	326,841	Sept. 22	2196	573	32	1439
Breed, Richard E. (See Ellis, Josiah W., assignor.)						
Breed, Sylvester B., Lynn, Mass. Buffing-roll.....	323,779	Aug. 4	517	146	32	619
Breer, Caroline H. (See Breer, Henry, assignor.)						
Breer, Henry, assignor to C. H. Breer, De Witt, N. Y. Apparatus for drying fertilizers.....	313,401	Mar. 3	507	133	30	871
Breer, Henry, assignor to C. H. Breer, De Witt, N. Y. Desiccating apparatus.....	313,402	Mar. 3	508	133	30	871
Breer, Henry, assignor to C. H. Breer, De Witt, N. Y. Desiccating apparatus.....	326,842	Sept. 22	2196	573	32	1440
Breer, Henry, assignor to C. H. Breer, De Witt, N. Y. Desiccating apparatus.....	326,843	Sept. 22	2198	574	32	1440
Breese, Christopher. (See Bower, George E., assignor.)						
Breese, John H., Davenport, Iowa. Floating filter.....	318,689	May 26	2356	629	31	981
Brehmer, August. (See Brown and Brehmer.)						
Brehmer, August, Leipzig, Germany, and G. Brown, Glasgow, Scotland. Binding books.....	312,006	Feb. 24	1572	430	30	666
Breiling, Revere M., Brooklyn, N. Y. Manufacture of varnish from sludge-tar.....	315,597	Apr. 14	866		31	161
Breitenbucher, Philip. (See Müller, William, assignor.)						
Breitenmoser, Joseph, St. Louis, Mo., assignor of one-third to W. H. Doolittle, Washington, D. C. Cleaning, hulling, and grinding mill.....	322,105	Oct. 13	781	204	33	148
Breithut, Oscar P., Williamsport, Pa. Spring-friction mirror-pivot.....	323,493	Sept. 1	371	91	32	1088
Brélaz, Georges L. (See Pictet and Brélaz.)						
Bremaker, Charles, Louisville, Ky., and M. Zier, Sr., New Albany, Ind. Paper-pulp digester.....	322,105	Dec. 29	2686	704	33	1505
Bremerman, Fredrick, Indianapolis, Ind. Fence.....	313,169	Mar. 3	182	44	30	810
Brengel, Jacob, Jersey City, N. J. Damping-roller for lithographic presses.....	327,995	Oct. 13	634	168	33	122
Brennan & Co. Southwestern Agricultural Works et al. (See Wolfe, Harvey R. assignor.)						
Brennan, Daniel, Jr., Bayonne, N. J. Stone and ore crusher.....	315,468	Apr. 14	676	176	31	126
Brennan, Daniel, Jr., Bayonne, N. J. Stone and ore crusher.....	315,469	Apr. 14	678	177	31	127
Brennan, James M., Elkhart, Ind. Self-closing cock for water-pipes.....	318,063	May 19	1551	416	31	824
Brennan, William N. (See Harney, Michael C., assignor.)						
Brenner, Francis X., Philadelphia, Pa. Awning.....	330,956	Nov. 24	2037	551	33	916
Brenner, Morris, New Haven, Conn. Show-stand.....	323,631	Aug. 4	329	94	32	563
Brenton, Francis W., Foxborough, assignor of one-half to H. Ashley, Belleville, Ontario, Canada. Combined cheese-bandage and shipping-case.....	315,896	Apr. 14	1278	333	31	238
Breon, George. (See Shoesmith, Edward W., assignor.)						
Brereton, Richard. (See Crump and Brereton.)						
Breslau, Eduard. (See Schlickeysen and Breslau.)						
Breslau, Edward, assignor to T. Rollo, Berlin, Germany. Apparatus for making sand-molds for casting metal.....	315,116	Apr. 7	172	42	31	32
Bressac, Guillaume, Quebec, Quebec, Canada. Heel-machine.....	327,652	Oct. 6	206	51, 52	33	37
Bressler, John. (See Hunt and Bressler.)						
Bresslos, Heaton J., et al. (See Drifill, Frederick, assignor.)						
Brett, Mathew D., assignor of one-fourth to D. S. Covert, Denver, Colo. Smelting ores.....	320,908	June 30	2663	708	31	1366

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Brettell, Edward W., assignor of one-half to C. W. A. Romer and J. H. Wilkins, Newark, N. J. Latch	316,871	Apr. 28	2622	683	31	495
Brettell, Edward W., assignor of one-half to C. W. A. Romer and J. H. Wilkins, Newark, N. J. Key	318,861	May 26	2601	690	31	1023
Brettell, Edward W., assignor of one-half to C. W. A. Romer and J. H. Wilkins, Newark, N. J. Lock	319,058	June 2	152	41	31	1075
Bretzfeld, Samuel, New York, N. Y. Belt-fastening	316,872	Apr. 28	2623	684	31	495
Bretzfeld, Samuel, New York, N. Y. Bodice-belt	330,089	Nov. 10	910	236	33	624
Breux, Joseph F., Philadelphia, Pa. Rotary pump	332,586	Dec. 15	1956	512	33	1359
Brevoort, H. N., et al. (See Brooks, George, assignor.)						
Brevoort, Henry L. (See Roberts, Isaiah L., assignor.)						
Brevoort, Henry L., Brooklyn, N. Y. Candle	310,874	Jan. 20	913	248 249	30	184
Brevoort, William H. (See Barmore, Albert K., assignor.)						
Brevoort, William H., Vincennes, Ind. Fence	310,555	Jan. 13	509	140	30	104
Brewer, Albert L., et al. (See Heesen, Hendrick, assignor.)						
Brewer, Albert L., and H. Heesen, assignors to themselves and H. Brewer & Co., Tecumseh, Mich. Clay-crusher	315,897	Apr. 14	1279	333	31	238
Brewer, Albert L., and H. Heesen, assignors to themselves, H. W. Conklin, C. J. Brewer, and H. Stout, Tecumseh, Mich. Brick and tile machine	318,347	May 19	1903	513	31	890
Brewer, B. B. (See Smith and Bell, assignors.)						
Brewer, Charles J., et al. (See Brewer and Heesen, assignors.)						
Brewer, Charles J., et al. (See Hoeren, Hendrick, assignor.)						
Brewer, Charles W., Racine, Wis. Piano-action	323,632	Aug. 4	330	95	32	584
Brewer & Co., H. (See Brewer and Heesen, assignors.)						
Brewer, David W. (See Perrin, Charles, assignor.)						
Brewer, Francis A., San Francisco, Cal., and W. S. How, assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Forceps for applying rubber-dam clamps	315,706	Apr. 14	1006	265	31	189
Brewer, Horatio J., New York, N. Y. Galvanic battery	323,002	Aug. 11	677	190	32	658
Brewer, Horatio J., New York, N. Y. Galvanic battery	323,003	Aug. 11	678	190	32	658
Brewer, Horatio J., New York, N. Y. Galvanic battery	323,004	Aug. 11	679	190	32	658
Brewer, Horatio J., New York, N. Y. Galvanic battery	323,005	Aug. 11	680	190	32	658
Brewer, Roland L., assignor to E. Miller & Co., Meriden, Conn. Extension-chandelier	316,330	Apr. 21	1734	453	31	326
Brewer, Russell, Newark, N. J. Car-axle box	327,916	Oct. 6	531	138	33	95
Brewer, William J., London, England. Road-vehicle	312,960	Feb. 24	2652	554	30	747
Brewer, William J., London, England. Road-vehicle. (Reissue)	10,635	Aug. 18	1894	520	32	891
Brewis, John J., assignor to North Star Iron Works Company, Minneapolis, Minn. Car-wheel lathe	312,961	Feb. 24	2632	555	30	748
Brewis, John J., assignor of two-thirds to J. A. Boyd, Minneapolis, Minn., and H. R. Dickinson, Keokuk, Iowa. Brick-machine	394,453	Aug. 18	1427	390	32	803
Brewster, Hiram B., Centralia, Ill. Tag-fastener	310,785	Jan. 13	801	217	30	157
Brewster, Isaac S., Dover, N. H. Boot or shoe heel and guard	318,440	May 26	2029	547	31	922
Brewster, James B. (See Mote and Brewster.)						
Brewster, John C., Raleigh, N. C. Sign	322,248	July 14	1133	295	32	215
Brewster, Walter M. (See Ruel, Laurent, assignor.)						
Breyer, Friedrich, Vienna, Austria-Hungary. Producing filtering media	321,947	July 14	742	194	32	143
Briant, John M., et al. (See Sprinkle, George E., assignor.)						
Brice, Jonathan K. (See Henderson, James, assignor.)						
Brick, James, Clifton, N. J. Horse-blindfold	327,762	Oct. 6	337	87	33	50
Brick, Samuel R., Stapleton, N. Y. Gas-conduit	327,996	Oct. 13	635	168	33	122
Brickell, Nicholas, assignor of one-half to T. J. Brickell, Brinkley, Ark. Machine for grinding tools	390,755	June 23	2460	652	31	1522
Brickell, Thomas J. (See Brickell, Nicholas, assignor.)						
Brickell, William S., Olean, N. Y. Sliding door	330,080	Nov. 10	911	236	33	684
Brieker, David W., Mercersburg, Pa. Combined cultivator and plow	324,219	Aug. 11	1116	302	32	737
Brieker, George S., Newville, Pa. Grain-elevator	329,710	Nov. 3	324	98	33	578
Brickman, Philip, Cleveland, Ohio. Feed-water heater and filter	329,265	Oct. 27	2373	614	33	454
Bridewell, Richard F., San Francisco, Cal. Hydromotor for street-railways	326,198	Sept. 15	1305	338 339	32	1270
Bridge, Lewis, Philadelphia, Pa. Bracket	330,672	Nov. 17	1658	446	33	839
Bridge, Thomas, Eastbourne, county of Sussex, England. Saving ships from foundering, &c.	326,596	Sept. 22	2220	506	32	1454
Bridgeport Brass Company. (See Beach, Nelson M., assignor.)						
Bridgeport Brass Company. (See Somers, George E., assignor.)						
Bridgeport Brass Company. (See Stoddard, Samuel G., assignor.)						
Bridgers, Robert R., Jr., Wall, and W. H. Good, Greensburg, Pa. Fish-plate for railway-rails	326,393	Sept. 15	1570	408	32	1320
Bridges, Appleton S., St. Louis, Mo. Vehicle-spring	323,906	Aug. 11	681	191	32	658
Bridgman, Alfred. (See Lines and Bridgman)						
Bridgman, Edward H., Pittsfield, Mass. Slitter-shaft for paper-cutting machines	325,812	Sept. 8	805	202	32	1170
Brien, James T., Hoosick Falls, N. Y. Paint-pail	332,043	Dec. 8	1184	310	33	1218
Brierley, John, Easthampton, Mass. Top roller for drawing-frames, &c.	310,187	June 2	306	81	31	1104
Briden, Burt A., and E. Cannon, Jr., Moravia, N. Y. Stool	320,620	June 23	2296	606	31	1489
Brigg, William W., Washington, D. C., assignor of one-third to E. A. Blakely, New Orleans, La. Cotton-gin	324,646	Aug. 18	1702	469	32	854
Briggs, Alfred, assignor to J. T. Hackworth, A. Johnston, W. T. Major, and A. G. Harrow, Ottumwa, Iowa. Friction-drum	327,516	Oct. 6	7	2	33	4
Briggs, Arthur E., Bond Hill, Ohio. Electric annunciator	327,997	Oct. 13	636	168	33	122
Briggs, Charles H., Kankakee, Ill. Line-reel for fishing-tackle	325,813	Sept. 8	807	203	32	1170
Briggs, Charles H., Chicago, Ill. Line-reel brake	329,711	Nov. 3	385	98	33	578
Briggs, Elias, Coleman, Tex. Apparatus for irrigating land	330,556	Nov. 17	1518	406	33	809
Briggs, George D., Providence, R. I. Eyeglass-hook	330,673	Nov. 17	1658	447	33	839
Briggs, George G., et al. (See Moulton, Luther V., assignor.)						
Briggs, George S., Rockford, Ill. Plow-cutter	313,651	Mar. 10	838	218	30	943
Briggs, George S., Rockford, Ill. Wheel-hub	317,494	May 12	772	197	31	671
Briggs, George S., Rockford, Ill. Drive-chain	325,494	Sept. 1	372	91	32	1086
Briggs, George W., assignor of one-half to W. J. Hall, Chicago, Ill. Rowing appliance, &c.	323,292	July 28	2565	683	32	491
Briggs, Henry, Philadelphia, Pa. Breech-loading fire-arm	327,860	Oct. 6	459	119 120	33	81
Briggs, J. Smith, Kankakee, Ill. Car-starter	316,730	Apr. 28	2425	632	31	459
Briggs, John A., assignor to S. T. Briggs, Philadelphia, Pa. Mail-bag	313,050	Mar. 3	15	4	30	781
Briggs, John G., San José, Cal. Fruit-jar	314,099	Mar. 17	1442	378	30	1062
Briggs, John G., San José, Cal. Cooking and canning apparatus	321,480	July 7	97	26	32	19
Briggs, Joshua, Peterborough, N. H. Folding chair	322,181	Oct. 13	878	228	33	166

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Briggs, Orlando P., <i>et al.</i> (See Cross, Christopher G., assignor.)						
Briggs, Orlando P., assignor to Thorn Wire Hedge Company, Chicago, Ill. Machine for uncolling wire	315,707	Apr. 14	1007	265	31	189
Briggs, Orlando P., assignor to Thorn Wire Hedge Company, Chicago, Ill. Staple-making machine	325,814	Sept. 8	806	203	32	1171
Briggs, Orlando P., Chicago, and C. S. Locke, Joliet, assignors to D. H. Donovan, Chicago, Ill. Barbed fence-wire machine	315,470	Apr. 14	682	178 179 180	31	127
Briggs, Oscar E., Binghamton, N. Y., assignor of two-thirds to G. Hull and A. D. Wales. Bracket-seat	315,598	Apr. 14	667	228	31	161
Briggs, Susannah T. (See Briggs, John A., assignor.)						
Briggs, Thomas, Manchester, county of Lancaster, England. Compound material suitable for the manufacture of lined coffee and sugar bags and other useful purposes	315,385	Apr. 7	547		31	99
Briggs, Thomas, Darwen, county of Lancaster, England. Brake for vehicles	332,482	Dec. 15	1793	471	33	1331
Briggs, Warren R., Bridgeport, Conn. Student's drafting-case	327,226	Sept. 29	2715	706	32	1540
Briggs, William H. (See Clark and Briggs.)						
Brigham, Charles E., Boston, Mass. Journal-bearing	320,909	June 30	2665	708	31	1566
Brigham, Charles F., assignor of three-fourths to D. A. Brown, trustee, Boston, Mass. Fire-proof shutter	312,549	Feb. 17	1501	409	30	643
Brigham, Perry, assignor to himself, H. S. Chase, Boston, and W. N. Dole, Lynn, Mass. Sewing-machine attachment for sewing welts	320,043	June 16	1468	387	31	1332
Bright, Ferguson G., Greenwich, Kans. Running-gear for cultivators	322,411	July 21	1349	351	32	262
Bright, William, St. Louis, Mo. Paper-ble	311,951	Feb. 10	663	181	30	479
Brightman, Frank E., <i>et al.</i> (See Brightman, Joseph W., assignor.)						
Brightman, Joseph W., Cleveland, Ohio. Furnace-grate	318,602	May 26	2601	690	31	1023
Brightman, Joseph W., assignor of one-half to N. W. Taylor and F. E. Brightman, Cleveland, Ohio. Furnace	318,690	May 26	2358	622 630 632	31	961
Brightmore, Samuel, and A. Dixon, Philadelphia, Pa. Machine for molding plastic materials into bricks, &c.	330,291	Nov. 10	1160	308 309	33	735
Brightwell, Amazon W., Owen, Ind. Roofing-gage	320,428	June 16	2035	534	31	1432
Brice, Thomas F., Brownsville, Mo. Hinge for gates	322,282	Oct. 13	999	260	33	189
Brill, George M., Philadelphia, Pa. Car-axle box	324,220	Aug. 11	1117	302 303	32	738
Brill, George M., assignor of one-half to J. A. Brill, Philadelphia, Pa. Street-car	315,698	Apr. 14	1220	333 334	31	238
Brill, J. George, and E. H. Zitzman, Philadelphia, Pa. Car-axle box	312,181	Feb. 10	990	270	30	539
Brill, John A. (See Brill, George M., assignor.)						
Brinkerhoff, Henry W., Brooklyn, N. Y. Steam-heating apparatus	318,084	May 19	1551	416	31	824
Bringardner, Albert, <i>et al.</i> (See Birkimer, John A., assignor.)						
Bringardner, William, <i>et al.</i> (See Birkimer, John A., assignor.)						
Brinkerhoff, John J., Auburn, N. Y. Metallic fencing	334,221	Aug. 11	1118	303 304	32	738
Brinkerhoff, Milford H., Upper Sandusky, Ohio. Manufacture of rugs	322,283	Oct. 13	1000	260	33	189
Brinkerhoff, Parcel, Battle Creek, Mich. Car-coupling	329,266	Oct. 27	2374	614	33	454
Brinkmann, Augustus H., Baltimore, Md. Shirt	317,711	May 12	1045	272	31	722
Brinkmeyer, Frederick A., <i>et al.</i> (See Alapaw, Charles H., assignor.)						
Brinkmeyer, John G., <i>et al.</i> (See Alapaw, Charles H., assignor.)						
Brinly, Thomas E. C., and F. E. Heilig, Louisville, Ky. Fence-post	316,599	Apr. 28	2225	586	31	423
Brinsmead, John, London, England. Piano sounding-board	319,189	June 2	309	82	31	1105
Brinsmead, Thomas J., 18 Wigmore Street, county of Middlesex, England. Stringing pianos	319,188	June 2	308	82	31	1105
Brintall, Thomas M., Maryville, assignor to himself, G. R. Mann, and N. P. Ogden, St. Joseph, Mo. Bolt-work for safes	315,231	Apr. 7	356	87	31	64
Brintall, Thomas M., Maryville, assignor to himself, G. R. Mann, and N. P. Ogden, St. Joseph, Mo. Bolt-work for safes	315,232	Apr. 7	358	87, 88	31	64
Brintall, Thomas M., Maryville, assignor to himself and R. U. Hendrick, St. Joseph, Mo. Nail-extractor	331,678	Dec. 1	659	162	33	1114
Brinton, Caleb, <i>et al.</i> (See Thompson, George H., assignor.)						
Briody, Barnad, and G. W. McHale, assignors of one-third to W. E. Lennane, Detroit, Mich. Pedestal for railway cars	312,079	Feb. 10	837	228	30	512
Briody, Barnad, and G. W. McHale, assignors of one-third to W. E. Lennane, Detroit, Mich. Car-pedestal	326,394	Sept. 15	1571	408	32	1320
Briody, Philip, assignor of one-half to J. W. Flinn, San Francisco, Cal. Jar-fastening	321,575	July 7	929	61	32	45
Brisben, William M., Philadelphia, Pa. Hydrocarbon-injector	317,712	May 12	1047	272	31	722
Brisben, William M., Philadelphia, Pa. Cable railway	317,713	May 12	1048	273	31	722
Brisben, William M., Philadelphia, Pa. Car-brake	332,324	Dec. 15	1582	415	33	1205
Briscoe, William, and C. Gallagher, Philadelphia, Pa. Apparatus for removing snow from railway-tracks	314,790	Mar. 31	2388	631 632	30	1272
Bristol Brass and Clock Company. (See Oakley, Junius S., assignor.)						
Bristol, David N., Lansingburg, assignor to Wilbur, Du Bois & Wilbur, Troy, N. Y. Shirt-neckband protector	315,117	Apr. 7	173	42	31	32
Bristol, David N., Lansingburg, assignor to Wilbur, Du Bois & Wilbur, Troy, N. Y. Shirt-yoke shield	315,118	Apr. 7	174	42	31	32
Bristol, David N., Lansingburg, assignor to Wilbur, Krum & Wilbur, Troy, N. Y. Shirt	315,119	Apr. 7	174	42, 43	31	32
Bristol, Edmund R. (See Wescott and Bristol.)						
Bristol, George, Needsburg, Wis. Gate	320,534	June 23	2181	575	31	1467
Britt, Lucas P., Jr., New York, N. Y. Roller-skate	327,517	Oct. 6	9	2, 3	33	4
Britto, John, South Norwalk, Conn. Chemical fire-extinguishing apparatus	332,229	Dec. 15	1453	377	33	1272
Britton, Andrew L., Philadelphia, Pa. Ear-muffler	315,233	Apr. 7	359	88	31	65
Britton, George O. (See Gollehon, Britton, and Lucas.)						
Britton, James C., Hartford, Conn. Self-opening can	321,948	July 14	745	195	32	144
Britton, Joseph, New York, N. Y. Fan attachment for rocking-chairs	322,293	July 28	2011	531	32	388
Britton, Joseph W., Cleveland, Ohio. Apparatus for straightening sheet metal	312,607	Feb. 24	1573	430	30	666
Britton, Joseph W., Cleveland, Ohio. Removing swells in sheet and plate metal	312,608	Feb. 24	1574	431	30	666
Britton, Rodney G., Springfield, Vt. Match-card	311,952	Feb. 10	664	192	30	479
Broadbent, Charles L., New York, N. Y., assignor to G. F. Blake Manufacturing Company, Boston, Mass. Engine for pneumatic systems	324,076	Aug. 11	906	250 251	32	698
Broadbooks, Peter, Batavia, N. Y. Cutting-nippers	329,133	Oct. 27	2188	568	33	419
Broadhead, Joseph, Cornwall, N. Y. Blanket	312,323	Feb. 17	1188	325	30	564
Broadnax, Amos, assignor to A. C. Lewis, Brooklyn, N. Y. Drive-screw	320,329	June 16	1885	495	31	1405
Broadnax, Jean H., Manhattan, Kans. Heating attachment for stove-pipes	314,423	Mar. 24	1867	497	30	1151
Broadwell, Charles B., New Orleans, La. Car-starter	310,556	Jan. 13	510	140	30	104
Brobst, Daniel, Portland, Mich. Roof-paint composition	315,471	Apr. 14	689		31	128
Brock, Adaline, Dunsellen, N. J. Fence	321,576	July 7	230	61	32	45
Brook, George L. S., Decatur, Ind. Heating-drum	318,541	May 26	2176	583	31	948

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Brock, Levi M., Mackinaw, Ill. Sulky-plow	313,324	Feb. 17	1189	325	30	584
Brock, Levi M., Mackinaw, Ill. Wheel plow	319,059	June 2	154	42	31	1076
Brock, Louis M., and M. Wiener, Buffalo, N. Y. Storm-collar for overcoats	332,230	Dec. 15	1454	377	33	1272
Brock, Matthias, Boston, Mass., assignor to McKay & Copeland Lasting Machine Company, Portland, Me. Nailing apparatus for lasting boots or shoes	312,550	Feb. 17	1501	409	30	643
Brock, Matthias, Boston, Mass., assignor to McKay & Copeland Lasting Machine Company, Portland, Me. Lasting-machine	312,962	Feb. 24	2034	555	30	748
Brock, Matthias, Boston, Mass., assignor to McKay & Copeland Lasting Machine Company, Portland, Me. Machine for forming heads on shoe-nail strips	323,846	Aug. 4	595	167	32	635
Brock, Matthias, Boston, Mass., assignor to McKay & Copeland Lasting Machine Company, Portland, Me. Forming heads on nail-strips	323,847	Aug. 4	596	168	32	636
Brock, Matthias, Boston, Mass., assignor to McKay & Copeland Lasting Machine Company, Portland, Me. Machine for shaping comb tack-strips	329,009	Oct. 27	2010	522	33	388
Brock, Matthias, Boston, Mass., assignor to McKay & Copeland Lasting Machine Company, Portland, Me. Machine for making comb tack-strips	329,267	Oct. 27	2375	614	33	455
Brock, S. W. (See Smith, George C., assignor.)						
Brock, William E., Dunellen, N. J. Hammock-spreader	325,048	Aug. 25	2242	615	32	963
Brock, William E., Dunellen, N. J., assignor to H. T. Disbrow, Brooklyn, and H. G. Disbrow, New York, N. Y. Hammock-spreader	317,291	May 5	494	124	31	613
Brock, William E., New York, N. Y., assignor to C. Richardson, Newark, N. J. Buck-saw	323,107	July 28	2314	612	32	444
Broekner, Washington, New York, N. Y. Bale-tie	311,326	Jan. 27	1427	369	30	283
Broekner, Washington, New York, N. Y. Bale-tie	311,327	Jan. 27	1427	369	30	283
Brookway, Solomon P. (See Arnautov, John B., assignor.)						
Brogren, Aaron, Oshkosh, Wis. Circular saw mill	325,727	Sept. 8	691	172	32	1140
Brochgans, Stephan, Milwaukee, Wis. Burglar-alarm	321,679	July 7	359	95	32	67
Brokaw, Isaac, and W. Butler, Litchfield, Ill. Straw-stacker	319,553	June 9	791	209 210 211	31	1203
Brokaw, Isaac, and W. Butler, Litchfield, Ill. Straw-stacker	322,249	July 14	1134	295 296	32	216
Brokhalme, Alfred V. (See Brady and Brokhalme.)						
Brokhalme, Alfred V., New York, N. Y. Razor-guard	311,466	Feb. 3	8	3	30	350
Brokhalme, Alfred V., New York, N. Y. Guard for razor-blades	315,708	Apr. 14	1010	266 615 616 617	31	189
Brolaski, Joseph B., St. Louis, Mo. Knockdown furniture	325,049	Aug. 25	2243	618 619 620	32	963
Brolin, Peter, assignor of one-half to M. C. Shelter, West Unity, Ohio. Ditching-machine	333,441	Dec. 29	3139	621 622	33	1584
Bromley, William H., and P. J. Gately, Brooklyn, N. Y. Cracker-machine	323,848	Aug. 4	597	168	32	636
Bromley, William H., and P. J. Gately, Brooklyn, N. Y. Adjustable scraper for cracker-machine feed-rollers	324,529	Aug. 18	1533	423	32	822
Brommersberger, George, et al. (See Weber, Peter F., assignor.)						
Bronner, Manly D., Ilion, N. Y. Harrow	320,455	June 23	2081	547	31	1449
Bronson, Ira, Lockport, N. Y. Bob-sleigh	327,927	Sept. 29	2716	707	32	1540
Bronson, James M., Chicago, Ill. Removable book-cover. (Reissue)	10,615	June 23	2654	704 705	31	1557
Bronson, John G., Chicago, Ill. Window-screen and ventilator	324,077	Aug. 11	908	251	32	698
Bronson, John G., Chicago, Ill. Window-ventilator	328,182	Oct. 13	879	228 229	33	166
Brook, Edward, Wigan, county of Lancaster, England. Apparatus for making gas	315,709	Apr. 14	1012	266 267	31	190
Brookbank, James O., Driftwood, Pa. Water-cooler	316,231	Apr. 21	1725	453	31	326
Brooke, Isaac, et al. (See Caley, Edward L., assignor.)						
Brooke, Isaac, Pottstown, Pa. Inkstand	321,125	June 30	3026	802	31	1631
Brooke, Isaac, Pottstown, Pa. Nut-lock	330,674	Nov. 17	1659	447	33	839
Brooke, Isaac, Pottstown, assignor to himself, C. S. Francis, Spring City, and S. B. Shalkop, Royer's Ford, Pa. Window-grating	332,186	Dec. 8	1389	359	33	1254
Brookfield, William. (See O'Brien, John, assignor.)						
Brookhart, Levi T. and W. H. Lima, Ohio; said W. H. Brookhart assignor to said Levi T. Brookhart. Metallic fence	326,535	Sept. 15	1745	455 456	32	1353
Brookhart, William H. (See Brookhart, Levi T. and W. H.)						
Brooklyn Electric Construction Company. (See Moffatt, Richard R., assignor.)						
Brooks, Ambrose A. and A. J. Macomb, Tex. Pitman-rod	317,919	May 12	1325	356	31	775
Brooks, Andrew J. (See Brooks, Ambrose A. and A. J.)						
Brooks, Byron A., Brooklyn, N. Y. Type-writing machine	323,495	Aug. 4	143	42, 43	32	548
Brooks & Co., E. J. (See Brooks, Edward J., assignor.)						
Brooks, Daniel V. (See Harper and Brooks.)						
Brooks, David, Philadelphia, Pa. Underground electrical conductor	325,495	Sept. 1	373	91	32	1086
Brooks, David, Jr., Philadelphia, Pa. Conduit for electric wires	314,791	Mar. 31	2390	632	30	1272
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y.	312,963	Feb. 24	2036	556	30	748
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y.	314,100	Mar. 17	1443	378	30	1062
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y.	314,164	Mar. 17	1527	400	30	1077
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y.	314,994	Apr. 7	10	3	31	4
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y.	319,387	June 2	551	150	31	1153
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y.	320,904	June 23	2652	704	31	1557
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y.	321,275	June 30	3137	836	31	1658
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y.	323,633	Aug. 4	331	95	32	584
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y.	323,849	Aug. 4	598	168	32	636
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y.	324,647	Aug. 18	1703	469	32	854
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y.	326,199	Sept. 15	1307	339	32	1271
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y.	326,897	Sept. 22	2281	506	32	1454
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y.	328,106	Oct. 13	783	204	33	148

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Brooks, Edward J., Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Hair-crimper	332,483	Dec. 15	1794	472	33	1332
Brooks, Eldridge H., et al. (See Weaver, Isaac D., assignor.)						
Brooks, Franklin W., New York, N. Y. Street-car	325,008	Sept. 8	915	231	32	1192
Brooks, Frederick W., Oak Grove, Wis. Railway-rail	322,412	July 21	1350	352	32	202
Brooks, Frederick W., Cleveland, Ohio. Reclining-chair	333,052	Dec. 22	2605	682	33	1486
Brooks, Frederick W., assignor to F. H. Morris, Cleveland, Ohio. Reclining-chair	329,284	Nov. 10	631	160	33	630
Brooks, George, and S. B. Pike, Detroit, Mich. Grain-separator	324,434	Aug. 18	1429	391	32	804
Brooks, George, assignor of two-thirds to H. N. Brevoort and R. J. Marsh, Detroit, Mich. Excelsior-machine	326,395	Sept. 15	1572	408	32	1320
Brooks, Harry. (See Brooks, Ball, and Brooks.)						
Brooks, Heman P., Brooklyn, N. Y., assignor to himself and J. L. Carson, Torrington, Conn. Bottle-stopper	319,554	June 9	793	210	31	1203
Brooks, Henry. (See Fefel, Henry H., assignor.)						
Brooks, Henry, Brooklyn, Ohio. Horse-collar	327,377	Sept. 29	2919	761	32	1574
Brooks, Henry G., Battle Creek, Mich. Low-water alarm	310,786	Jan. 13	801	217	30	157
Brooks, Henry J. H., assignor to himself and C. D. M. Peele, Bloomfield, N. J. Valve-cock	315,234	Apr. 7	360	88	31	65
Brooks, Henry O., Lowell, Mass. Odometer	326,396	Sept. 15	1573	408	32	1330
Brooks, James F. (See Brooks, Ball, and Brooks.)						
Brooks, James M. (See Brooks, Rhodom M. and J. M.)						
Brooks, James W., trustee. (See Allen, Edward B., assignor.)						
Brooks, James W., trustee. (See Gilden, Charles W., assignor.)						
Brooks, James W., trustee. (See Goddu, Louis, assignor.)						
Brooks, James W., trustee. (See Leavitt, John S., assignor.)						
Brooks, James W., trustee. (See Rose, John G., assignor.)						
Brooks, John, Plainfield, N. J. Bed for zincographic presses	312,325	Feb. 17	1190	326	30	585
Brooks, John, Plainfield, N. J. Printing-machine	322,001	July 14	932	241	32	178
Brooks, John, Plainfield, N. J. Printing-machine	322,091	July 14	933	241	32	178
Brooks, John, Plainfield, N. J. Apparatus for drying paper matrices	330,091	Nov. 10	911	226	33	685
Brooks, John C. and J. F. F. W. Ball, Paterson, N. J., and H. Brooks, Fall River, Mass. Take-up mechanism for looms	332,782	Dec. 22	2233	588	33	1417
Brooks, John R., West Springfield, Mass. Crutch	320,621	June 23	2299	607	31	1469
Brooks, John S., assignor to F. A. Estabrook, Brooklyn, and W. T. Mersereau & Co., New York, N. Y. Sheet-metal stove-pipe	330,770	Nov. 17	1728	451	33	892
Brooks, Morgan, and H. R. Mason, Boston, Mass. Telephone-circuit	323,269	July 29	2531	672	32	495
Brooks, Mott B., North Hammond, N. Y. Double-acting submerged force-pump	317,714	May 19	1050	273	31	722
Brooks, Rhodom M. and J. M., Jenkinsville, Ga. Seed-planter and fertilizer-distributor	325,496	Sept. 1	374	91, 92	32	1037
Brooks, Rufus M., Greeley, Kans. Pump	316,004	Apr. 21	1425	370	31	271
Brooks, Rufus M., Greeley, Kans. Chain-pump bucket	316,005	Apr. 21	1426	371	31	271
Brooks, Samuel T., assignor of one-half to M. A. Bates, San Francisco, Cal. Hose-patch	326,012	Sept. 8	1050	267	32	1216
Brooks & Son, George. (See Bardale, Henry, assignor.)						
Brooks, Theodore L., Port Byron, N. Y. Cultivator	332,044	Dec. 8	1185	310	33	1219
Brooks, William H. (See Cochran, John C., assignor.)						
Broomhall, George L., Paterson, N. J. Device for securing electric wires to poles	310,931	Jan. 20	993	269	30	197
Broomhall, George L., Paterson, N. J. Insulator	319,447	June 9	647	175	31	1178
Brophy, Dennis P., Nokomis, Ill. Mail-bag	331,472	Dec. 1	311	83	33	1053
Brophy, Dennis P., Nokomis, Ill. Bag-lock	331,473	Dec. 1	312	84	33	1053
Brophy, Dennis P., Nokomis, Ill. Mail-bag lock	331,474	Dec. 1	313	84	33	1054
Brosnan, Cornelius J., assignor of two-thirds to W. E. Wright and H. A. Gibbs, Springfield, Mass. Machine for attaching buttons	327,917	Oct. 6	532	130	33	95
Brosnan, Cornelius J., assignor of two-thirds to W. E. Wright and H. A. Gibbs, Springfield, Mass. Tack-feeding device	329,268	Oct. 27	2377	615	33	455
Brotherhood, Charles. (See Leipzig and Brotherhood.)						
Brotherhood, James, Stratford, Ontario, Canada. Exercising device for musicians	327,918	Oct. 6	534	139	33	96
Brotherhood, Peter, Lambeth, county of Surrey, England. Piston	330,639	June 23	2559	677	31	1540
Brotherhood, Peter, Lambeth, county of Surrey, England. Valve-gear	333,270	July 28	2533	672	32	485
Brotherhood, Peter, Lambeth, county of Surrey, England. Compound engine	332,484	Dec. 15	1796	472	33	1332
Brothers, Alphonso H., assignor to Dunham Hosiery Company, Naugatuck, Conn. Needle-presser for knitting-machines	325,815	Sept. 8	814	204	32	1170
Brothwell, John G., assignor to Turner & Seymour Manufacturing Company, Torrington, Conn. Clasp	324,254	Aug. 11	1211	330	32	756
Brott, John R., East Medway, and M. L. Andrews, Melrose, Mass. Bridle-bit	312,182	Feb. 10	992	270	30	539
Brotz, Robert, assignor to Caterson & Brotz Company, Philadelphia, Pa. Paper box	329,134	Oct. 27	2189	568	33	419
Brougham, Stephen M., Brooklyn, assignor to Standard Pencil Company, New York County, N. Y. Drop-movement for pocket utensils	331,941	Dec. 8	1034	266	33	1193
Broughton, Frederick S. D., assignor of one-half to S. P. Wolverton, Sunbury, Pa. Nut-lock	324,295	Aug. 11	1212	330	32	756
Brouner, Richard R., Washington, D. C. Curtain-fixture	327,378	Sept. 29	2920	761	32	1574
Brower, Bloomfield, assignor of one-half to E. Greey, New York, N. Y. Fan-holder	315,899	Apr. 14	1282	334	31	239
Brower, Bloomfield, New York, N. Y. Desk	323,271	July 28	2534	673	32	485
Brower, Henry J., assignor to T. H. McAllister, Brooklyn, N. Y. Dissolving-key for oxygen-hydrogen lights	330,092	Nov. 10	912	237	33	685
Brown, Aaron L., Chicago, Ill. Temporary binder	320,622	June 23	2299	607	31	1469
Brown, Addison P., New York, N. Y. Toy	329,269	Oct. 27	2378	615	33	455
Brown, Addison P., and M. D. Stern, New York, N. Y.; said Brown assignor to said Stern. Ticket-reel	331,863	Dec. 8	916	237	33	1170
Brown, Albert, Mendocino, Cal. Combined paper cutter and stamp	327,998	Oct. 13	637	168	33	122
Brown, Alexander E., Cleveland, Ohio. Bucket-hook for hoisting and conveying apparatus	311,285	Jan. 27	1517	414	30	299
Brown, Alexander E., Cleveland, Ohio. Tubular tramway	313,285	Mar. 3	358	89	30	841
Brown, Alexander E., Cleveland, Ohio. Automatic dump-bucket for hoisting and conveying machines	314,101	Mar. 17	1445	378	30	1063
Brown, Alexander E., Cleveland, Ohio. Apparatus for discharging contents of vessels and cars, &c.	314,424	Mar. 24	1669	496	30	1152
Brown, Alexander E., Cleveland, Ohio. Caster-wheel for hoisting-buckets	315,223	Apr. 7	360	88	31	65
Brown, Alexander E., Cleveland, Ohio. Hoisting and conveying machine	315,900	Apr. 14	1283	334	31	239
Brown, Alfred. (See Van Loven, Thomas F., assignor.)						
Brown, Alfred, assignor of one-half to J. R. Dow, Ottawa, Ontario, Canada. Suspenders	312,690	Feb. 10	838	228	30	513
Brown, Alfred, Hellertown, and W. R. Clark, Bethlehem, Pa. Furnace-tuyere	326,284	Oct. 13	1001	260	33	190

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Brown, Alpheus R., Jr., Boston, Mass. Lock-hinge	325,909	Sept. 8	916	231	32	1191
Brown, Alson L., et al. (See Larkin, John C., assignor.)						
Brown, Archibald S., et al. (See Hunter, David, assignor.)						
Brown, Archibald S., et al. (See Spier, Alexander D., assignor.)						
Brown, Artemas M., Ottawa, Ohio. Hub	330,771	Nov. 17	1799	489	33	862
Brown, Augustus P., Brooklyn, N. Y. Rolling-mill	316,232	Apr. 21	1796	433	31	326
Brown & Brothers. (See Kala, Adrian, assignor.)						
Brown, C. Cortland. (See Le Clair, George, assignor.)						
Brown, Caleb E., Jackson, Mich. Bustle	320,270	Oct. 27	2379	615	33	455
Brown, Caleb E., Jackson, Mich. Hoop-skirt	329,271	Oct. 27	2320	615	33	455
Brown Carriage Company. (See Brown, John N., assignor.)						
Brown, Charles E., assignor of one-third to H. B. Walsley, Ean Claire, Wis. Paint	319,951	June 16	1347		31	1310
Brown, Charles E., assignor of one-half to S. Southall, Rome, N. Y. Alarm for steam-boilers		Aug. 25	2429	667	33	997
				668		
Brown, Charles M., Rockford, Ill. Power-hammer	327,999	Oct. 13	638	169	33	123
Brown, Charles T., assignor, by means assignments, to F. L. Brown, Chicago, Ill. Counter for printing-presses, &c	323,382	July 28	2704	720	32	515
Brown, Charles T., assignor to F. L. Brown, Chicago, Ill. Counter for printing-presses, &c	324,002	Aug. 11	801	222	32	680
				223		
Brown, Charles T., assignor to F. L. Brown, Chicago, Ill. Mechanical movement	324,007	Aug. 11	803	223	32	681
Brown & Company, George W. (See Tunnichoff, John C., assignor.)						
Brown & Co., S. N. (See Brown, Thomas, assignor.)						
Brown, D. Arthur, Concord, N. H. Carriage-axle	325,050	Aug. 25	2947	617	32	963
Brown, D. Austin, trustee. (See Brigham, Charles F., assignor.)						
Brown, D. Austin, Boston, Mass. Plastic-cement mixture for non-conducting coverings for boilers, &c	311,287	Jan. 27	1520		30	300
Brown, Daniel, Johnston, R. I. Cartridge-reloading implement	329,135	Oct. 27	2190	568	33	419
Brown, Daniel V., assignor to S. L. Fox, Philadelphia, Pa. Spectacles	316,773	Apr. 28	2624	684	31	495
Brown, Daniel W., Woodbridge, N. J. Combined cuff and button holder	311,296	Jan. 27	1519	414	30	300
Brown, Daniel W., Woodbridge, N. J. Cuff-holder	321,550	Aug. 4	253	68	32	565
Brown, David, and J. D. Bradley, assignors to R. O. Dorman, New Haven, Conn. Buck-board-wagon	333,053	Dec. 22	2606	682	33	1424
Brown, David S., Jenkins, Mo. Device for adjusting boards, &c	316,941	May 5	14	4	31	525
Brown, Delosa S., and I. Sipe, Peoria, Ill. Combined beer and spirit still	320,535	June 23	2181	576	31	1467
Brown, Edward F., New York, N. Y. Brushing and finishing silk hats	321,620	July 7	361	96	32	68
Brown, Edward H., New York, N. Y. Door-closer	310,179	Jan. 6	96	7	30	7
Brown, Edward H., New York, N. Y. Tintograph	324,438	Aug. 18	1704	470	32	855
Brown, Edwin H., Brooklyn, N. Y. Suspension device for lamps, &c	321,293	July 28	2566	683	32	491
Brown, Edwin H., Brooklyn, N. Y. Suspension device for lamps	323,294	July 28	2568	684	32	491
Brown, Edwin L., Chicago, Ill. Ornamenting glass	315,472	Apr. 14	689	180	31	128
Brown, Ernest M., New Boston, Ill. Car-coupling	321,276	June 30	3139	838	31	1652
Brown, Fayette, Cleveland, Ohio. Hoisting and top-filling apparatus for blast-furnaces	313,749	Mar. 17	1111	288	30	1000
Brown, Fayette, Cleveland, Ohio. Blast-furnace	316,223	Apr. 21	1728	454	31	327
Brown, Fayette, Cleveland, Ohio. Blast-furnace	323,634	Aug. 4	333	95	32	584
Brown, Flora L. (See Brown, Charles T., assignor.)						
Brown Folding Machine Company. (See Brown, Richard T., assignor.)						
Brown Folding Machine Company. (See Downing, Wellington, assignor.)						
Brown Folding Machine Company. (See Hirt, Charles F. and J. L., assignors.)						
Brown, Francis M., Greenfield, Iowa. Hen's nest	311,467	Feb. 3	10	3	30	350
Brown, Frank, et al. (See Dunbar, Junius H., assignor.)						
Brown, Frank E., Webster City, Iowa. Shutter-worker	333,442	Dec. 29	3141	821	33	1584
Brown, Frank M., Boston, assignor to N. S. White, Canton, Mass. Holder for incandescent electric lamps	324,530	Aug. 18	1533	423	32	822
Brown, Fred. H., Fort Worth, Tex. Magneto-electric telegraphy	324,746	Aug. 18	1823	504	32	878
Brown, Fred. H., assignor of one-half to W. E. Kaye, Fort Worth, Tex. Rocking-chair	328,000	Oct. 13	642	169	33	123
Brown, Frederick E., et al. (See Seymour, William S., assignor.)						
Brown, Frederick H., Buffalo, N. Y. Machine for rolling nut-blanks	333,106	Dec. 29	2689	705	33	1505
Brown, Frederick L., Scranton, Pa. Overflow-fixture trap	325,153	Aug. 25	2373	653	32	987
Brown, Gavin. (See Brehmer and Brown.)						
Brown, Gavin, Glasgow, Scotland, and A. Brehmer, Leipzig, Germany. Machine for binding books	312,609	Feb. 24	1576	431	30	666
Brown, George H. (See Repp and Brown.)						
Brown, George S., Charleston, S. C. Refrigerator	310,371	Jan. 6	281	77	30	54
Brown, George S., Providence, R. I. Insole for boots and shoes	321,577	July 7	231	61	32	45
Brown, George T., Belton, S. C. Combined envelope-opener and paper-knife	330,357	Nov. 17	1519	406	33	809
Brown, George W., et al. (See Wiggins, John E., assignor.)						
Brown, George W., New York, N. Y. Drum-cover	312,804	Feb. 24	1832	502	30	712
Brown, George W., Mansfield, Ohio. Steam-gage	318,691	May 26	2360	630	31	982
Brown, Gilbert F. (See Haulenbeck and Brown.)						
Brown, Gilman W., West Newbury, Mass. Fire-kindler	316,327	Apr. 21	1851	489	31	348
Brown, Gilman W., West Newbury, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Steam-engine pressure-recorder and speed-indicator	316,111	Apr. 21	1574	409	31	298
Brown, Harold P., Chicago, Ill. Circuit for arc and incandescent electric lights	325,389	Sept. 1	230	58	32	1058
Brown, Harold P., Chicago, Ill. Arc and incandescent lighting system	325,390	Sept. 1	233	59	32	1059
Brown, Harold P., Chicago, Ill. System for operating incandescent lamps	325,391	Sept. 1	235	50, 60	32	1059
Brown, Harold P., Chicago, Ill. Electro-magnet	330,463	Nov. 17	1399	372	33	787
Brown, Harold P., Chicago, Ill. Incandescent electric lighting	330,464	Nov. 17	1400	372	33	787
				373		
Brown, Harold P., Chicago, Ill. System of electric lighting	330,465	Nov. 17	1401	373	33	787
Brown, Harold P., Chicago, Ill. Device for making and breaking electric circuits	330,466	Nov. 17	1407	374	33	788
Brown, Henry, and A. Bushnell, Lamar, Mo. Churn	332,485	Dec. 15	1797	472	33	1332
Brown, Henry H. (See Hill and Brown.)						
Brown, Henry M., Seattle, Wash. Ter. Dirt scraper and carrier	332,872	Dec. 22	2358	623	33	1439
Brown, Hiram L., Vletula, assignor of one-half to G. N. Thomas and E. Albright, Goshen, Ind. Piston	311,806	Feb. 3	445	121	30	432
Brown, Isaac F., Hyde Park, Mass. Hat-forming machine	323,023	July 28	2197	582	32	422
Brown, Israel F. (See Smith, Peter E., assignor.)						
Brown, Israel F., New London, Conn. Cotton-gin	317,921	May 12	1387	356	31	776
				357		
Brown, Israel F., New London, Conn. Roller-skate	321,931	July 7	715	186	32	130
Brown, J. Burns, New York, N. Y. Music-desk for pianos	326,542	Sept. 22	1754	458	32	1362
Brown, James, and M. G. Alcorn, Los Angeles, Cal. Fruit-picker	312,326	Feb. 17	1191	396	30	585
Brown, James B., Hannibal, Mo. Pump-guard	314,913	Mar. 31	2553	674	30	1301
Brown, James B., Hannibal, Mo. Device for replacing pump-chains	314,913	Mar. 31	2553	675	30	1301

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Brown, James B., assignor to New York Plow Company, New York, N. Y. Plow.....	314,425	Mar. 24	1871	498	30	1132
Brown, James B., New York, J. W. Douglass, Brooklyn, and J. Pentreath, Yonkers, N. Y. Ensilage and fodder cutter.....	332,698	Dec. 22	2196	561	33	1396
Brown, James S., Eureka, Cal. Flood and sluice gate.....	316,733	Apr. 28	2432	633	31	460
Brown, James W., et al. (See Hamre, Eben J., assignor.)						
Brown, Jesse H., Syracuse, N. Y. Reamer.....	317,715	May 12	1051	974	31	723
Brown, John, assignor to J. W. Tufts, Medford, Mass. Sirup-fountain.....	317,618	May 12	951	939	31	700
Brown, John A., Bloomfield, N. J., assignor of two-thirds to W. F. Dordfinger, New York, N. Y. Bottling-machine.....	322,576	July 21	1581	416 417	32	302
Brown, John F. (See Grummann, Albert U., assignor.)						
Brown, John F., Brooklyn, N. Y. Extension-chandelier.....	319,061	June 2	157	42	31	1076
Brown, John F., Providence, R. I., assignor of one-half to Fitz Gerald & Co., Newark, N. J. Shipping-can.....	326,940	Sept. 29	2342	613	32	1473
Brown, John H., Chicago, Ill. Device for unloading grain from vehicles.....	311,468	Feb. 3	10	3	30	350
Brown, John H., Oskaloosa, Iowa. Bed-bottom.....	322,577	July 21	1562	417	32	303
Brown, John H., Bay View, Wis. Roll for reducing old rails.....	323,285	Dec. 29	2065	799	33	1573
Brown, John K., Worcester, Mass. Boot or shoe stretcher.....	328,642	Oct. 20	1505	392	33	268
Brown, John M., Philadelphia, Pa., assignor to Baker, Pratt & Co., New York, N. Y. Device for securing furniture-standards to the floor.....	316,328	Apr. 21	1852	490	31	348
Brown, John N., assignor to Brown Carriage Company, New London, Conn. Vehicle-gear.....	318,963	May 26	2603	690	31	1024
Brown, John T., Ottawa, Ill. Horse hay-fork.....	319,671	June 9	947	250	31	1233
Brown, Joseph C., Burlington, Vt. Apparatus for mixing, measuring, and packaging powdered material.....	319,672	June 9	947	251 252	31	1233
Brown, Lauriston S., Oriskany Falls, N. Y. Field and lawn mower.....	318,692	May 26	2361	630	31	982
Brown, Louis, Rye, N. Y. Mixed paint.....	328,643	Oct. 20	1505	393	33	268
Brown, Louis, Rye, N. Y. Powder for roofing and other purposes.....	328,644	Oct. 20	1506	394	33	268
Brown, Marcellus P., Fayetteville, Mo. Corn-planter.....	320,044	June 16	1469	387 388	31	1338
Brown, Mathew, assignor of one-half to A. M. Barber, Bridgeport, Conn. Saw.....	324,357	Aug. 18	1300	353	32	781
Brown, Maurice T., Tyler, Tex. Cotton-compressor.....	325,314	Sept. 1	113	32, 33	32	1036
Brown, Milton. (See Bock, James H., assignor.)						
Brown, Moses B., Waltham, Mass. Broom-holder.....	321,883	July 7	654	170	32	119
Brown, Moses B., Waltham, Mass. Nail-machine.....	322,413	July 21	1351	352	32	263
Brown, Nelson H. (See Van Hoesen and Brown.) (Reissue.)						
Brown, Nicholas H., Mobile, Ala. Locking-bolts.....	326,101	Sept. 15	1169	299	32	1245
Brown, Oliver H. P., Clarksville, Ark. Peach-pitter.....	317,966	May 19	1401	376	31	797
Brown, Orlando. (See Roraback, John, assignor.)						
Brown, Peter C., and T. P. Bragg, Ennis, Tex. Cultivator.....	330,467	Nov. 17	1409	374	33	789
Brown, Philip C., Brooklyn, N. Y. Boot or shoe.....	318,949	June 2	16	5	31	1051
Brown, Richard, Youngstown, assignor to Cleveland, Brown & Co., Cleveland, Ohio. Dressing rolls.....	326,263	Sept. 15	1401	365	32	1287
Brown, Richard, R. W. Barnes, and J. Bell, Liverpool, county of Lancaster, England. Preparing pictures and photographs for photo-engraving.....	311,057	Jan. 20	1175	.....	30	232
Brown, Richard T., assignor to Brown Folding Machine Company, Erie, Pa. Sheet-conveyor for folding machines.....	322,344	July 14	1254	328	32	238
Brown, Richard T., assignor, by means assignments, to Brown Folding Machine Company, (limited.) Erie, Pa. Carrier attachment for folding machines.....	331,762	Dec. 8	779	197	33	1145
Brown, Robert, Springfield, Ohio. Grain-binder.....	314,102	Mar. 17	1448	379	30	1063
Brown, Robert, Springfield, Ohio. Cutter and cutter-guard for harvesters and mowers.....	314,103	Mar. 17	1449	379	30	1063
Brown, Robert, Springfield, Ohio. Harvesting-machine.....	315,901	Apr. 14	1286	335	31	239
Brown, Robert, Springfield, Ohio. Grain-binder.....	317,292	May 5	495	124 125	31	614
Brown, Robert B., St. Louis, Mo. Wire mat for oil-presses.....	316,874	Apr. 28	2025	624	31	495
Brown, Robert B., Washington, D. C. Tennis-court marker.....	324,649	Aug. 18	1707	470	32	855
Brown, Robert L., New York, N. Y. Shutter-worker.....	310,372	Jan. 6	222	78	30	54
Brown, Robert P., Philadelphia, Pa. Envelope.....	320,215	June 16	1700	451	31	1373
Brown, Robert P., and E. L. Bailey, Philadelphia, Pa. Paper box.....	327,379	Sept. 29	2921	792	32	1574
Brown, Sampson H., Leesville, Tex. Indicator for merchandise.....	315,236	Apr. 7	362	89	31	65
Brown, Sampson H., Leesville, Tex. Marking device.....	325,154	Aug. 25	2374	654	32	967
Brown, Samuel P., Bridgeport, Conn. Tension device for sewing machines.....	319,448	June 9	648	175	31	1178
Brown, Seth A., Buffalo, N. Y. Extensible service-box for the stop-cocks of gas, &c.....	317,920	May 12	1326	355	31	775
Brown & Sharpe Manufacturing Company. (See Carleton, Cyrus, assignor.)						
Brown & Sharpe Manufacturing Company. (See Parks, Edward H., assignor.)						
Brown & Sharpe Manufacturing Company. (See Smith, George H., assignor.)						
Brown & Sharpe Manufacturing Company. (See Spaulding, Frank, assignor.)						
Brown & Sharpe Manufacturing Company. (See Worsley, Samuel L., assignor.)						
Brown, Simon H., and L. Sibley, Ramapo, N. Y. Centering and holding device for tires.....	325,315	Sept. 1	114	33	32	1037
Brown, Theodore H., assignor of one-half to H. C. Forsyth, Viroqua, Wis. Plastering, cal-cimining, and painting machine.....	315,902	Apr. 14	1288	336	31	240
Brown, Thomas, Sheffield, county of York, England. Animal-shears.....	315,237	Apr. 7	363	89	31	65
Brown, Thomas, assignor to S. M. Brown & Co., Dayton, Ohio. Hub-band.....	321,792	July 7	519	137 138	32	97
Brown, Thomas H., Milwaukee, Wis. Two-wheeled vehicle.....	319,060	June 2	156	42	31	1076
Brown, Thomas R. (See Jones, Calvin M., assignor.)						
Brown, Thomas R., assignor of two-thirds to W. C. Meeker, Jersey City, N. J., and A. J. Manning, New York, N. Y. Railway-switch stand.....	318,948	June 2	14	4	31	1051
Brown, Thomas S., Greenfield, assignor of one-half to W. D. Lobin and D. F. Henry, Detroit, Mich. Fishing-net.....	325,652	Sept. 8	581	147	32	1130
Brown, Thomas W. (See McKenney and Brown.)						
Brown, Thomas W. (See Melville and Brown.)						
Brown, Thomas W., Belmont, assignor to H. W. Mason, Worcester, Mass. Egg-beater.....	322,250	July 14	1136	296	32	216
Brown, Vincent, Hazzard, Mo. Fence-post.....	320,330	June 16	1885	495	31	1405
Brown, Warren G., et al. (See Larkin, John C., assignor.)						
Brown, Wilbert F., Richmond, Mich. Device for clamping tire-bolts.....	323,392	Aug. 4	12	4	32	525
Brown, Willard E., Philadelphia, Pa. Plow.....	310,249	Jan. 6	110	31	30	23
Brown, William. (See Smith, Moses H., assignor.)						
Brown, William, Duncannon, Pa. Sash-fastener.....	311,288	Jan. 27	1521	414	30	300
Brown, William A., assignor of one-half to J. A. Hicks and J. S. Wyche, Terrell, Tex. Motive power.....	332,231	Dec. 15	1454	378	33	1272
Brown, William A. M., and J. M. Porter, said Brown assignor to F. M. King, Leeds, county of York, England. Apparatus for measuring the flow of liquids.....	314,914	Mar. 31	2554	675	30	1301
Brown, William D., Le Roy, Ill. Coffee-strainer.....	323,780	Aug. 4	517	146	32	620
Brown, William E., Elbridge, N. Y. Well-drilling machine.....	310,875	Jan. 20	914	249	30	184

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Brown, William H. (See Miller and Brown.)						
Brown, William H., Indianapolis, Ind. Hot-water radiator	310,981	Jan. 20	1069	291	30	211
Brown, William H., Dunedin, Fla. Plant-protector	310,982	Jan. 20	1073	292	30	212
Brown, William H., New York, N. Y. Making seamless tubes	316,600	Apr. 28	2226	586	31	423
Brown, William J., Webster City, Iowa. Car-coupling	325,155	Aug. 25	2375	654	32	967
Brown, William J. H., et al. (See Long, William S., assignor.)						
Brown, William L., Fennimore, Wis. Iron sled	312,964	Feb. 24	2038	556	30	749
Brown, William P., Zanesville, Ohio. Wheel-cultivator	312,425	Feb. 17	1322	365	30	610
Brown, William P., Zanesville, Ohio. Wheel-cultivator	326,200	Sept. 15	1309	339 340	32	1271
Brown, William P., Zanesville, Ohio. Roller-skate	330,093	Nov. 10	913	237	33	685
Brown, William P., Zanesville, Ohio. Tongue-chain for wagons	333,886	Dec. 29	3066	800	33	1572
Brown, William S., Pine Hill, Ky. Swing	333,054	Dec. 22	2606	683	33	1484
Brown, William T., et al. (See Mingle, George W., assignor.)						
Brown, William T., Hastings, Mich. Base-ball bat	310,248	Jan. 6	109	31	30	23
Brown, Willis L., Lake Geneva, Wis. Pot and kettle cover	311,289	Jan. 27	1521	414	30	300
Browne, Arthur W. (See Johnston and Browne.)						
Browne, Arthur W., Westfield, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Flexible shaft and coupling	326,941	Sept. 29	2343	613	32	1473
Browne, Arthur W., Westfield, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental-engine hand-piece coupling	326,942	Sept. 29	2346	614	32	1473
Browne, George W., Brooklyn, N. Y. Safety gas-burner	312,805	Feb. 24	1833	503	30	712
Browne, John X., Brooklyn, N. Y. Apparatus for making stereotype-matrices	332,873	Dec. 22	2359	621	33	1439
Browne, William F., Jersey City, N. J. Apparatus for generating gas	328,634	Oct. 20	1737	452 453	33	333
Browne, William F., New York, N. Y. Treating heating and illuminating gases	331,225	Nov. 24	2400	649 650	33	982
Browne, William H., Brooklyn, N. Y. Grinding-mill	326,264	Sept. 15	1402	365	32	1267
Browne, William H., Brooklyn, N. Y. Grate	331,031	Nov. 24	2122	575	33	932
Browne, William J., Fort Madison, Iowa. Wheel gang-plow	325,783	Sept. 8	765	191 192	32	1163
Browne, William T., Stockton, Cal. Car-truck	332,378	Dec. 15	1600	436	33	1308
Brownell, A. M., et al. (See Hatch, Fred A., assignor.)						
Brownell, Frank, et al. (See Spear and Wight, assignors.)						
Brownell, George L., Worcester, Mass. Apparatus for operating warehouse-doors	314,219	Mar. 24	1596	422	30	1100
Brownell, Harrie C., et al. (See Spear and Wight, assignors.)						
Browning, Fredrick T. (See Bulkeley and Browning, assignors.)						
Browning, John M. and M. S., Ogden, Utah Ter. Magazine-gun	312,183	Feb. 10	993	271	30	536
Browning, John M. and M. S., Ogden City, Utah Ter., assignors to Winchester Repeating Arms Company, New Haven, Conn. Magazine-gun	324,296	Aug. 11	1213	330 331	32	756
Browning, John M. and M. S., Ogden City, Utah Ter., assignors to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	324,297	Aug. 11	1216	331	32	757
Browning, Matthew S. (See Browning, John M. and M. S.)						
Browning, Ross C. (See Bulkeley and Browning.)						
Brownlee, John, Evansville, Ind. Map, chart, or picture suspender	326,013	Sept. 8	1051	267	32	1216
Brownson, Chancy E., Lansing, Mich. Step-ladder	322,414	July 21	1353	332	32	263
Brownson, Ralph, assignor of one-half to P. R. L. Hardenbergh, St. Paul, Minn. Horse-collar	312,081	Feb. 10	839	228	30	513
Brownson, Ralph, assignor of one-half to P. R. L. Hardenbergh, St. Paul, Minn. Horse-collar and sweat-pad clamp	312,082	Feb. 10	840	229	30	513
Brownson, Ralph, assignor of one-half to P. R. L. Hardenbergh, St. Paul, Minn. Fly-net for horses	321,884	July 7	655	170	32	119
Brownson, Ralph, assignor of one-half to P. R. L. Hardenbergh, St. Paul, Minn. Sweat-pad fastener for harness	330,772	Nov. 17	1790	482	33	862
Brownson, Ralph, assignor of one-half to P. R. L. Hardenbergh, St. Paul, Minn. Horse-collar housing	331,763	Dec. 8	770	197	33	1145
Broxton, John F. (See Burgess and Broxton.)						
Brubaker, Martin K., Mount Joy, Pa. Tobacco-dropper	316,601	Apr. 28	2227	526	31	423
Bruce, Alonzo E., Springfield, Mass. Hand thrashing-machine	315,710	Apr. 14	1013	267	31	190
Bruce, H. C., et al. (See Harker, Henry K., assignor.)						
Bruce, James L., and T. E. Sikes, Chaucer, Ga. Seed-planter	326,712	Sept. 22	1029	522	32	1404
Bruce, John M., Pittsburg, Pa. Combined water cooler and filter	315,190	Apr. 7	176	43	31	32
Bruce, O. M. (See Blackmore, John E., assignor.)						
Bruce, W. P., et al. (See Harker, Henry K., assignor.)						
Bruchmann, Gustav R., Milwaukee, Wis. Still	325,728	Sept. 8	692	173	32	1149
Brückner, John and J. J., Philadelphia, Pa. Fire-escape	329,359	Oct. 27	2519	649	33	479
Brückner, John J. (See Brückner, John, and J. J.)						
Brückner, William, San Francisco, Cal. Ore-roasting furnace	321,003	June 30	2791	741 742	31	1588
Bruderer, John, Philadelphia, Pa., and O. C. Burdick, assignors to Plumb, Burdick & Barnard, Buffalo, N. Y. Machine for forging bolt-blanks	310,646	Jan. 13	621	172	30	124
Bruegger, Abraham, Jr., Chicago, Ill. Rubber hose	331,374	Dec. 1	166	42	33	1028
Bruen, William, and S. A. Wall, Newark, N. J. Combined door spring and bell	312,806	Feb. 24	1834	503	30	712
Brambley, James N. (See Gardner and Brambley)						
Brumby Chair Company. (See Brumby, James R., assignor.)						
Brumby, James R., assignor to Brumby Chair Company, Marietta, Ga. Tenoning-machine	314,792	Mar. 31	2290	632	30	1272
Brumby, Robert W., and S. Clarke, Hull, county of York, England. Folding box	332,466	Dec. 15	1798	472	33	1332
Brunck, Samuel U., and G. A. Marsh, Jr., assignors, by mesne assignments, to H. W. and J. H. Wagenet and E. Fusch, Sandusky, Ohio. Calcimine compound	328,645	Oct. 20	1507		33	288
Brundage, Agnes M., Brooklyn, N. Y. Sled	310,110	Jan. 6	27	7	30	7
Brundage, William T., Brooklyn, N. Y. Artist's sketch-box	332,045	Dec. 8	1187	310	33	1219
Brunner, Edward H. (See Leinbach, Wille, and Brunner.)						
Brunner, Jacques. (See Kunkler and Brunner.)						
Brunns, Christopher L., Bergen Point, N. J. Electric circuit-breaker	329,808	Nov. 3	516	131 132	33	602
Brunson, Dan, Jewell City, Kans. Cultivator	316,942	May 5	15	4, 5	21	525
Brunswick, Emanuel, San Francisco, Cal. Billiard-table	324,004	Aug. 11	805	223 224	32	681
Brunschke, Charles J., Chicago, Ill. Smoke-burning appliance for steam-boilers	322,294	July 28	2013	531	32	388
Brush, Charles F., Cleveland, Ohio. Armature for dynamo-electric machines	310,876	Jan. 20	917	250	30	185
Brush, Charles F., Cleveland, Ohio. Electric-arc lamp	312,184	Feb. 10	995	271	30	540
Brush, Charles F., Cleveland, Ohio. Armature for dynamo-electric machines	312,807	Feb. 24	1835	503	30	713
Brush, Charles F., Cleveland, Ohio. Preparing glass for cementation	331,764	Dec. 8	781	198	33	1146

Alphabetical list of patentees—Continued.

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Brush, Elden R. (See Masters and Kimball, assignors.)						
Brush, Hannah M., Manistee, Mich. Stove-hood	333,055	Dec. 22	2607	663	33	1485
Brush, M. Wagner, Hyde Park, and M. A. Salomons, Boston, Mass., assignors of one-third to C. F. Boughton, New York, N. Y. Mechanism for evening sheets of paper on fly-boards of printing-presses	316,329	Apr. 21	1853	490	31	348
Brustlein, John E., et al. (See Müller, Armand, assignor.)						
Brütsch, Carl, New York, N. Y. Machine for ornamenting picture-frame moldings	328,835	Oct. 20	1740	{ 453 454 }	33	333
Bruun, Julius G. A. (See Therkelsen and Bruun.)						
Bryan, Anthony H., Evansville, Ind. Automatic pump and water-elevator	326,266	Sept. 15	1404	368	32	1988
Bryan, Carter W., Kansas City, Mo. Handle for orange-boxes, &c.	313,051	Mar. 3	16	4	30	782
Bryan, Henry O., et al. (See Sherwood, James H., assignor.)						
Bryan, James G., Philadelphia, Pa. Wash-pave	331,032	Nov. 24	2123	575	33	833
Bryan, Joseph A., and J. B. Fielding, Prescott, Ark. Cattle-car	328,915	Oct. 27	1859	488	33	361
Bryan, Joseph A., and J. B. Fielding, Prescott, Ark. Stock-car	328,916	Oct. 27	1860	486	33	361
Bryan, William J. S., and I. Boutell, St. Louis, Mo. Sash-fastener	316,875	Apr. 28	2686	681	31	495
Bryant, Charles A., Wakefield, Mass. Soap-holder	316,734	Apr. 28	2433	633	31	460
Bryant, Charles A., Wakefield, Mass. Egg-beater	319,191	June 2	310	82	31	1105
Bryant, Edson L., assignor of one-half to Wallace & Sons, Ansonia, Conn. Shade-holder	317,093	May 26	2362	630	31	922
Bryant, Fred L. (See Frost and Bryant.)						
Bryant, Fred L., assignor to Ames & Frost, Chicago, Ill. Machine for making coiled-wire springs	328,340	Oct. 13	1137	{ 293 294 }	33	215
Bryant, George. (See Bates and Bryant.)						
Bryant, George B. (See Dougherty and Bryant.)						
Bryant, George B., Philadelphia, Pa. Cable railway	317,085	May 5	205	51, 52	31	560
Bryant, George B., Philadelphia, Pa. Grip for cable railways	317,086	May 5	207	52	31	561
Bryant, George B., assignor of one-half to E. D. Dougherty, Philadelphia, Pa. Gripper for cable railways	317,967	May 19	1402	376	31	797
Bryant, George B., assignor of one-half to E. D. Dougherty, Philadelphia, Pa. Combined supporting-bracket for underground traction-railways and electrical wire conduits	318,951	June 2	18	5	31	1052
Bryant, George B., and E. D. Dougherty, Philadelphia, Pa. Cable railway	318,950	June 2	17	5	31	1052
Bryant, George H., Winston, N. C. Hoisting apparatus	321,004	June 30	2792	742	31	1589
Bryant, James, Indianapolis, Ind. Fence	317,495	May 12	772	197	31	672
Bryant, James T., Richmond, Va. Feed-water cleaner	326,014	Sept. 8	1053	268	32	1216
Bryant, Orrin, and E. Ring, Westfield, Mass. Machine for the manufacture of whip-stocks, &c.	318,348	May 19	1905	{ 513 514 }	31	890
Bryant, Orrin, Westfield, Mass., assignor to J. B. Pierce and J. Bond, Buffalo, N. Y. Cutting screw-threads	320,536	June 23	2183	576	31	1468
Bryant, P. B., et al. (See Draper, Charles A., assignor.)						
Bryant, Robert H., Brooklyn, N. Y. Bed-lounge	320,623	June 23	2302	607	31	1490
Bryant, Rufus P., and J. H. Gilliland, Jacksonville, Ala. Railway-tamper	318,163	May 19	1652	442	31	844
Bryant, Samuel T., Shelburn, Ind. Link for steam-engines	322,415	July 21	1353	353	32	263
Bryant, Solon, Worcester, Mass. Corset-lacing	319,190	June 2	310	82	31	1105
Bryant, Solon, Worcester, Mass. Corset	322,251	July 14	1136	296	32	216
Bryant, Thomas W., Ansonia, Conn. Holder for incandescent lamps	310,373	Jan. 6	263	78	30	54
Bryce, Robert, Louisville, Ky. Manufacture of hydraulic cement	315,711	Apr. 14	1015	.....	31	190
Bryce, Stephen T., Dayton, Ohio. Hot-air furnace	319,062	June 2	159	43	31	1076
Bryden Forged Horseshoe Works. (See Greenwood, Peter F., assignor.)						
Bryden, Robert C., Haverhill, Mass., assignor to Singer Manufacturing Company of New Jersey. Clamp for button-hole sewing-machines	319,890	June 9	1243	328	31	1283
Bryon, Benjamin. (See Luce, Boole, and Bryon.)						
Buatt, Solomon P., Baatrop, La. Gold and other metallic amalgam	324,650	Aug. 18	1707	.....	32	855
Bubach, John G., Princeton, Ill. Pruning implement	317,716	May 19	1051	274	31	793
Buch, Henry G., Oregon, Pa. Nut-lock	328,456	Oct. 20	1243	393	33	242
Buch, Milton F., assignor of one-half to D. P. Bitner, Lancaster, Pa. Railway-rail joint	317,293	May 5	497	125	31	614
Buchan, William P., Glasgow, county of Lanark, Scotland. Siphon water-trap	326,713	Sept. 22	1090	522	32	1404
Buchanan, Alexander F., Montrose, N. Y. Bracket for hand-grenades	328,874	Oct. 20	1787	466	33	341
Buchanan, David R., and E. L. Dodge, assignors to R. L. Taft, Springfield, Ill. Producing upon the dials and faces of watches the painted Roman capital numeral letters	323,272	July 28	2538	674	32	486
Buchanan, Frank L., Howard, Ohio. Feed-trough	318,349	May 19	1907	514	31	891
Buchanan, James A., Hunts City, Ill. Straw-cutting attachment for thrashing-machines	327,064	Sept. 29	2496	652	32	1500
Buchanan Manufacturing Company. (See Schrav, Fredrick, assignor.)						
Bucher, Gibbs & Co. (See Gibbs, Lewis, assignor.)						
Buchholtz, John P., Philadelphia, Pa. Vehicle-spring	327,518	Oct. 6	10	3	33	4
Buchholz, William F., et al. (See Russet, Charles F., assignor.)						
Buchnan, William M., Columbia, Tenn. Two-wheeled vehicle	311,290	Jan. 27	1523	415	30	300
Buchner, Herman, et al. (See Graham, Erl, assignor.)						
Buchter, Frank, assignor to Morse Twist Drill and Machine Company, New Bedford, Mass. Machine for making twist-drills	320,456	June 23	2081	546	31	1449
Buck, D. Azro A., Waterbury, Conn. Spirometer	325,784	Sept. 8	767	192	32	1163
Buck, Edward A., assignor to himself and E. W. Veazie, Bangor, Me. Driving-calk	325,194	Aug. 25	2431	668	32	997
Buck, Joseph. (See Wommer and Buck.)						
Buck, Orlando J., Chicago, Ill. Paint-mixer	318,864	May 26	2604	691	31	1024
Buckelew, Ansel S., Jersey City, N. J. Balance-wheel for watches	330,558	Nov. 17	1520	406	33	810
Buckeye Engine Company. (See Thompson, Joseph W., assignor.)						
Buckeye Iron and Brass Works. (See Krutzsch, William, assignor.)						
Buckingham, Alexander H., New Haven, Conn. Combined button and hat hook	319,192	June 2	311	83	31	1105
Buckingham, Charles L., New York, N. Y. Regulator for dynamo-electric machines	320,840	June 23	2560	678	31	1541
Buckingham, Charles L., New York, N. Y. Electric-arc lamp	320,841	June 23	2562	678	31	1541
Buckingham, Charles L., New York, N. Y. Regulator for dynamo-electric machines	320,842	June 23	2564	{ 678 679 }	31	1541
Buckingham, Charles L., New York, N. Y. Electric-arc lamp	320,843	June 23	2567	679	31	1542
Buckingham, Henry E. (See Bailey and Buckingham, assignors.)						
Buckingham, Joseph P., New York, N. Y. Paper box	320,331	June 16	1896	496	31	1405
Buckingham, Joseph P., New York, N. Y. Box	325,729	Sept. 8	693	173	32	1149
Buckingham, Millard E. (See Bailey and Buckingham.)						
Buckland, George G., Tulare, Cal. Road-locomotive	321,005	June 30	2793	{ 742 743 }	31	1569
Buckler, David, R. D. Cain, J. Taubert, and E. N. Pelzer, Ionia, Mich. Buggy-boot	323,518	July 21	1504	395	32	290
Buckley, George E. (See Atoheon, Theophilus, assignor.)						
Buckley, Herbert T., and W. H. Wineland, Easton, Pa. Bolt	310,787	Jan. 13	802	217	30	158
Buckley, John P., assignor of one-half to P. Echert, Cincinnati, Ohio. Steam-boiler water-feeder	325,195	Aug. 25	2433	668	32	997
Buckley, Wale, Easton, Pa. Tuning attachment for cornets	331,679	Dec. 1	660	163	33	1114

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Buckley, William, Sheffield, county of York, England. Metallic packing-ring for pistons, pump-buckets, &c.	313,980	Mar. 17	1206	338	30	1034
Buckley, William F., Cleveland, Ohio. Electric-arc lamp.	315,473	Apr. 14	600	180	31	128
Buckley, William F., Cleveland, Ohio. Armature for dynamo-electric machines.	315,903	Apr. 14	1590	336	31	240
Buckley, William F., Cleveland, Ohio. Arc lamp.	318,350	May 19	1006	514 515	31	891
Buckley, William N., Meriden, Conn. Spring-balance curtain-fixture.	310,557	Jan. 13	511	141	30	104
Buckley, William F., assignor to himself and W. Van Der Lyn, Oxford, N. Y. Truss-frame for roofs of buildings.	319,881	June 9	1243	328	31	1298
Buckman, Erwin D. and I., Brooklyn, N. Y. Machine for jointing staves.	314,648	Mar. 31	2178	578	30	1238
Buckman, Ira. (See Buckman, Erwin D. and I.)						
Buckman, Thomas E., Jacksonville, Fla. Car-coupling.	329,358	Oct. 27	2518	649	33	479
Buckner, James N., Windsor, Ontario, Canada. Gate.	327,653	Oct. 6	210	52	33	37
Buckner, Marion S., Savannah, Ga. Window.	326,943	Sept. 29	2348	614	32	1474
Buckner, Moses L. S., Shelbyville, Ky. Aerial drop for explosives.	315,712	Apr. 14	1016	267	31	190
Bueyrus Foundry and Manufacturing Company. (See Thompson, John, assignor.)						
Budd, Henry. (See Budd, Samuel W., assignor.)						
Budd, J. Talman, Buffalo, N. Y. Suspenders.	329,433	Nov. 3	9	3	33	506
Budd, J. Talman, Buffalo, N. Y. Clasp for suspenders and other articles.	329,434	Nov. 3	11	3	33	507
Budd, John C., Defiance, Ohio. Farm-gate.	327,654	Oct. 6	211	52	33	38
Budd, Samuel W., assignor to himself and H. Budd, Philadelphia, Pa. Latch-lock.	328,875	Oct. 20	1788	467	33	341
Budlong, William C., et al. (See Richards, Marcus C., assignor.)						
Buehler, Charles F., Spencerville, Ohio. Revolving clothes-rack.	320,046	June 16	1475	389	31	1333
Buehler, Charles F., Spencerville, Ohio. Clothes-drier.	331,864	Dec. 8	990	237	33	1170
Buehler, Rudolph R., Philadelphia, Pa. Gong door-bell.	324,915	Aug. 25	2066	565	32	929
Buel, James, Woburn, Mass. Automatic fire-extinguisher.	329,380	Oct. 27	2520	649	33	479
Buell, Charles E., Springfield, Mass., assignor of one-third to W. B. Cooley, Easton, Pa. Velocipede.	331,276	Dec. 1	14	4	33	1003
Buell, Frank A., Brooklyn, N. Y. Saw-handle.	314,562	Mar. 31	2067	552	30	1213
Buell, Park A., Stockton, Cal. Rabbiting cutter-head.	318,596	May 26	2239	599 600	31	969
Buffalo Dental Manufacturing Company. (See Snow, George B., assignor.)						
Buffalo Electric Works. (See Lannert, John A., assignor.)						
Buffet, Jules, Paris, France. Furnace for burning liquid hydrocarbons.	313,403	Mar. 3	510	133 134	30	872
Buffett, Jules, assignor to J. Fontenelle, Paris, France. Cook or valve.	329,809	Nov. 3	518	132 497	33	603
Buford, Jefferson L., Albany, Tex. Distance-instrument.	330,818	Nov. 17	1847	488	33	873
Bugbee, George W. (See Doane and Bugbee.)						
Bugbee, Philatus F., Chazy, N. Y. Mechanical motor.	329,046	Dec. 8	1188	311	33	1219
Bugg, Owen T., New York, N. Y. Cotton-harvester.	329,810	Nov. 3	519	132	33	603
Bugg, Owen T., Newark, N. J. Forming teeth upon cylinders.	329,811	Nov. 3	521	133	33	603
Bugg, Owen T., Newark, N. J. Cotton-gin.	333,387	Dec. 29	3067	800	33	1572
Buhl & Keller. (See Schneider, Carl H., assignor.)						
Buhoup, Henry C. (See Smith, James R., assignor.)						
Bulck, David D., Detroit, Mich. Valve.	321,825	July 7	655	170	32	119
Buis, Alfred J., St. Louis, Mo. Grain-scale.	321,481	July 7	98	26	32	20
Buist, David, et al. (See Alden, Charles E., assignor.)						
Bulen, George F., Jersey City, N. J., assignor to Automatic Fire Alarm and Extinguisher Company, (limited), New York, N. Y. Thermostatic circuit-closer.	328,443	Dec. 29	2142	621	32	1584
Bulkeley, Worthington, Cleveland, Ohio. Clothes-wringer.	323,107	Dec. 29	2690	705	32	1505
Bulkeley, Worthington, Cleveland, Ohio, and R. C. Browning, Orange, N. J., assignors to E. T. Browning, New York, N. Y. Bed-bottom.	317,922	May 12	1329	357	31	776
Bulkeley, Frank M., Bridgeport, Conn. Marking-stamp.	331,475	Dec. 1	514	84	33	1054
Bull, Arthur T., and W. Hill, Jr., Limestone, N. Y. Agitator for tan-vats.	324,910	Aug. 25	2067	566	32	929
Bull, George, assignor of one-half to J. D. Fryor, Winfield, Kans. Bedstead.	318,351	May 19	1910	515	31	691
Bull & Haynes et al. (See Blackham, George E., assignor.)						
Bull, Jacob B., Christiania, Norway. Lock for fire-arms.	313,170	Mar. 3	183	44	30	811
Bull, Sumner, Walden, N. Y. Soldering-clamp.	325,497	Sept. 1	375	92	32	1087
Bull, William B. (See Cahill, William J., assignor.)						
Bull, William S. (See Bowen, Ephraim N., assignor.)						
Bullard, Charles W., Chicago, Ill. Door-hanger.	317,496	May 12	773	197	31	672
Bullard, Charles W., Chicago, Ill. Door-hanger.	321,061	June 30	2598	770	31	1608
Bullard, Charles W., Chicago, Ill. Knob attachment.	323,393	Aug. 4	13	4	32	525
Bullard, F. F. (See Tucker, William, assignor.)						
Bullard, George W. (See Enos, John R., assignor.)						
Bullivant, William C., Boston, Mass. Window.	318,164	May 19	1654	442	31	844
Bullivant, William M., London, England. Rope-stopper.	311,565	Feb. 3	145	41	30	376
Bullivant, William M., London, county of Middlesex, England. Torpedo-net.	312,965	Feb. 24	2039	556	30	749
Bulloch, Robert H., assignor of one-half to F. C. Garmany, Savannah, Ga. Mechanical board-measure calculator.	324,078	Aug. 11	909	251	32	699
Bullock, Chester, New York, N. Y. Cable or electric railway yoke or frame, &c.	310,558	Jan. 13	514	141	30	104
Bullock, Chester, New York, N. Y. Covering for cables or ropes used to propel vehicles.	314,995	Apr. 7	12	3	31	4
Bullock, Chester, New York, N. Y. Car for cable railways.	328,917	Oct. 27	1981	488	33	362
Bullock, Edward A., Du Bois, Pa. Door-securer.	312,426	Feb. 17	1324	365	30	611
Bullock, Henry P., and H. B. Cook, Jonesborough, Tex. Wall-cover.	325,816	Sept. 8	815	204	32	1172
Bullock, Jeff. D. (See Noble and Bullock.)						
Bullock, Russell D., et al. (See Cary, Charles H., assignor.)						
Bullock, William C. A., Meridian, Miss. Revolver.	320,910	June 30	2666	709	31	1566
Bullock, William D., Providence, R. I. Draw-bridge.	322,787	July 21	1848	491	32	353
Bulmer, Charles. (See Bulmer, George D. and C.)						
Bulmer, George D. (See McKenna and Bulmer.)						
Bulmer, George D. and C., White House, assignors of one-third to W. R. Jones, Braddocks, Pa. Nut-lock.	325,235	Sept. 1	6	2	32	1016
Bulova, Joseph, New York, N. Y. Finger-ring.	327,431	Sept. 29	2985	780	32	1586
Bulpit, J. H. (See Wonacott, Charles, assignor.)						
Bultmann, Frederick H., Cleveland, Ohio. Sash-holder.	315,474	Apr. 14	692	181	31	129
Bumgarner, Abraham, Given, Ohio. Harvester.	325,392	Sept. 1	241	60	32	1061
Bumstead, Edwin S., et al. (See Hardwick, Joseph O., assignor.)						
Bundsen, Victoria I. H., London, England. Apparatus for affixing stamps.	322,578	July 21	1583	417 418	32	303
Bungart, Peter J. (See Mayer and Bungart.)						
Bungars, Gottfried, Brooklyn, N. Y. Roundabout.	326,474	Sept. 15	1665	435	32	1337

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Bunker, Le Roy S., Valton, Wis., assignor to himself and J. S. Meade, Newell, Iowa. Food-steamer	315,713	Apr. 14	1016	267	31	191
Bunker, William I., et al. (See Kenna, Joseph W., assignor.)						
Bunker, William I., Chicago, Ill. Rocking-chair attachment	313,707	Mar. 10	905	235	30	955
Bunker, William I., Chicago, Ill. Spring attachment for rocking-chairs	314,513	Mar. 24	1998	532	30	1173
Bunker, William I., Chicago, Ill. Spring	319,555	June 9	793	210	31	1203
Bunker, William I., Chicago, Ill. Spring	326,944	Sept. 29	2349	614	32	1474
Bunn, David. (See McDonald, Gilbert, assignor.)						
Bunn, Edward F., Westborough, Mo. Cultivator	323,907	Aug. 11	681	191	32	658
Bunn, George W., Frenchtown, N. J. Vehicle-spring	311,807	Feb. 3	416	121	30	439
Bunn, James H., Henning, Tenn. Seed planter and cultivator	317,968	May 19	1403	377	31	798
Bunnell, Benjamin B., Branford, Conn. Automatic lamp lighter and extinguisher	313,297	Mar. 3	374	93	30	845
Bunnell & Co., J. H. (See Casey, Thomas A., assignor.)						
Bunnell, David M., assignor of one-half to J. H. Bunnell, Brooklyn, N. Y. Drying grain	322,252	July 14	1137	297	32	216
Bunnell, James F., Mexia, Tex. Spring bed-bottom	327,432	Sept. 29	2986	780	32	1527
Bunnell, Jesse H. (See Bunnell, David M., assignor.)						
Bunnell, Jesse H., Brooklyn, N. Y. Electric-switch plug	325,653	Sept. 8	582	147	32	1131
Bunten, Samuel H. (See Calkins and Bunten.)						
Buntin, George, Boston, Mass. Car and seat	316,735	Apr. 28	2434	{ 633 634 }	31	460
Buntin, George, Boston, Mass. Rest for the arms of car-seat backs	316,736	Apr. 28	2435	634	31	460
Bunting, John T., Chicago, Ill. Medical compound	325,586	Sept. 1	492		32	1110
Bunting, William, Jr., Boston, Mass., assignor to Meyer-Sniffen Company, (limited,) New York, N. Y. Water-closet	317,717	May 12	1052	274	31	723
Bunting, William, Jr., Boston, Mass., assignor to Meyer, Sniffen Company, (limited,) New York, N. Y. Water-closet	325,587	Sept. 1	492	123	32	1110
Bunting, William, Jr., Boston, Mass., assignor to Meyer-Sniffen Company, (limited,) New York, N. Y. Supply-tank for water-closets	329,361	Oct. 27	2521	650	33	480
Bunting, William, Jr., Boston, Mass., assignor to Meyer-Sniffen Company, (limited,) New York, N. Y. Supply-tank for water-closets	329,885	Nov. 10	632	160	33	630
Bunting, William, Jr., Boston, Mass., assignor to Meyer-Sniffen Company, (limited,) New York, N. Y. Water-closet	331,610	Dec. 1	548	134	33	1094
Bunting, William, Jr., Boston, Mass., assignor to Meyer-Sniffen Company, (limited,) New York, N. Y. Valve for water-closet supply-tanks	332,635	Dec. 15	2016	529	33	1370
Bunton, William A., et al. (See Honlehan, James, assignor.)						
Burch, Charles E., Panama, N. Y. Propelling vessels by exhaust-steam	313,981	Mar. 17	1298	338	30	1034
Burch, Nancy E., Carthage, Mo. Flower-stand	324,079	Aug. 11	910	252	32	699
Burchard, Charles E., Martinsburg, Mo. Automatic grain-welgher	333,444	Dec. 29	3144	{ 621 622 }	33	1585
Burchfield, Mary M., Kingston, Ill. Steam fruit-drier	323,781	Aug. 4	518	146	32	620
Burckhardt, Fredrich, St. Charles, Mo. Manufacturing hominy, grits, &c.	313,982	Mar. 17	1299	339	30	1035
Burckhardt, Fredrich, St. Charles, Mo. Car-coupling	313,983	Mar. 17	1300	339	30	1035
Burckhardt, Fredrich, St. Charles, Mo. Grain-huller	313,984	Mar. 17	1301	339	30	1035
Burckhardt, Fredrich, St. Charles, Mo. Car-roof	313,985	Mar. 17	1301	339	30	1035
Burckhardt, Fredrich, St. Charles, Mo. Car-floor	313,986	Mar. 17	1302	340	30	1035
Burckhardt, Fredrich, St. Charles, Mo. Machine for cutting oats, &c.	313,987	Mar. 17	1303	340	30	1035
Burckhardt, Fredrich, St. Charles, Mo. Bolting reel attachment	313,988	Mar. 17	1303	340	30	1036
Burckhardt, Fredrich, St. Charles, Mo. Grain-huller	313,989	Mar. 17	1304	340	30	1036
Burden, Charles L., Gun City, Mo. Gate	312,427	Feb. 17	1324	365	30	611
Burden, Frederick L. (See Davis, William F., assignor.)						
Burden, Frederick C. (See Burden, William H. and F. C.)						
Burden, William H. and F. C., Cleveland, Ohio. Journal-lubricator	327,519	Oct. 6	12	3	33	4
Burdge, Jonathan E., Home City, Ohio. Filtering cut-off rain-water spout for cisterns	326,945	Sept. 29	2350	614	32	1474
Burdett, George L., Keene, N. H. Chair	317,497	May 12	774	197	31	672
Burdick, John R., assignor of one-half to D. H. Dorsett, Chicago, Ill. Apparatus for molding the sections of conduits for underground conductors	322,047	Dec. 8	1188	311	33	1219
Burdick, Justin H., Utica, assignor to Burdick Nut Lock Company, Milwaukee, Wis. Nut-lock	323,560	Aug. 4	234	69	32	565
Burdick, Leander, and W. F. Coleman, assignors to Chase, Isherwood & Co., Toledo, Ohio. Tobacco-granulating machine	318,542	May 26	2177	583	31	948
Burdick, Norman, and J. A. Sandford, Albany, N. Y. Forming hinge-pin holes	317,498	May 12	774	108	31	672
Burdick Nut Lock Company. (See Burdick, Justin H., assignor.)						
Burdick, Orrin C. (See Bruderer and Burdick.)						
Burdon, Levi L., Providence, R. I. Ingot for plated wire	327,655	Oct. 6	212	53	33	38
Burges, John, Westfield, Mass. Automatic damper-regulator	315,904	Apr. 14	1291	336	31	940
Burges, John, Westfield, Mass. Automatic damper-regulator	327,132	Sept. 29	2595	676	32	1517
Burger, Charles J. (See Stewart, William H., assignor.)						
Burger, John A. (See Anderson, Thomas A., assignor.)						
Burger, S. F., et al. (See Slaght, Edwin, assignor.)						
Burger, Theodore W., Duellen, N. J., and H. A. Lee, New York, N. Y. Sheet-metal can	321,277	June 30	3140	836	31	1652
Burgert, Joseph, St. Louis, Mo. Chicken-house	323,782	Aug. 4	519	146	32	690
Burgess, Andrew, Owego, N. Y. Magazine fire-arm. (Reissue.)	10,555	Feb. 3	522	{ 141 142 }	30	447
Burgess, Charles M., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Fire-shovel	311,160	Jan. 20	1319	362	30	257
Burgess, Charles M., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Handle for drawers	311,953	Feb. 10	665	182	30	479
Burgess, Daniel, New York, N. Y. Ventilator for cooking and other apartments	322,379	Dec. 15	1662	435	33	1309
Burgess, Dudley L., and J. F. Broxton, Dallas, Tex. Washing-machine	330,292	Nov. 10	1162	309	33	735
Burgess, Eben, Chelsea, Mass. Bed-lounge	312,327	Feb. 17	1192	396	30	585
Burgess, Edward C., Islington, county of Middlesex, England. Apparatus for combustion of liquid fuel	315,238	Apr. 7	363	89	31	66
Burgess, Gardner N., Jr., Providence, R. I. Heeling-jack	331,476	Dec. 1	345	85	33	1054
Burgess, John B. (See Burt and Burgess.)						
Burgess, Jordan H., and J. Jr., Leesburg, assignors of one-third to E. H. Miller, Greenfield, Ohio. Leveling attachment for separators	318,865	May 26	2605	691	31	1024
Burgess, Joseph, Jr. (See Burgess, Jordan H., and J. Jr.)						
Burgess, Robert, assignor of one-half to J. F. Reinhard, Passaic, N. J. Engraving-machine	321,482	July 7	99	27	32	20
Burgess, Titus K. (See Fisher and Burgess.)						
Burgess, Winfield S., Marathon, N. Y. Automatic lamp-extinguisher	322,579	July 21	1586	418	32	303
Burgett, Erasmus G., Wabash, Ind. Kitchen-cabinet	331,611	Dec. 1	550	134	33	1094
Burghoff, Augustus C., et al. (See Donovan, George L., assignor.)						
Burgtorf, Charles W., Petaluma, Cal. Harness	316,443	Apr. 28	2035	533	31	366

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			Spec.	Dr'g.	Vol.	Page.
Burgtorf, Charles W., Petaluma, Cal. Seat for two-wheeled vehicles.....	330,559	Nov. 17	1521	406	33	810
Burbans, Albert, Rondout, N. Y. Neck-wear fastener.....	317,969	May 19	1404	377	31	798
Burbans, Lorenzo. (See Flah, John, assignor.)						
Burk, B. F. (See Rook, John H., assignor.)						
Burk, Hiram C., assignor of one-half to J. W. Chesnut, Cleveland, Ohio. Machine for making miners' needles.....	328,107	Oct. 13	785	905	33	149
Burk, William E., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Adjustable chair.....	330,844	June 23	2568	679	31	1542
Burk, William H., Sheboygan, Wis. Feed-water heater.....	321,338	June 30	3209	856	31	1667
Burke, Charles G., Richmond Hill, N. Y. Multiplex telegraph.....	313,298	Mar. 3	377	93, 94	30	845
Burke, Edwin R. (See Craven, Edward T., assignor.)						
Burke, James, Springfield, Mass. Repairing-lath.....	331,765	Dec. 8	782	198	33	1146
Burke, James M., Dublin, Ireland, assignor to himself, C. A. Chapin, and H. Shackell, Jr., Milwaukee, Wis. Device for securing fish-plates to joints of railway-rails.....	314,314	Mar. 24	1737	459	30	1124
Burke, John, assignor of one-half to H. Ellwood, De Kalb, Ill. Cutting apparatus for grain cutting or mowing machines.....	324,651	Aug. 18	1708	471	32	855
Burke, Melancthon T., La Crosse, Wis. Hame-fastener.....	315,714	Apr. 14	1017	268	31	191
Burke, Stephen M., Edon, Ohio. Grate for furnaces.....	323,290	July 28	2503	692	32	497
Burke, Thomas, New York, N. Y. Safety-valve.....	315,475	Apr. 14	693	181	31	139
Burke, Thomas M., Fitchburg, Mass. Adjustable screw-cutting die-stock.....	316,330	Apr. 21	1254	490	31	349
Burke, William A., assignor of one-half to F. Patek, San Francisco, Cal. Grip for cable railways.....	317,619	May 12	933	239	31	700
Burkel, Peter, Aurora, Ill. Circular toy bowling-alley.....	322,416	July 21	1354	353	32	263
Burkett, James, assignor of two-thirds to N. Slingland, Falls Village, Conn. Locomotive-furnace.....	330,819	Nov. 17	1849	498	33	873
Burkhardt, Fredk., Trinidad, Colo. Feed-bag.....	322,253	July 14	1138	297	32	216
Burkhardt, Thomas, New York, N. Y. Stove.....	310,647	Jan. 13	624	173	30	125
Burkhardt, Thomas, Brooklyn, N. Y. Bottom for cans, &c.....	317,620	May 12	934	230	31	700
Burkhardt, Thomas, Brooklyn, N. Y. Stove.....	322,560	July 21	1587	418	32	304
Burkhardt, Gustav, Homer, Ill. Chimney top and ventilator.....	317,718	May 12	1054	274	31	723
Burkhardt, Gustav, Homer, Ill. Washing-machine.....	318,413	May 19	1987	534	31	905
Burkhead, Henry C., Hardin Springs, Ky. Nut-lock.....	314,361	Mar. 24	1790	476	30	1136
Burkhead, Henry C., Hardin Springs, Ky. Coupling for railway-rails.....	331,612	Dec. 1	551	134	33	1094
Burkholder, Edward, Glendale, Ky. Corn-planter.....	332,874	Dec. 22	2360	624	33	1439
Burkholder, John, Ashland, Ohio. Traction-wheel.....	317,719	May 12	1054	275	31	723
Burkman, Walfrid, assignor to C. H. Frost, Chicago, Ill. Clay reducer and disintegrator.....	312,808	Feb. 24	1836	504	30	713
Burkman, Walfrid, assignor to C. H. Frost, Chicago, Ill. Machine for reducing clay.....	323,908	Aug. 11	682	191	32	659
Burkman, Walfrid, assignor to C. H. Frost, Chicago, Ill. Brick-machine.....	323,909	Aug. 11	684	192	32	659
Burky, Joseph, Gridley, Ill. Windmill.....	322,345	July 14	1255	328	32	238
Burley, Elbridge R. (See Barler, Augustus C., assignor.)						
Burley, Franklin G., Boston, Mass. Bicycle-saddle.....	326,946	Sept. 29	2351	615	32	474
Burle, John D., Kansas City, Mo., assignor of three-fourths to J. B. F. Cates, H. Lund, and M. S. Tyler. Corn-harvester.....	316,943	May 5	16	5	31	526
Burlingame, Amy L., Willett, N. Y. Napkin pin or holder.....	311,640	Feb. 3	240	68	30	394
Burlingame, Elisha S. (See Burlingame, Henry A. and E. S.)						
Burlingame, Elisha S., Central Falls, R. I., assignor to L. J. Knowles & Brother, Worcester, Mass. Warp-beam for looms.....	325,236	Sept. 1	7	3	32	1016
Burlingame, Henry A., Griswold, Conn., and E. S. Burlingame, Central Falls, R. I. Tire-tightener.....	321,578	July 7	232	62	32	45
Burmah, Jacob, Bienne, Switzerland. Watch-stand alarm.....	327,919	Oct. 6	536	140	33	96
Burneister, Frederick, Cleveland, Ohio. Sash-holder.....	310,983	Jan. 20	1073	292	30	212
Burneister, F. and Wain's Maskin, og Skibbyggeri. (See Jönsson, Sven, assignor.)						
Burnap, Hiram F. (See Andrews, Nathaniel S., assignor.)						
Burnap, Hiram F. (See Andrews and Burnap, assignors.)						
Burnap, James M. (See Andrews and Burnap.)						
Burne, William C., New York, N. Y. Feathering paddle-wheel.....	313,652	Mar. 10	839	218	30	943
Burnell, Strong, Anacortes, Wash. Ter. Guide for sawing stair-rails.....	320,845	June 23	2571	680	31	1543
Burnet, Jacob, Jr., Cincinnati, Ohio. Lamp.....	324,747	Aug. 18	1825	504	32	878
Burnet, Nelson R. H., Matthews, N. C. Cotton-cultivator.....	318,415	May 19	1988	535	31	906
Burnett, Cuthbert, Hartlepool, county of Durham, England. Apparatus for raising water.....	325,588	Sept. 1	494	123	32	1110
Burnett, Cuthbert, Hartlepool, county of Durham, England. Apparatus for raising water.....	326,267	Sept. 15	1405	366	32	1288
Burnham, Alfred S., Parkersburg, Iowa. Folding bed.....	324,748	Aug. 18	1826	505	32	879
Burnham, Andrew W., Boston, Mass. Clothes-horse.....	328,183	Oct. 13	880	228	33	166
Burnham, Arthur M., Gardiner, assignor to J. R. Bodwell, Hallowell, Me. Counting attachment for machines.....	317,438	May 5	698	176	31	649
Burnham, Arthur M., assignor to C. Gifford and J. T. Richards, Gardiner, Me. Mop-wringer.....	326,898	Sept. 22	2283	596	32	1454
Burnham, Charles, Philadelphia, Pa. Railway-torpedo.....	327,520	Oct. 6	12	4	33	4
Burnham, George, et al. (See Worcester, Edward J., assignor.)						
Burnham, George, and A. Goddard, Worcester, Mass. Drilling-machine.....	319,932	June 16	1348	354	31	1310
Burnham, William H., and C. H. Haley, assignors to United States Wind Engine and Pump Company, Batavia, Ill. Hay-fork.....	318,416	May 19	1989	535	31	906
Burnley, James. (See Holden, Burnley, and Fawell.)						
Burnley, William, assignor of two-thirds to C. A. Hitchcock, North East, and L. F. Watson, Warren, Pa. Telephone receiver.....	326,268	Sept. 15	1407	366	32	1288
Burnley, William, assignor of two-thirds to C. A. Hitchcock, North East, and L. F. Watson, Warren, Pa. Telephone-transmitter.....	326,269	Sept. 15	1409	367	32	1289
Burnley, William, assignor of two-thirds to C. A. Hitchcock, North East, and L. F. Watson, Warren, Pa. Induction-coil.....	326,270	Sept. 15	1411	367	32	1289
Burns, Benjamin C., et al. (See McClellan, Oscar D., assignor.)						
Burns, Elijah F., assignor to Detroit Steel and Spring Works, Detroit, Mich. Machine for forming spring-teeth.....	311,954	Feb. 10	665	182	30	479
Burns, Frank, North East, Pa. Bottle-stopper.....	312,328	Feb. 17	1193	326	30	585
Burns, Hays, Double Springs, Ala. Ox-yoke.....	313,052	Mar. 3	17	5	30	782
Burns, James, Chicago, Ill. Drag-saw.....	329,886	Nov. 10	633	161	33	630
Burns, John, Chicago, Ill. Egg-carrier.....	315,476	Apr. 14	694	181	31	139
Burns, Philip, Norwich, Conn. Knob attachment.....	328,184	Oct. 13	881	229	33	167
Burns, Robert E., San Francisco, Cal. Apparatus for burning fuel.....	326,947	Sept. 22	2352	615	32	1474
Burns, William, Jr., Coshocton, Ohio. Watch-case bezel.....	321,886	July 7	657	170	32	120
Burns, William J., Sterling, Ill. Washing-machine.....	322,001	Oct. 13	642	170	33	123
Burpee, Thomas B. C., Philadelphia, Pa. Coffee-roaster.....	311,955	Feb. 10	667	183	30	480

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Page.
Burpee, W. M. (See Watkins, Harry, assignor.)						
Burr Bed Company. (See Burr, Sanford S., assignor.)						
Burr Bed Company. (See Miller, Albert F., assignor.)						
Burr, Frederick S., and W. M. Fuller, New York, N. Y. Apparatus for grinding ore and other materials.	315,716	Apr. 14	1026	969	31	192
Burr, George S., Evergreen, Colo., assignor of one-half to J. Billingsley, Baltimore, Md. Buoyant screw-propeller.	333,445	Dec. 20	3145	892	33	1565
Burr, John A., New York, N. Y. Shutter-fastener.	318,414	May 19	1967	535	31	905
Burr, John T., Stamford, Conn. Key-seating machine.	319,953	June 16	1349	355	31	1310
Burr, Sanford S., Winnetka, assignor to Burr Bed Company, Chicago, Ill. Spring-bed bottom.	316,444	Apr. 28	2036	534	31	386
Burr, Sanford S., Winnetka, assignor to Burr Bed Company, Chicago, Ill. Spring-bed bottom.	330,203	Nov. 10	1163	310	33	735
Burrell, Christopher T., Au Sable, Mich. Combined burner and boiler-furnace.	324,398	Aug. 11	1818	331	32	757
Burrell, David H., Little Falls, N. Y. Manufacture of cheese.	319,882	June 9	1244		31	1283
Burrell, David H., Little Falls, N. Y. Furnace for burning liquid and gaseous fuel.	324,005	Aug. 11	806	224	32	621
Burrell, James, Bristol, county of Somerset, England. Grate-bar for furnaces.	317,439	May 5	699	176	31	649
Burrell & Whitman. (See Jacobs, Robert W., assignor.)						
Burrell & Whitman. (See Pape, Hermann, assignor.)						
Burridge, Lee S., and N. R. Marshman, New York, N. Y. Type-writing machine.	314,996	Apr. 7	13	4	31	5
Burridge, Lee S., and N. R. Marshman, New York, N. Y. Type-writing machine.	315,386	Apr. 7	547	141	31	99
Burris, Bartley L. (See Reed and Burris.)						
Burrough, Mark S., Merchantville, N. J. Damper for stove and other pipes.	323,346	July 14	1256	329	32	239
Burroughs, John W., Salt Lake City, Utah Ter. Velocipede.	324,749	Aug. 18	1827	505	32	879
Burroughs, William T., Fort Worth, Tex. Center or other table.	326,102	Sept. 15	1170	299	32	1945
Burrows, Daniel, Brooklyn, assignor to J. L. Mott Iron Works, New York, N. Y. Door-connection for water-closet cisterns.	327,133	Sept. 20	2596	676	32	1517
Burrows, Eugene C., Brooklyn, N. Y. Pen-holder.	318,231	May 19	1745	466	31	861
Burrows, George H. (See Manuel and Burrows.)						
Burrows, John W., White Mills, Ky. Plow.	329,008	Oct. 27	2009	522	33	388
Burrows, Willie A., Buffalo, N. Y. Extension service and valve shut-off box.	321,483	July 7	102	27	32	21
Burry, John, Fort Reno, Indian Ter. Motor.	332,048	Dec. 8	1194	312	33	1920
Burry, William C., Allegheny City, Pa. Egg-beater.	328,457	Oct. 20	1244	323	33	242
Burt, Daniel H., et al. (See Wiggin, John E., assignor.)						
Burt, David W., et al. (See Kellogg, Charles, assignor.)						
Burt, Edwin E. (See Miller, James, assignor.)						
Burt, George E., Harvard, Mass. Traction-chain gearing.	325,654	Sept. 8	582	148	32	1131
Burt, George E., Harvard, Mass. Pulverizer and spreader.	326,015	Sept. 8	1054	268	32	1217
Burt, George E., Harvard, Mass. Automatic-loading cart.	326,016	Sept. 8	1055	269	32	1217
Burt, Halajip T., and J. B. Burgess, Archer, Tenn. Churn.	321,339	June 30	3210	856	31	1667
Burt, Henry A., Jr., et al. (See Quaid, Harrison, assignor.)						
Burt, Lou, Detroit, Mich., assignor to J. King, Cleveland, Ohio. Pupillometer.	331,226	Nov. 24	2402	650	33	962
Burt, Samuel S., Chicago, Ill., assignor to A. B. Wood, Ann Arbor, Mich. Type-writing machine.	317,499	May 12	776	198	31	672
Burtis, Willard J., Troy, N. Y. Combined collar-button and necktie-holder.	319,063	June 2	159	43	31	1077
Burton, Augustus G., Chicago, Ill. Perforating-machine.	323,285	July 28	2570	684	32	492
Burton, Augustus G., Chicago, Ill. Perforating-machine. (Reissue).	10,652	Oct. 20	1846	482	33	352
Burton, Charles C., Utica, N. Y. Alternating reversing mechanical movement.	312,249	Feb. 17	1078	297	30	564
Burton, Charles C., Samaria, Mich., assignor of one-half to A. L. Holden, Utica, N. Y. Car-coupling.	328,458	Oct. 20	1945	323	33	242
Burton, Charles H., Cleveland, Ohio. Steam-actuated valve.	317,500	May 12	780	199	31	673
Burton, Charles M., New Haven, Conn. Cartridge-shell extractor.	314,503	Mar. 31	2067	552	30	1213
Burton, George D., (See Perkins and Burton.)						
Burton, George D., Boston, Mass. Stock-car.	311,719	Feb. 3	334	92	30	412
Burton, George D., Boston, Mass. Apparatus for cleaning and trimming finger-nails.	327,065	Sept. 29	2497	652	32	1500
Burton, George D., Boston, Mass. Anti-friction bearing for roller-skates.	329,435	Nov. 3	13	4	33	507
Burton, George D., Boston, Mass. Roller-skate.	329,532	Nov. 3	151	38	33	534
Burton, George D., and E. F. Perkins, Boston, Mass. Stock-car.	323,897	July 28	2016	532	32	389
Burton, George D., New Ipswich, N. H. Carbon electrode for lamps.	322,895	July 28	2014	531	32	389
Burton, George D., New Ipswich, N. H. Stock-car.	322,896	July 28	2014	531	32	389
Burton, George D., New Ipswich, N. H., and G. W. Lord, Boston, Mass. Roller-skate.	317,501	May 12	781	199	31	673
Burton, Henry, Port Huron, Mich. Reversing-gear.	318,598	May 26	2241	600	31	859
Burton, Henry, assignor to W. S. and O. L. Jenks, Port Huron, Mich. Cut-off valve.	318,597	May 26	2240	600	31	859
Burton, Matthew, Philadelphia, Pa. Feed-bag for horses.	326,103	Sept. 15	1171	299	32	1246
Burton, Reuben, Richmond, Va. Slop-bucket.	319,388	June 2	552	150	31	1153
Burtt, Frank. (See Balch and Burtt.)						
Bury, Richard A., and R. M. Bidelman, Adrian, Mich. Device for generating and burning gases.	313,575	Mar. 10	730	192	30	922
Busecker, John, assignor to Tucker, Calder & Co., Utica, N. Y. Double flat binder.	328,646	Oct. 20	1507	392	33	288
Busek, Rudolph. (See Fischer and Busek.)						
Busell, James H. (See Orcutt, William D., assignor.)						
Busell, James H., assignor of one-half to A. Leavitt, Boston, Mass. Leather-skiving machine.	316,006	Apr. 21	1427	371	31	271
Busey, Jerome F., Venice, Pa. Link-machine.	329,010	Oct. 27	2011	523	33	388
Bush, Lewis, Jr., assignor to American Machinery Company, Chicago, Ill. Saw-sharpening machine.	315,715	Apr. 14	1018	268	31	191
Bush, Lewis, Jr., assignor to American Machinery Company, Chicago, Ill. Tool for dressing emery-wheels.	318,952	June 2	19	5	31	1052
Bush, Lewis, Jr., assignor, by mesne assignments, to American Machinery Company, Chicago, Ill. Machine for sawing, tenoning, and boring chair-legs, &c.	332,699	Dec. 22	2128	561	33	1396
Busha, Joseph, Pittsburg, Pa. Coupling for gas-pipes.	333,446	Dec. 29	3146	892	33	1585
Bushfield, William M., Toronto, Ohio. Registering apparatus.	327,134	Sept. 29	2597	676	32	1517
Bushnell, Andrew. (See Brown and Bushnell.)						
Bushnell, Joseph P., et al. (See Springer, Stephen H., assignor.)						
Bushnell, Oscar P., Worcester, Mass. Double platform and platform-shifting mechanism.	311,956	Feb. 10	668	183	30	480
Bushnell, William H., and W. H. Van Gilder, Perryville, Ohio. Sign-board.	325,817	Sept. 8	816	204	32	1172
Busiel, Charles A., et al. (See Eady, William, assignor.)						
Busiel, Frank E., et al. (See Eady, William, assignor.)						
Busiel, John T., et al. (See Eady, William, assignor.)						
Bussard, Felix R., and M. Gates, Hays City, Kans. Tidal power.	332,875	Dec. 22	2363	625	33	1440

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Butcher, Charles, Boston, Mass. Floor and ceiling	328,185	Oct. 13	882	229	33	107
Butcher, William, York, Pa. Revolving flower-stand	311,408	Jan. 27	1682	459	30	330
Butland, John. (See Pascoe, Haines, and Butland.)						
Butler, Charles, et al. (See Beam, Henry T., assignor.)						
Butler, Eli T. (See Griscom, McFeely, and Butler.)						
Butler, Eli T., and T. McFeely, assignors to said McFeely, S. E. and W. Griscom, Philadelphia, Pa. Middlings-purifier	311,808	Feb. 3	447	121	30	432
Butler, Francis G., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Creaming-can	321,340	June 30	3211	856	31	1667
Butler, George W., Chicago, Ill. Job-printer's case	326,475	Sept. 15	1666	435	32	1337
Butler, H. S. (See Avery and Osborn, assignors.)						
Butler, H. S. (See Terman, James W., assignor.)						
Butler, Henry T., Spartanburg, S. C. Cotton-chopper	310,493	Jan. 6	421	116	30	89
Butler, Hiram E. (See Smith and Butler.)						
Butler, James D. (See Straw and Butler.)						
Butler, John N., Kingsley, Iowa. Railway snow-excavator	332,876	Dec. 22	2264	625	33	1440
Butler, Jonathan S., Chicago, Ill. Apparatus for carbureting air and gas	312,186	Feb. 10	996	271	30	540
Butler, Joseph J., Cromwell, Ky. Hand-cultivator	312,185	Feb. 10	996	271	30	540
Butler, Norman, Ennis, Mont. Ter. Ore-concentrator	317,621	May 12	935	240	31	700
Butler, Paul, Lowell, Mass. Implement for packing cartridges	312,809	Feb. 24	1838	504	30	713
Butler, Sarah M., Haverhill, Mass. Toy animal	329,436	Nov. 3	14	4	33	507
Butler, Wesley. (See Brokaw and Butler.)						
Butler, William E., Newbern, Tenn. Evaporator for cane-juices	318,866	May 26	2006	601	31	1024
Butler, William H., Brooklyn, assignor to Kinney Tobacco Company, New York, N. Y. Cigarette-case	311,641	Feb. 3	241	68	30	394
Butler, William H., Brooklyn, assignor to Kinney Tobacco Company, New York, N. Y. Cigarette-case	311,642	Feb. 3	242	68	30	394
Butler, William J., Salinas, Cal. Device for taking up lost motion in pitmen	331,865	Dec. 8	921	237	33	1170
Butler, William P., Chicago, Ill. Oil-lamp	314,165	Mar. 17	1528	401	30	1077
Butler, William P., Chicago, Ill. Street-lamp sign	323,850	Aug. 4	599	168	32	636
Butler, William P., Chicago, Ill. Vapor-burning lamp or stove	323,851	Aug. 4	600	169	32	636
Butlin, Charles H., Camborne, county of Cornwall, England. Umbrella-covering for vehicles	311,809	Feb. 3	448	122	30	432
Butman, William H. (See Jenks and Butman.)						
Butt, Bozwell B., Newark, N. J. Spirit-level	320,537	June 23	2184	576	31	1468
Butterbaugh, Eli H. (See Dice, Peter M., assignor.)						
Butterfield, David N., New Boston, N. H., assignor of one-half to H. F. Willard, Cambridge, Mass. Deck	310,877	Jan. 20	917	250	30	185
Butterfield, Finley R., Concord, N. H. Car-coupling	327,066	Sept. 29	2496	652	32	1501
Butterfield, Francis O., Lynn, Mass. Egg and fruit holding implement	319,954	June 16	1351	355	31	1310
Butterfield, Francis O., Lynn, Mass. Strainer for funnels, &c.	324,080	Aug. 11	911	252	32	699
Butterfield, Fred D., et al. (See Reeco, George L., assignor.)						
Butterfield, George F., Stoneham, Mass. Fabric for shoe-soles and other purposes	325,785	Sept. 8	769	192	32	1163
Butterfield, George F., Stoneham, Mass. Boot or shoe sole and heel	326,476	Sept. 15	1667	435	32	1338
Butterfield, Henry W., Griggsville, Ill. Portable fence	323,279	Dec. 29	2280	766	33	1548
Butterfield, James G., et al. (See Randolph, Arthelow M., assignor.)						
Butterfield, William, Auburn, N. Y., assignor to D. M. Osborne and Company, of New York. Grain-binding machine	312,422	Feb. 17	1326	366	30	617
Butterfield, William, assignor to D. M. Osborne & Co., Auburn, N. Y. Cord-holder for self-binders	328,918	Oct. 27	1862	466	33	362
Butterworth, Robert, Boston, Mass., assignor, by mesne assignments, to Fiberlene Collar Company, Portland, Me. Collar	329,812	Nov. 3	521	133	33	603
Butterworth, Robert, Boston, Mass., assignor, by mesne assignments, to Fiberlene Collar Company, Portland, Me. Cuff	329,813	Nov. 3	523	133	33	603
Buttler, William. (See Blair and Buttler.)						
Buttler, William, assignor of one-half to J. H. Blair, Pittsburg, Pa. Glass or vitreous facing for brick fronts	330,957	Nov. 24	2038	551	33	916
Button, Conyer, et al. (See Goodman, Samuel N., assignor.)						
Button, Jesse, New York, N. Y. Rock-drilling machine for Artesian wells	314,793	Mar. 31	2392	633	30	1272
Button, John, Jr., et al. (See Goodman, Samuel N., assignor.)						
Button, John A., Norwich, Conn. Beer-drawing apparatus	326,017	Sept. 8	1057	269	32	1217
Button, Joseph, assignor of one-half to J. Conden, Baltimore, Md. Car-coupling	319,369	June 2	553	150	31	1153
Button, Joseph, assignor of one-half to W. Windus, Baltimore, Md. Car-coupling	330,820	Nov. 17	1850	499	33	874
Buttress, John. (See Asher and Buttress.)						
Butts, J. Belton, Columbus, Ga. Planter, seeder, and fertilizer-distributor	325,393	Sept. 1	943	60, 61	32	1067
Butts, V. Winslow, assignor of one-half to L. W. Ferensen, Hamden, N. Y. Thill-coupling	318,867	May 26	2607	691	31	1027
Butz, Benniville, and O. J. Pfeuger, Allentown, Pa. Making moldings, &c., from paper, &c.	311,409	Jan. 27	1683	459	30	330
Butz, Edward M., Allegheny, Pa. Converter for the manufacture of iron and steel	322,636	Dec. 15	2018	530	33	1371
Butzmühlen, Ewald. (See Clauberg and Butzmühlen.)						
Buxton, Benjamin F., Brookfield, Vt. Clothes-drier	329,690	Nov. 3	269	69	33	556
Buzard, Sam. W., Jamesport, Mo. Check-stamp	331,227	Nov. 24	2403	650	33	982
Buzzard, Samuel W., Jamesport, Mo. Sash-holder	316,737	Apr. 28	2435	634	31	460
Buzzell, Freeman P., Toledo, Ohio. Shoe or gaiter	329,533	Nov. 3	162	38	33	534
Buzzell, James C., Acton, Me. Cattle-fastening	310,994	Jan. 20	1073	292	30	212
Buzzell, John G., Lynn, Mass. Buffing-roll	315,477	Apr. 14	695	181	31	129
Buzzell, John G., Lynn, Mass. Machine-box	317,067	May 5	208	52	31	561
Buzzell, John G., Lynn, Mass. Abrading-disk	317,622	May 12	936	240	31	701
Byam, George A. (See Longmore, Lewis F., assignor.)						
Byam, George A. (See Osgood and Longmore, assignors.)						
Byam, George A., et al. (See Longmore, Lewis F., assignor.)						
Byam, Sewall T. J., New Haven, Conn. Watch-plate	323,822	Aug. 4	601	160	32	636
Byce, Lyman C., and I. L. Dias, deceased, (A. Dias, administratrix), Petaluma, Cal. Heat-regulator	319,064	June 2	161	43	31	1077
Bye, Martin. (See Howe, John C., assignor.)						
Bye, Martin, Worcester, Mass. Roller-skate	332,049	Dec. 8	1195	312	33	1220
Byers, Andrew N., Rising Sun, Ohio. Tile-setting apparatus	319,449	June 9	649	175	31	1179
Byers, Joseph L., Dyars, Iowa. Twine-holder	318,868	May 26	2608	692	31	1027
Byers, Lafayette. (See Chambers and Byers.)						
Byfield, John, Lowell, Mass. Knitting-machine	311,172	Jan. 27	1337	368	30	268

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Byfield, John, Lowell, Mass. Knitting-machine.....	311,173	Jan. 27	1343	{ 369 370 }	30	968
Byfield, John, assignor to Byfield Manufacturing Company, Lowell, Mass. Stop-motion mechanism for knitting-machines.....	328,876	Oct. 20	1789	467	33	342
Byfield Manufacturing Company. (See Byfield, John, assignor.)						
Bygate, William Y. (See Hubbs and Bygate.)						
Byler, Tyre A., San Francisco, Cal. Coffee-pot.....	313,469	Mar. 10	604	156	30	898
Byllesby, Henry M., New York, N. Y. System of electrical distribution.....	329,621	Nov. 3	269	70	33	556
Bynon, Charles P., and J. Stewart, Jr., Yonkers, N. Y. Lamp attachment.....	312,810	Feb. 24	1840	505	30	713
Byram, Frank A., Philadelphia, Pa. Cash and message carrier.....	320,846	June 23	2572	680	31	1543
Byrd, Thomas E., et al. (See Nutting, Adrain, assignor.)						
Byrkit, Edwin M., assignor of one-half to J. H. Murry and A. A. Adair, Indianapolis, Ind. Combined wooden sheathing and lath.....	314,514	Mar. 24	1998	533	30	1173
Byrne, Edward A., and J. P. Lenahan, Cincinnati, Ohio. Beer-faucet.....	325,316	Sept. 1	115	33	32	1037
Byrne, John J., Chicago, Ill. Thermostat for fire-alarms.....	322,417	July 21	1355	354	32	263
Byrne, Joseph, Chicago, Ill. Bottle-stopper.....	320,457	June 23	2083	549	31	1450
Byrne, Joseph W., Boston, Mass. Oscillating water-meter.....	332,637	Dec. 15	2020	530	33	1371
Byrne, Patrick, Nashville, Tenn. Spring-motor.....	312,703	Feb. 24	1698	467	30	688
Byrne, Samuel H., Brighouse, county of York, England. Machinery for the manufacture of wire.....	319,556	June 9	795	211	31	1904
Byrne, Samuel H., Brighouse, county of York, England. Apparatus for drawing wire.....	331,680	Dec. 1	661	163	33	1114
Byron, Thomas F., et al. (See Bradshaw, John A., assignor.)						
Bywater, Joseph K., Paris, Tex. Car-coupling.....	310,788	Jan. 13	803	218	30	158
Cabell, Milton S., et al. (See Cabell, Samuel G., assignor.)						
Cabell, Milton S., and W. W. Abney, assignors of one-third to R. W. Hanna, Quincy, Ill. Fluid-pressure regulator.....	322,519	July 21	1505	396	32	290
Cabell, Samuel G., Washington, D. C., assignor of two-thirds to R. W. Hanna and M. S. Cabell, Quincy, Ill. Lubricator.....	320,538	June 23	2185	576	31	1468
Cable, E. J., et al. (See Newhouse, Frederick, assignor.)						
Cable, F. L., et al. (See Newhouse, Frederick, assignor.)						
Cable, John A. (See Randolph, David S., assignor.)						
Cables, Hartley A. (See Oehrl, William E. and A. C., assignors.)						
Cables, Hartley A., Philadelphia, Pa. Fastener for neckties, &c.....	313,171	Mar. 3	184	45	30	811
Cables, Hartley A., Philadelphia, Pa. Neck-wear.....	314,794	Mar. 31	2304	634	30	1273
Cables, Hartley A., Philadelphia, Pa. Separable button.....	314,705	Mar. 31	2395	634	30	1273
Cabot Electric Light and Manufacturing Company of New York. (See Cabot, John A., assignor.)						
Cabot, John A., New York, N. Y. Telephone-switch.....	324,358	Aug. 18	1301	354	32	781
Cabot, John A., New York, N. Y., assignor to Cabot Electric Light and Manufacturing Company of New York. Alternating switch for incandescent lamps.....	324,979	Aug. 25	2153	588	32	946
Cabot, John A., New York, N. Y., assignor to Cabot Electric Light and Manufacturing Company of New York. Safety device for incandescent lamps.....	324,980	Aug. 25	2154	588	32	946
Cabot, John A., New York, N. Y., assignor to Cabot Electric Light and Manufacturing Company of New York. Making incandescents.....	324,981	Aug. 25	2154	589	32	946
Cabot, John A., assignor of one-half to C. G. Worden, New York, N. Y. Gas-lighter.....	325,786	Sept. 8	729	192	32	1163
Cabot, Samuel, Jr., Boston, Mass. Gas-pressure regulator.....	315,717	Apr. 14	1028	270	31	192
Cadbury, Joel, and J. G. Rollason, Birmingham, county of Warwick, England; said Rollason assignor to said Cadbury. Suspenders.....	312,083	Feb. 10	841	229	30	513
Cadby, John W., Troy, N. Y. Attaching bosoms to shirts.....	323,783	Aug. 4	520	147	32	630
Cadden, Anthony P., Baltimore, Md. Adjustable derrick.....	320,374	Nov. 17	1284	341	33	766
Caddick, Edward, et al. (See Tickle and Leonardt, assignors.)						
Cadman, Alexander W., Edgewood, Pa. System of conveying and distributing gas.....	312,811	Feb. 24	1841	506	30	713
Cadman, Alexander W., Sterrett, Pa. Gas-regulator.....	329,011	Oct. 27	2014	523	33	388
Cadman, George L. (See Cadman, Isaac P., assignor.)						
Cadman, Isaac P., assignor of one-half to G. L. Cadman, Beloit, Wis. Wind-wheel.....	328,636	Oct. 20	1741	454	33	333
Cadvallader, Frank, Philadelphia, Pa. Hanger for shaftings, pipes, &c.....	325,051	Aug. 25	2248	617	32	963
Cadwell, Jonathan W. (See Cadwell, Nelson A. and J. W.)						
Cadwell, Lydia J., Chicago, Ill. Apparatus for treating the products of rendering-tanks.....	320,911	June 30	2667	709	31	1506
Cadwell, Marvin S., assignor to M. Cadwell, Lansing, Mich. Handle for pitchforks, &c.....	327,522	Oct. 6	16	4	33	5
Cadwell, Mary. (See Cadwell, Marvin S., assignor.)						
Cadwell, Nelson A. and J. W., Springfield, Mass. Letter-box.....	326,948	Sept. 29	2353	615	32	1475
Cadwell, Warren W., et al. (See Cadwell, William H., assignor.)						
Cadwell, William H., assignor to himself, W. W. Cadwell, and L. C. Riggs, Chicago, Ill. Folding crate.....	328,381	Oct. 13	1145	295	33	216
Cadwgan, Thomas C., assignor of one-half to B. F. K. Jennings, Springfield, Ohio. Feed-mill.....	323,561	Aug. 4	235	69	32	565
Cady, Edward B., Jackson, Mich. Bustle.....	322,678	July 21	1704	452	32	327
Cady, Henry G., Pine Bluff, Ark. Cotton-chopper.....	314,104	Mar. 17	1451	379	30	1063
Cady, Henry G., Pine Bluff, Ark. Wedge for vehicle-wheels.....	323,910	Aug. 11	685	192	32	659
Cady, Henry G., Pine Bluff, Ark. Wagon-jack.....	329,999	Nov. 10	782	201	33	658
Cady, John W., Hamilton, R. I. Churn.....	323,784	Aug. 4	520	147	32	630
Caezar, Gustav, et al. (See Caezar, Peter J., assignor.)						
Caezar, Peter J., assignor to himself, G. Caezar, M. and L. M. Newman, Chippewa Falls, Wis. Pump-faucet.....	319,557	June 9	797	211	31	1904
Caffrey, Francis. (See Pickett, Alva L., assignor.)						
Caffrey, Richard, White Haven, Pa. Track-gage.....	326,271	Sept. 15	1412	367	32	1289
Cahill, William J., assignor of one-half to W. B. Bull, Lenox, Mass. Wash-basin, &c.....	323,911	Aug. 11	686	192	32	659
Cahoone, Charles E. (See Cahoone, Raymond W., assignor.)						
Cahoone, Charles E., Newark, N. J. Harness-saddle.....	318,232	May 19	1746	467	31	862
Cahoone, Edwin R., Newark, N. J. Mucilage-bottle.....	326,949	Sept. 29	2355	616	32	1475
Cahoone, Raymond W., Philadelphia, Pa., assignor to C. E. Cahoone, Newark, N. J. Harness-saddle.....	331,661	Dec. 1	662	164	33	1114
Cailleaux, Charles. (See Cailleaux, Paul and C.)						
Cailleaux, Paul and C., Gironville, Seine-et-Oise, France. Apparatus for filling sacks and weighing the contents thereof.....	329,712	Nov. 3	386	99	33	579
Cain, Cornelius H., St. Louis, Mo. Vehicle-spring.....	322,877	Dec. 22	2365	625	33	1440
Cain, Edwin S., Hillsdale, Ill. Weight-motor.....	313,708	Mar. 10	905	226	39	965
Cain, Jacob, assignor to Fort Wayne Electric Light Company, Fort Wayne, Ind. Electric arc-lamp regulator.....	333,194	Dec. 29	2908	735	33	1526
Cain, Nicholas, Detroit, Mich. Propeller-wheel.....	310,789	Jan. 13	804	218	30	158
Cain, Robert D. (See Buckler, Cain, Taubert, and Felzer.)						
Cain, Robert M., Kokomo, Ind. Oven for gas, oil, and vapor stoves.....	322,418	July 21	1357	354	32	964
Cain Tap, Die, and Bolt Company, Tubal. (See Patton, Jefferson, assignor.)						
Caine, Carlos, assignor of one-half to T. E. Clark, Minneapolis, Minn. Train-signal.....	317,790	May 12	1055	270	31	723

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Cairns, Thomas. (See Pruim, Hiram P., assignor.)						
Calahan, Edward A. (See Delaney and Calahan.)						
Calaway, Carmi A., Austintown, Ohio. Road-grader	325,156	Aug. 25	2376	654	32	987
Calder, James, and R. W. Courtney, Richmond, Va. Implement for applying baggage and car seals	319,450	June 9	650	175	31	1178
Caldera, Luigi, Turin, Italy. Piano-forte	315,905	Apr. 14	1291	337	31	240
Calderwood, Harvey S. (See Dean, Chester F., assignor.)						
Caldwell, Alonzo, Baltimore, Md. Combined pill tile and cutter	320,216	June 16	1701	451	31	1373
Caldwell, Benjamin F., Wheeling, W. Va. Cap and anchor for metallic roofing	318,352	May 19	1911	515	31	891
Caldwell, Benjamin F., Wheeling, W. Va. Device for bending roofing-plates	329,713	Nov. 3	388	99	33	579
Caldwell, Benjamin F., assignor of one-half to A. Wally, Montrose, Mo. Bracket	325,196	Aug. 25	9434	669	32	998
Caldwell, Charles H. (See Caldwell, William C. and C. H.)						
Caldwell, Henry P., et al. (See Strong, Henry C., assignor.)						
Caldwell, John, et al. (See Alden, Charles E., assignor.)						
Caldwell, William C. and C. H., Monroe, Mich. Folding clothes-line supporter	326,623	Sept. 22	1869	489	32	1381
Caldwell, William D., and J. C. Hendricks, Crawfordville, assignors of one-half to M. A. McCoid, Fairfield, Iowa. Harrow	328,108	Oct. 13	726	205	33	149
Calif, Edwin M., and T. L. Tracy, Missouri Valley, Iowa. Corn-planter	321,186	June 30	3027	802	31	1632
Calley, Joseph W., North Easton, Mass. Combined rake and hoe	322,254	July 14	1139	297	32	217
Calley, Edward L., Philadelphia, assignor to G. W. Floyd, I. I. Wells, I. Brooke, C. W. and W. Wagner, I. Hallman, and D. Finkbner, Royer's Ford, Pa. Heating-stove	321,681	July 7	361	96	32	68
Calhoun, James G. (See Calhoun, Samuel and J. G.)						
Calhoun, Noah W., and J. G. Chambers, Lena, Ill.; said Calhoun assignor to said Chambers. Leather-punching machine	313,172	Mar. 3	185	45	30	811
Calhoun, Samuel and J. G., Edinburg, Ohio. Fence	317,623	May 12	937	240	31	701
Calhoun, Walter, Troy, assignor of one-half to J. Pennie, Jr., Albany, N. Y. Metallic bung-bush	322,255	July 14	1140	298	32	217
California Perfection Enel Manufacturing Company. (See Bodwell, John D., assignor.)						
Calkins, Almon B., Medford, assignor to Ashcroft Manufacturing Company, Boston, Mass. Steam-engine indicator	330,968	Nov. 24	2039	551	33	917
Calkins, Henry, and S. H. Bunten, Bradshaw, Nebr. Washing-machine	328,285	Oct. 13	1002	261	33	190
Call, Amos, assignor to Bemis & Call Hardware and Tool Company, Springfield, Mass. Wrench	317,923	May 12	1330	357	31	776
Call, Amos, assignor to Bemis & Call Hardware and Tool Company, Springfield, Mass. Wrench	317,924	May 12	1331	358	31	776
Call, James, Boston, Mass. Boot-treating machine	324,982	Aug. 25	2155	589	32	946
Call, Manfred, Richmond, Va. Plow	314,362	Mar. 24	1791	476	30	1136
Callahan, Charles, et al. (See Ring, Denis J., assignor.)						
Callahan, Cornelius, Chelsea, Mass. Knitting-machine	311,410	Jan. 27	1684	459	30	330
Callahan, Cornelius, Chelsea, Mass. Nozzle	311,730	Feb. 3	335	93	30	412
Callahan, George R., et al. (See Keller, William N., assignor.)						
Callahan, William P., and T. De Armon, Dayton, Ohio. Box for oil-presses	319,673	June 9	950	252	31	1232
Callan, Frank, Binghamton, assignor of one-half to C. Cook, New York, N. Y. Tongue-support for vehicles	321,062	June 30	2899	770	31	1608
Callander, Austin, Clinton, Ontario, Canada. Iron harrow	339,675	Nov. 17	1660	447	33	839
Callaway, James W., Temple, Tex. Door-check	315,718	Apr. 14	1029	270	31	192
Callow, John J., Cleveland, Ohio. Stencil-holder	313,470	Mar. 10	605	156	30	898
Callow, John J., Cleveland, Ohio. Manufacturing perforated metallic goods	313,905	Mar. 10	1044		30	980
Calnan, James P., Clinton, Iowa. Two-wheeled vehicle	317,925	May 12	1332	358	31	776
Calnan, James P., Clinton, Iowa. Two-wheeled vehicle	331,375	Dec. 1	168	43	33	1028
Calverley, Joseph, et al. (See Marion, Joseph, assignor.)						
Cambria Iron Company. (See Short, John N., assignor.)						
Cambria Iron Company. (See Williams, Lewis, assignor.)						
Cambridge, William J., assignor to J. C. Chapman, Boston, Mass. Valve	330,676	Nov. 17	1661	447	33	839
Cambridgeport Diary Company. (See Wade and Stone, assignors.)						
Cameron, Donald R., Military Barrack, Sheerness, county of Kent, England. Coupling to communicate rotary motion between axes	321,579	July 7	233	62	32	45
Cameron, Ezra G., assignor of one-half to A. L. Hines and D. B. Green, Charlotte, Mich. Reclining-chair	329,272	Oct. 27	2381	616	33	456
Cameron, John F., New York, N. Y. Scrubbing-machine	311,810	Feb. 3	440	122	30	433
Cameron, Joseph, Cynthiana, Ohio. Dumping-wagon	329,714	Nov. 3	389	99	33	579
Cameron, Parley W. (See McDuff and Doherty, assignors.)						
Cameron, William D. (See Rice, W. Billings and M. H., assignors.)						
Camp, Calvin W., Camptown, Pa. Combined truck and bag-holder	315,719	Apr. 14	1030	270	31	193
Camp, Charles B., Sturgis, Mich., assignor to Perfection Manufacturing Company, Toledo, Ohio. Cot	314,997	Apr. 7	15	4	31	5
Camp, Cyrus L., Tremont, Ill. Carpet-stretcher	329,136	Oct. 27	2191	589	33	419
Camp, David, Wakefield, Mich. Fence	310,559	Jan. 13	514	141	30	105
Camp, David C. and H. P., Galneville, Ga. Churn-motor	353,988	Dec. 29	8068	800	33	1573
Camp, Edgar B. (See Oakes and Camp.)						
Camp, Edmond N., Pickett, Ga. Mortising and boring machine	317,721	May 12	1056	275	31	724
Camp, Garvin S. D., Ray, Ill. Churn	314,796	Mar. 31	2397	634	30	1274
Camp, Henry P. (See Camp, David C. and H. P.)						
Camp, Myron, Sedgwick, Kans. Door-shield	327,228	Sept. 29	2717	707	32	1540
Camp, Theron H., et al. (See Walter, Henry C., assignor.)						
Campany, Milton E. (See Vanderbilt and Campany.)						
Campany, Milton E., assignor of one-half to F. W. Thompson, Muskegon, Mich. Hame-fastener	323,853	Aug. 4	602	169	32	636
Campbell, Alexander, Brooklyn, N. Y. Pipe-flanging machine	323,109	July 28	2319	613	32	445
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Grip-motion for printing-machines	331,682	July 7	362	96, 97	32	68
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Superimposing and folding machine	321,683	July 7	366	97, 98	32	69
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Rotary folding-machine	321,684	July 7	369	98, 99	32	69
Campbell, Andrew, Brooklyn, assignor to J. and E. McLoughlin, New York, N. Y. Delivery apparatus for printing-machines	323,394	Aug. 4	14	4	32	525
Campbell, Andrew C., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Feeding mechanism for sewing-machines	331,183	Nov. 24	2335	632	33	971
Campbell, Andrew D. (See Armstrong, Samuel, assignor.)						
Campbell, Andrew H., Philadelphia, Pa. Scaffold-iron	315,720	Apr. 14	1031	271	31	193

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Campbell, Angus. (See Durkee and Campbell.)						
Campbell, Charles. (See Adams, George B., assignor.)						
Campbell, Charles B. and W. H., Buffalo, N. Y. Machine for grooving metal rolls	331,613	Dec. 1	551	{ 135 136 137 }	33	1094
Campbell, George P., assignor of one-half to J. O. Sloan, Cincinnati, Ohio. Car-brake	317,088	May 5	209	53	31	561
Campbell, Henry F. (See Mills, George H., assignor.)						
Campbell, Henry F., Concord, N. H. Electric circuit	313,053	Mar. 3	18	5	30	782
Campbell, Henry F., and G. H. Mills, Concord, N. H. Device for supporting saws while being ground	326,397	Sept. 15	1574	409	32	1320
Campbell, Henry M., Bay City, Mich. Packing deep-well pumps	318,447	May 26	2029	547	31	922
Campbell, Howard, assignor to Gaar, Scott & Company, Richmond, Ind. Recleaning attachment for clover thrashing and hulling machines	315,906	Apr. 14	1205	{ 337 338 }	31	241
Campbell, Howard, and H. N. Land, assignors to Gaar, Scott & Company, Richmond, Ind. Platform for traction-engines	317,722	May 12	1058	276	31	724
Campbell, Hugh A., Antioch, assignor to A. and W. McQueen, Plainview, N. C. Fertilizer-distributor and cultivator	312,329	Feb. 17	1194	327	30	585
Campbell, Irvin K., assignor to Oliver Brothers & Phillips, Pittsburg, Pa. Die for single-tree straps	312,966	Feb. 24	2040	557	30	749
Campbell, James, Harrison, Ohio. Combined corn-planter and fertilizer-distributor	324,983	Aug. 25	2156	589	32	846
Campbell, James A., Brenham, Tex. Nut-lock	310,985	Jan. 20	1074	299	30	212
Campbell, James B., Normanda, Ind. Gate	323,395	Aug. 4	16	5	32	526
Campbell, James E. (See Kramer, Charles P., assignor.)						
Campbell, James E. (See Kramer and Snider, assignors.)						
Campbell, James L., West Elizabeth, Pa. Thermostat	316,738	Apr. 28	2436	{ 634 635 }	31	461
Campbell, John, assignor to A. Rodgers, Muskegon, Mich. Log-loader	320,217	June 16	1701	452	31	1373
Campbell, John D., New York, N. Y. Saddle for locomotive-engines	322,002	Oct. 13	643	170	33	123
Campbell, John R., Troy, Minn. Bag filling, weighing, and registering machine	321,793	July 7	521	138	32	97
Campbell, John T., Easton, Ill. Railway	310,878	Jan. 20	918	250	30	185
Campbell, John T., Rockville, Ind. Revolving cultivator	329,137	Oct. 27	2193	569	33	420
Campbell, Joseph O. C., et al. (See Ebel, John V., assignor.)						
Campbell, London, Alexandria, Va. Apparatus for lighting the fires of steam fire-engines	315,791	Apr. 14	1032	271	31	193
Campbell, Malcolm, Amesbury, Mass. Hinge	332,487	Dec. 15	1799	473	33	1332
Campbell, Manson. (See Atwell and Floeter, assignors.)						
Campbell Printing Press and Manufacturing Company. (See Scheldell, John S., assignor.)						
Campbell, Robert, Allegheny, Pa. Device for converting motion	322,679	July 21	1705	452	32	327
Campbell, Robert, Allegheny, assignor to G. L. Peabody, Pittsburg, Pa. Gearing	324,455	Aug. 18	1432	391	32	804
Campbell, Samuel R., Buffalo, N. Y. Roller-mill	310,374	Jan. 6	925	78, 79	30	55
Campbell, Samuel R., New York Mills, N. Y., assignor of one-half to G. Draper & Sons, Hopedale, Mass. Warp-slasher	310,790	Jan. 13	805	218	30	158
Campbell, Thomas. (See Webber, Charles C., assignor.)						
Campbell, Thomas J., assignor of one-half to M. P. Breckenridge, Westfield, Mass. Wrench	322,256	July 14	1141	298	32	217
Campbell, William A., East Saginaw, Mich. Balance slide-valve	324,299	Aug. 11	1219	332	32	758
Campbell, William A., assignor to Marinette Iron Works Company, Marinette, Wis. Gang-edger	312,250	Feb. 17	1079	{ 297 298 }	30	564
Campbell, William A., assignor of one-half to A. F. Bartlett & Co., East Saginaw, Mich. Safety-valve	314,649	Mar. 31	2181	578	30	1233
Campbell, William A., assignor of one-half to A. F. Bartlett & Co., East Saginaw, Mich. Steam-brake for saw-mill carriages	314,650	Mar. 31	2182	578	30	1233
Campbell, William A., assignor of one-half to A. F. Bartlett & Co., East Saginaw, Mich. Reversing-valve	324,222	Aug. 11	1120	304	32	738
Campbell, William A., assignor of one-half to A. F. Bartlett & Co., East Saginaw, Mich. Feed mechanism for saw-mill carriages	324,223	Aug. 11	1121	304	32	738
Campbell, William H. (See Campbell, Charles B. and W. H.)						
Campbell, William H. H., Wichita, Kans. Shingle and siding gage	315,722	Apr. 14	1033	271	31	193
Campbell, William H. H., Wichita, Kans. Combined hand and foot power	318,353	May 19	1912	515	31	891
Campbell, William M., London, England. Toy	320,429	June 16	2036	{ 534 535 }	31	1432
Campbell, William N., assignor to Adams & Westlake Manufacturing Company, Chicago, Ill. Flour-sifter	310,721	Jan. 13	807	219	30	158
Campfield, Hampton R., Susquehanna, Pa. Sand-feeder for locomotives	322,156	July 14	1023	266	32	195
Canaday, W. Scott, assignor of one-half to R. B. Carson, New Castle, Ind. Roller-skate	327,523	Oct. 6	17	4	33	5
Canda, Ferdinand E., New York, N. Y. Anti-friction material and journal or other bearing	313,916	Mar. 17	1208		30	1018
Candee, Charles E., New York, assignor of one-half to A. G. Story, Little Falls, N. Y. Car-truck	310,986	Jan. 20	1075	293	30	212
Candee, Charles E., New York, assignor of one-half to A. G. Story, Little Falls, N. Y. Car-brake	312,429	Feb. 17	1328	366	30	611
Candee, Charles E., New York, assignor of one-half to A. G. Story, Little Falls, N. Y. Journal-bearing for car-axles	312,430	Feb. 17	1329	366	30	612
Candee & Co., L. (See Elliott, Lewis, assignor.)						
Candee & Co., L. (See Watkinson, George, assignor.)						
Canfield, Charles G. (See Leavitt and Canfield.)						
Canfield, Isaac A., assignor to Canfield Rubber Company, Middletown, Conn. Apparatus for the manufacture of arm-pit dress-shields	317,624	May 12	938	{ 240 241 }	31	701
Canfield, Isaac A., assignor to Canfield Rubber Company, Middletown, Conn. Manufacturing dress-shields	317,625	May 12	939	241	31	701
Canfield, Isaac A., assignor to Canfield Rubber Company, Middletown, Conn. Dress-shield	317,626	May 12	940	241	31	701
Canfield, Patrick C., Ashtabula, Ohio. Plasterer's hoe	317,502	May 12	792	200	31	673
Canfield Rubber Company. (See Canfield, Isaac A., assignor.)						
Cannan, Matthew C., deceased; J. R. Coolbaugh, Wysox, Pa., administrator. Car-coupling	318,958	June 2	38	10	31	1055
Canniff, George F., Jr., Cleveland, Ohio. Fire-hose bridge for railway-tracks	324,224	Aug. 11	1122	305	32	739
Canning, Emile C. (See Papineau, Frank J., Jr., assignor.)						
Cannon, Alfred, High Spire, Pa. Vegetable-cutter	330,560	Nov. 17	1522	407	33	810
Cannon, Edward A., Poncauksee, Wis. Label-holder	327,763	Oct. 6	338	87	33	59
Cannon, Edward W., and E. H. Jones, Milwaukee, Wis. Vehicle-top	320,332	June 16	1888	496	31	1405
Cannon, Edwin, Jr. (See Bridgen and Cannon.)						
Cannon, George W., Poughkeepsie, N. Y. Nail-set	317,970	May 19	1406	377	31	798
Cannon, William G., London Road, Southwark, county of Surrey, England. Steam-radiator	310,375	Jan. 6	287	79	30	55
Canterbury, George W., Bondsville, Mass. Bottle-stopper	326,272	Sept. 15	1412	367	32	1229

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Canterbury, Richard A. (See Leager, Pierce, and Canterbury.)						
Canton Glass Company. (See Barker, David, assignor.)						
Cantrill, James E., <i>et al.</i> (See Welling, John E., assignor.)						
Cantrill, James E., assignor of two-thirds to J. E. Welling and J. Webb, Georgetown, Ky. Stock-car	313,173	Mar. 8	187	45, 46	30	811
Capell, George M., Passenham, county of Northampton, England. Rotary fan	324,006	Aug. 11	807	{ 224 225 }	32	681
Capewell, George J. (See Turner and Capewell.)						
Capital City Tool Company. (See Coon, James H., assignor.)						
Caples, Henry L., and W. W. Lewis, Kansas City, Mo. Conduit for electrical conductors	329,887	Nov. 10	635	161	33	630
Capron, Matoren R. (See Sumner, James J., assignor.)						
Car-Skaden, Delos, Chicago, Ill. Pneumatic separator	310,251	Jan. 6	112	31, 32	30	23
Car-Skaden, Delos, Chicago, Ill. Separator	329,964	Nov. 10	731	187	33	648
Carbon Iron Company. (See Eames, Charles J., assignor.)						
Carbonate Mining Company. (See Davis, Robert W., assignor.)						
Card, Augustus M., assignor of one-half to J. A. Skelton, Buffalo, N. Y. Nut-lock	325,569	Sept. 1	495	124	32	1110
Card, Edward, Pawtucket, R. I. Grate	314,220	Mar. 24	1509	422	30	1100
Card, George P., assignor of one-fourth to C. B. Parker, Olean, N. Y. Wagon-brake	322,768	July 21	1849	491	32	353
Card, Joseph P., St. Louis, Mo. Preserving wood	317,440	May 5	700		31	649
Card, Martin. (See Chappell, Benjamin F., assignor.)						
Card, Miles H., and J. Place, Freeport, Ill. Kitchen-cabinet	331,766	Dec. 8	723	198	33	1146
Card, William L., La Crosse, Wis. Ore-separator	320,756	June 23	2461	652	31	1522
Cardell, Morton L., Hancock, Mich. Bouquet-holder	314,486	Mar. 24	1872	496	30	1152
Cardell, Morton L., Hancock, Mich. Bouquet-holder	331,614	Dec. 1	563	137	33	1096
Carden, John, Jr., Afton, Iowa. Check-row planter	313,806	Mar. 10	1045	268	30	960
Carder, Floyd N. (See James and Carder.)						
Cardwell, George A., Brooklyn, assignor to himself, F. K. Fitch, New York, N. Y., and J. T. Murray, Newark, N. J. Telegraphic and telephonic instrument protector	311,957	Feb. 10	670	184	30	480
Cardwell, George A., Brooklyn, assignor of two-thirds to F. K. Fitch, New York, N. Y., and J. T. Murray, Newark, N. J. Harmonic printing-telegraph	315,121	Apr. 7	176	43	31	32
Cardwell, George A., Brooklyn, assignor of two-thirds to F. K. Fitch, New York, N. Y., and J. T. Murray, Newark, N. J. Harmonic printing-telegraph	315,122	Apr. 7	178	44	31	33
Careaga y Saenz, Louis G., Puebla, Mexico. Apparatus for transmitting power	321,083	June 30	2900	771	31	1608
Carey, Augustus C., Boston, Mass. Barrel	312,967	Feb. 24	2041	557	30	749
Carey, Augustus C., Boston, Mass. Apparatus for filling and heading barrels	312,968	Feb. 24	2042	557	30	749
Carey, Dominick M., Canton, Ohio. Dumping-car	315,123	Apr. 7	180	44	31	33
Carey, Elias R., Philadelphia, Pa. Spring-roller curtain-fixture	322,347	July 14	1257	329	32	229
Carey, Eustace, H. Gaskell, Jr., and F. Hurter, Widnes, county of Lancaster, England. Making sodium sulphite	321,341	June 30	3213	857	31	1667
Carey, J. E. (See Arnold, Alonzo B., assignor.)						
Carey, John E., Gladbrook, Iowa. Measuring-faucet	325,317	Sept. 1	117	33	32	1037
Carey, Julian E., New York, N. Y. Electric-clock movement	316,112	Apr. 21	1575	410	31	299
Carey, Wilson W., Lowell, Mass. Pulley	322,696	July 28	2016	533	32	389
Cargay, Benjamin F. (See Cruzan and Cargay.)						
Cargill, Frank R., and W. V. Kent, Chicago, Ill. Metallic floor and surface	329,012	Oct. 27	2017	523	33	389
Carhart, Edwin M., Providence, R. I. Water-wheel	318,969	May 26	2608	692	31	1025
Carhart, Edwin M., Providence, R. I. Ore-crushing machine	332,488	Dec. 15	1800	473	33	1332
Carhart, Edwin M., Providence, R. I., assignor of one-half to E. Holmes, Brooklyn, N. Y. Support for electric cables	324,225	Aug. 11	1123	305	32	730
Carhuft, Elias R., Newark, N. J. Apparatus for the manufacture of prussiate of potash	310,376	Jan. 6	288	79	30	55
Caria, W. I. (See Keavy, Thomas E., assignor.)						
Caria, William I. (See Keavy, Thomas E., assignor.)						
Carleton, Charles, Lake, Ill. Attachment for connecting coil-springs	325,818	Sept. 8	817	204	32	1172
Carleton, Charles, assignor to Carleton Spring Bed Company, Chicago, Ill. Spring-bed bottom	314,427	Mar. 24	1872	499	30	1152
Carleton, Cyrus, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Hair-clipping machine	321,685	July 7	373	99	32	70
Carleton Spring Bed Company. (See Carleton, Charles, assignor.)						
Carleton, William E., <i>et al.</i> (See Bogan, James F., assignor.)						
Carlewitz, August, Newark, N. J. Cornice and ceiling decoration	323,110	July 28	2321	615	32	446
Carley, John, <i>et al.</i> (See Rea, John W., assignor.)						
Carlie, John H., Greeley, Kans. Combined gate-hinge and roller	319,065	June 2	162	43	31	1077
Carlile, William S. (See Shaw, Carlile, and Dann.)						
Carlin, Asa, Gonten, Mo. Harrow	319,451	June 9	651	176	31	1178
Carlin, Thomas H. (See Cridge and Carlin.)						
Carlin, Thomas H., Allegheny, Pa. Valve-gearing for steam-engines	316,739	Apr. 28	2439	635	31	461
Carlin, Thomas H., Allegheny, Pa. Grinding or crushing mill	333,369	Dec. 29	3069	{ 800 801 }	33	1573
Carlin, William J., Allegheny, Pa. Friction-drum	315,239	Apr. 7	364	.89	31	66
Carlin, William L. (See Flater, Henry, assignor.)						
Carlisle, William S., assignor to Davis Sewing Machine Company, Watertown, N. Y. Mechanical movement	317,723	May 12	1059	276	31	724
Carll, Charles W., Camden, N. J. Chimney-cap	317,294	May 5	496	{ 125 126 }	31	614
Carlough, Daniel. (See Cooke and Carlough.)						
Carlough, Daniel, Paterson, N. J. Car-coupling	325,819	Sept. 8	818	205	32	1172
Carlson, Carl A., Boston, Mass. Valve for steam-engines	326,398	Sept. 15	1576	{ 409 410 }	32	1321
Carlson, Carl E., <i>et al.</i> (See Holmberg, Gustaf L., assignor.)						
Carlson, Edward, San Francisco, Cal. Portable spool-holder	325,655	Sept. 8	584	148	32	1131
Carlson, Nels. (See Morris, Robert H., assignor.)						
Carlton, F. M. (See Cook, Emmanuel T., assignor.)						
Carlton, James, assignor of one-half to E. M. Tyler, Willow, Cal. Adjustable elevator-support for derrick-wagons	319,066	June 2	163	44	31	1077
Carlyle, George, assignor of three-fourths to L. A. C. G. W., and J. W. Wagner, Adrian, Mich. Manufacture of pearl buttons	311,958	Feb. 10	671	184	30	481
Carman, Alvin O., Pottersville, Mich. Grain-binding harvester	318,953	June 2	20	6, 7	31	1052
Carman, Alvin O., Pottersville, Mich. Self-binding harvester	318,954	June 2	27	7, 8	31	1053
Carman, William W., Exeter, N. H. Steam-heating radiator	316,522	Apr. 28	2129	560	31	405
Carman, William W., Exeter, N. H. Steam-boller	317,503	May 12	783	200	31	673
Carmichael, Alexander, La Crosse, Wis. Saw-swage	316,113	Apr. 21	1578	410	31	299
Carmichael, James, Oshawa, Ontario, Canada. Cinder-sifter	313,054	Mar. 3	20	5	30	782
Carmont, William H. (See McQueen and Carmont.)						
Carmont, William H., Manchester, county of Lancaster, England. Device for setting india-rubber tires	315,240	Apr. 7	365	90	31	66

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Carnahan, Cyrus M., Pittsburg, Pa. Machine for splitting bars and sheets of iron or steel.	314,921	Mar. 24	1000	422	30	1100
Carnahan, Cyrus M., Pittsburg, Pa. Car-brake	322,299	July 28	2017	533	32	389
Carnahan, Cyrus M., Pittsburg, Pa. Punching-machine.	336,930	Sept. 29	2336	616	32	1475
Carnell, Harry G., Dayton, Ohio. Grip for ice-shavers.	320,624	June 23	2302	608	31	1490
Carnes, Serena M., New York, N. Y. Hinge-lock for shutters.	314,105	Mar. 17	1452	380	30	1063
Carney, Charles J. (See Martignoni and Carney.)						
Carney, Francis J., assignor to himself and J. Reid, New York, N. Y. Water-tank.	332,489	Dec. 15	1802	473	33	1333
Carney, Peter, assignor to J. L. Mott Iron Works, New York, N. Y. Cistern for water-closets.	320,625	June 23	2303	608	31	1490
Carnrick, John, New York, N. Y. Medicinal emulsion	327,229	Sept. 29	2717		32	1541
Carnrick, John, New York, N. Y. Medicinal emulsion	327,230	Sept. 29	2718		32	1541
Carnrick, John, New York, N. Y. Medicinal emulsion	327,231	Sept. 29	2719		32	1541
Carnrick, John, New York, N. Y. Medicinal emulsion	327,232	Sept. 29	2720		32	1541
Carnrick, John, New York, N. Y. Medicinal emulsion	327,233	Sept. 29	2721		32	1541
Carpenter, Alice P. (See Carpenter and Wright, assignors.)						
Carpenter, Alice P. (See Wright, Morris S., assignor.)						
Carpenter, Charles C. (See Phillips, Mary, assignor.)						
Carpenter, Charles C., New York, N. Y. Bustle.	324,226	Aug. 11	1124	305	32	739
Carpenter, Charles C., New York, and G. W. Lockwood, Brooklyn, N. Y.; said Lockwood assignor to said Carpenter. Pannier or pannier-skirt	324,300	Aug. 11	1220	332	32	758
Carpenter, Clara J., administratrix. (See Carpenter, James H.)						
Carpenter, Clarence E., Horseheads, N. Y. Catch for jewelry-pins, &c.	396,477	Sept. 15	1668	436	32	1338
Carpenter, Edwin P., Brattleborough, Vt. Reed-organ stop-action	328,647	Oct. 30	1510	392	33	289
Carpenter, Edwin P., and M. S. Wright, assignors to A. P. Carpenter, Foxcroft, Me. Organ-action	326,624	Sept. 22	1869	499 490	32	1381
Carpenter, Elijah, Lafayette, Oreg. Candlestick	316,740	Apr. 28	2440	635	31	461
Carpenter, Francis L., Hartland, Vt. Stove-griddle	316,741	Apr. 28	2441	636	31	461
Carpenter, George A., Limerick, Me. Lantern	316,742	Apr. 28	2442	636	31	462
Carpenter, George O., et al. (See Tirrell, Jacob P., assignor.)						
Carpenter, Jacob A. (See Sourwine and Carpenter.)						
Carpenter, James, Moravia, N. Y. Fence-post anchor	319,558	June 9	799	212	31	1904
Carpenter, James H., deceased, Hyndman, Pa.; C. J. Carpenter administratrix. Gate	328,186	Oct. 13	883	229	33	167
Carpenter, James W. (See Maxon, Thomas, assignor.)						
Carpenter, Oramill C., assignor to N. B. Abbott, Brooklyn, N. Y. Machine for wiring the corks in bottles	318,955	June 2	31	8, 9	31	1054
Carpenter, Robert P., Philadelphia, Pa. Seed case.	323,396	Aug. 4	18	5	32	528
Carpenter, Rolla C., Lansing, Mich. Furnace for steam-boilers	331,277	Dec. 1	16	4	33	1003
Carpenter, Steven L., Moscow, Tenn. Bale-tie	329,013	Oct. 27	2019	584	33	389
Carpenter Straw Sewing Machine Company. (See Hooper, Mary P. C., assignor.) (Re-issue.)						
Carpenter, William, Salida, Colo. Watch-case	322,660	July 21	1705	452	32	327
Carpenter, William B., et al. (See Long, Edwin, assignor.)						
Carpenter, William L. (See Jorgensen, Axel, assignor.)						
Carpenter, William W., and A. S. Dudley, Granville, Ohio. Gate	322,419	July 21	1358	354	32	264
Carpenter, William W., and A. S. Dudley, Granville, assignors to E. P. Dudley, Morrow, Ohio. Fence-post	310,250	Jan. 6	111	31	30	23
Carpentier, Eugène N., Paris, France. Looking-glass	324,227	Aug. 11	1125	306	32	739
Carpinter, Steven L., Rossville, Tenn. Bale-band tightener	313,704	Feb. 24	1699	467	30	688
Carr, Charles and G., Sugar Tree Ridge, Ohio. Truss-bridge	328,758	Oct. 20	1645	429	33	315
Carr Company, A. & W. S. (See Gibson, Charles D. P., assignor.)						
Carr, George. (See Carr, Charles and G.)						
Carr, Harland S., Wymore, Nebr. Churn	316,007	Apr. 21	1429	371	31	272
Carr, James, Manchester, county of Lancaster, England. Woven-tape ladder for Venetian blinds	328,286	Oct. 13	1003	261	33	190
Carr, John A., deceased, Walden, (J. Carr, administratrix,) assignor of one-half to S. M. Disney, Brooklyn, N. Y. Door-hanger	312,969	Feb. 24	2044	558	30	750
Carr, Joseph J., Wilkes-Barré, Pa. Machine for molding wheels	329,814	Nov. 3	594	133 134	33	603
Carr, Julia, administratrix. (See Carr, John A.)						
Carr, Laurence, Shakopee, Minn. Trace-buckle	314,564	Mar. 31	2068	563	30	1213
Carr, Robert S., Hamilton, Ohio. Vehicle-wheel	319,452	June 9	652	176	31	1179
Carr, Robert S., Hamilton, Ohio. Horse hay-rake	327,764	Oct. 6	339	87	33	59
Carr, Robert S., Hamilton, Ohio. Wrench	333,108	Dec. 29	2692	706	33	1505
Carr, Rufus B., Boston, Mass. Electric programme-signal	319,782	June 9	1092	290 291	31	1258
Carr, Rufus B., assignor to E. Howard Watch and Clock Company, Boston, Mass. Watch-man's clock	319,783	June 9	1096	291	31	1258
Carricaburu, Leon B., New York, N. Y. Steam-engine	321,084	June 30	2201	771	31	1609
Carricaburu, Leon B., New York, N. Y. Steam-actuated valve	321,085	June 30	2203	772	31	1609
Carricaburu, Leon B., New York, N. Y. Duplex engine	321,580	July 7	234	62	32	46
Carricaburu, Leon B., New York, N. Y. Steam-actuated valve	321,581	July 7	235	62	32	46
Carrico, Thomas W., San Antonio, Tex. Mold and mold-lifting apparatus for building concrete walls	310,377	Jan. 6	229	79	30	55
Carrico, Thomas W., San Antonio, Tex. Making concrete walls, blocks, &c.	319,390	June 2	554		31	1153
Carrico, Thomas W., San Antonio, Tex. Mold for building concrete walls	331,114	Nov. 24	2239	609	33	954
Carrier, Arthur, Bay City, Mich. Door-spring	321,949	July 14	746	195	32	144
Carrington, James H., New York, N. Y. Mechanical movement	311,643	Feb. 3	243	68	30	395
Carroll, Bradish J., New Brighton, N. Y. Electric marine governor	318,417	May 19	1990	536	31	906
Carroll, Charles D. (See Strickland, Morgan D., assignor.)						
Carroll, Daniel E., New Orleans, La. Flexible match-lighting device	327,656	Oct. 6	213	53	33	38
Carroll, Edgar J. (See Carroll, William T., E. J., and E. H.)						
Carroll, Edward, and P. Ryan, Guelph, Ontario, Canada. Buggy-top	332,878	Dec. 22	2366	626	33	1440
Carroll, Elbert H. (See Carroll, William T., E. J., and E. H.)						
Carroll, Michael, Fredericksburg, Iowa. Washing-machine	324,811	Aug. 25	1922	530	32	904
Carroll, William, and J. Meckison, Columbus, Ohio. Shoulder-brace	330,094	Nov. 10	915	237	33	685
Carroll, William T., Worcester, Mass. Spindle-bolster	333,056	Dec. 22	2608	683	33	1485
Carroll, William T., E. J., and E. H., Worcester, Mass. Top roll for spinning-machines, &c.	330,333	June 16	1889	496	31	1405
Carroll, William T., Worcester, assignor to J. B. Parker Machine Company, Clinton, Mass. Spinning and twisting machine	316,008	Apr. 21	1430	372	31	272
Carroll, William T., Worcester, assignor to G. Draper & Sons, Hopdale, Mass. Spindle-bolster	327,135	Sept. 29	2596	677	32	1517
Carroll, William T., Worcester, assignor to G. Draper & Sons, Hopdale, Mass. Spindle-support for spinning-machines	329,014	Oct. 27	2020	524	33	390
Carroll, William T., Worcester, assignor to Sawyer Spindle Company, Boston, Mass. Spindle and bearing	332,992	Dec. 22	2525	666	33	1470

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Carrothers, George, Piedmont, Ohio. Cultivator-tooth.....	317,971	May 19	1406	378	31	798
Carrothers, George, Piedmont, Ohio. Cultivator.....	330,677	Nov. 17	1662	448	33	840
Carry, Clément. (See Pilet and Carry.)						
Carakadon, Thomas R., Keyser, W. Va. Silo.....	310,378	Jan. 6	290	80	30	56
Carakadon, Thomas R., Keyser, W. Va. Portable building.....	324,456	Aug. 18	1432	{ 391 392 }	{ 32 }	804
Carson, Charles W. (See Friedrich and Carson.)						
Carson, Franklin R., et al. (See Lindgren, George A., assignor.)						
Carson, James L. (See Brooks, Heman P., assignor.)						
Carson, John S. (See Muhl and Carson.)						
Carson, Robert B. (See Canaday, W. Scott, assignor.)						
Carson, Robert J., and W. D. Sherman, Dixon; said Sherman assignor to S. B. Wadsworth, C. D. Etivre, and B. F. Wadsworth, Oregon, Ill. Machine for making drain-tile.....	326,018	Sept. 8	1058	269	32	1217
Cart, Francis G., Charleston, S. C. Collar-button.....	315,907	Apr. 14	1257	338	31	241
Carter, Alba B., Great Falls, N. H., assignor to Eureka Axle Company, Portland, Me. Wheel and axle coupling.....	324,653	Aug. 18	1709	471	32	856
Carter, Alba B., Great Falls, N. H., assignor to Eureka Axle Company, Portland, Me. Wheel and axle coupling.....	324,654	Aug. 18	1711	471	32	856
Carter, Albert S. (See Disston, Thomas S., assignor.)						
Carter, Albert S., Philadelphia, Pa. Chair.....	317,295	May 5	500	126	31	614
Carter, Alfred, Wellington, New Zealand. Pen and pencil holder.....	312,812	Feb. 24	1843	506	30	714
Carter, Caleb H. B., and W. S. Johnson, Omaha, Nebr. Drier.....	321,785	Aug. 4	521	147	32	620
Carter, Charles C., Burton, Ohio. Hand hay-rake.....	323,786	Aug. 4	522	147	32	621
Carter, Charles C., Burton, Ohio. Hand hay-rake.....	321,787	Aug. 4	523	148	32	621
Carter, Charles C., Burton, Ohio. Hand hay-rake.....	323,788	Aug. 4	524	149	32	621
Carter, Charles C., San Francisco, Cal. Smoke-consuming furnace.....	324,532	Aug. 18	1535	{ 423 424 }	{ 32 }	822
Carter, Clement L., Union City, Ind. Machine for shaping post-sawer blades.....	326,399	Sept. 15	1578	410	32	1321
Carter & Co., Rufus, et al. (See Armstrong, John B., assignor.)						
Carter, Daniel A., Camden, N. J. Child's nursery-commode.....	331,866	Dec. 8	922	{ 237 238 }	{ 33 }	1170
Carter, David W., Carrington, Dak. Ter., assignor to J. W. Scott, Listowel, county of Perth, Ontario, Canada. Wheel-harrow.....	324,655	Aug. 18	1712	472	32	856
Carter, Eli C., New York, N. Y. Decorated slate.....	332,050	Dec. 8	1196	312	33	1221
Carter, Ezra W. (See Billings, Carter, and Smith.)						
Carter, Ezra W., Cohoes, N. Y. Filtering-paper.....	324,750	Aug. 18	1828	505	32	879
Carter, Ezra W., and D. R. Smith, Cohoes, N. Y. Filtering-paper.....	313,174	Mar. 3	180	46	30	812
Carter, Francis W., Morgan, Tex. Meat-tenderer.....	315,723	Apr. 14	1034	272	31	193
Carter, Henry C., Montclair, N. J. Wash-board.....	313,653	Mar. 10	841	218	30	943
Carter, Henry C., Montclair, N. J. Wash-board.....	326,400	Sept. 15	1579	410	32	1321
Carter, Hyland M., Cincinnati, Nebr. Hog-feeder.....	324,531	Aug. 18	1534	423	32	822
Carter, James R., et al. (See Coleworthy, Charles W., assignor.)						
Carter, John F., assignor to W. McGeorge, Jr., Philadelphia, Pa. Ore-roasting furnace.....	311,058	Jan. 20	1176	{ 321 322 323 }	{ 30 }	232
Carter, John R., Niagara Falls, N. Y. Machine for numbering paper.....	329,715	Nov. 3	390	100	33	579
Carter, John R., Niagara Falls, N. Y. Sales-book.....	333,890	Dec. 29	3071	801	33	1573
Carter, John W., et al. (See Tirrell, Jacob P., assignor.)						
Carter, Phil. A. (See Hasley, Adam H., assignor.)						
Carter, Philander A., Ashley, Ill. Churn.....	314,797	Mar. 31	2398	634	30	1274
Carter, Robert A. (See Bailey and Carter.)						
Carter, Robert A., Pittsburg, Pa. Flanging-machine.....	313,917	Mar. 17	1210	{ 313 316 }	{ 30 }	1018
Carter, Robert A., Pittsburg, Pa. Flanging-machine.....	313,918	Mar. 17	1213	316	30	1018
Carter, Rodney F., South Ryegate, Vt. Windlass.....	316,602	Apr. 28	2228	{ 586 587 }	{ 31 }	423
Carter, Sloan & Co. (See Howe, Edwin J., assignor.)						
Carter, Thomas C. (See Honck and Carter.)						
Carter, Wallace H., Hallowell, Me. Hay-knife.....	316,523	Apr. 28	2129	560	31	405
Carter, William C., assignor to G. S. Bally, Cincinnati, Ohio. Umbrella-stand.....	323,397	Aug. 4	19	5	32	526
Carter, William H., Springville, Utah Ter. Carpet-stretcher.....	317,296	May 5	500	126	31	614
Carter, Wilson. (See Simpson, Lottridge and Carter.)						
Cartmell, Minor, and N. Bayless, Urbana, Ohio. Wagon-brake.....	324,081	Aug. 11	911	252	32	700
Cartwell, Pearl M. (See Pierce, George W., assignor.)						
Cartwright, Constant J., et al. (See Cox, Joseph J., assignor.)						
Cartwright, David J., Revere, Mass. Protector for electrical instruments.....	320,912	June 30	2671	709	31	1567
Cartwright, Robert, assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Trolley for overhead tracks or tramways.....	318,165	May 19	1654	{ 442 443 }	{ 31 }	844
Carver Cotton Gin Company. (See Strong, Frederick S., assignor.)						
Carver, Joseph E., Bridgewater, Mass. Cotton-gin.....	324,457	Aug. 18	1434	392	32	804
Cary, Alanson, et al. (See Hall, Hiram S., assignor.)						
Cary, Charles H., assignor of three-fourths to R. D. Bullock, W. T. C. Wardwell, S. P. Colt, P. Hammill, and E. Horton, Bristol, R. I. Rotary engine or pump.....	336,543	Sept. 22	1755	459	32	1362
Cary, James C., New York, N. Y. Sunshade attachment for hats.....	317,972	May 19	1407	378	31	798
Cary, James H., Boston, Mass., assignor to Cary Telephone Signal Company, Portland, Me. Telephone signaling apparatus.....	310,379	Jan. 6	291	80	30	56
Cary, Samuel, Centerville, La. Earhanger.....	331,767	Dec. 8	784	198	33	1146
Cary Telephone Signal Company. (See Cary, James H., assignor.)						
Casaday, George B., Hudson, assignor of one-half to W. L. Casaday, South Bend, Ind. Plow.....	321,187	June 30	3029	803	31	1632
Casaday, George B., Hudson, assignor of one-half to W. L. Casaday, South Bend, Ind. Plow.....	321,188	June 30	3031	803	31	1632
Casaday, George B., Hudson, assignor of one-half to W. L. Casaday, South Bend, Ind. Plow.....	321,189	June 30	3033	804	31	1632
Casaday, William L. (See Casaday, George B., assignor.)						
Casaday, William L., South Bend, Ind. Boat.....	333,391	Dec. 29	3073	802	33	1573
Casaday, William L., assignor of one-half to South Bend Iron Works, South Bend, Ind. Wheel-plow.....	313,286	Mar. 3	361	89, 90	30	842
Casaday, William L., assignor of one-half to South Bend Iron Works, South Bend, Ind. Wheel-plow.....	323,496	Aug. 4	145	44	32	549
Casamajor, Paul. (See Stebbins and Casamajor.)						
Case, A. Wells, South Manchester, Conn. Car-coupling.....	316,114	Apr. 21	1580	410	31	300
Case, Bradley W. (See Roberts and Case.)						
Case, Calvin S., Jackson, Mich. Artificial tooth-crown and its attachments.....	328,837	Oct. 20	1744	453	33	334

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Case, Charles P., Horsesheds, N. Y. Reversible rotary engine	313,055	Mar. 3	21	6, 7	30	782
Case, Charles P., Horsesheds, N. Y. Reversible rotary engine	313,056	Mar. 3	28	7, 8	30	783
Case, Charles S., Binghamton, N. Y. Toe and instep stretcher for boots or shoes	310,380	Jan. 6	293	81	30	56
Case, Francis M., Denver, Colo. Sash-fastener	312,251	Feb. 17	1080	298	30	565
Case, George, assignor to W. T. Conklin, Joliet, Ill. Spool for barbed wire	312,188	Feb. 10	999	272	30	541
Case, George, assignor to W. T. Conklin, Joliet, Ill. Spool for barb-wire	312,970	Feb. 24	2046	558	30	750
Case, George F., Denver, Colo. Core-lifter for rock-drills	332,587	Dec. 15	1957	512	33	1359
Case, Henry, Brooklyn, N. Y. Traveling derrick	330,870	Nov. 24	1920	521	33	894
Case, Henry, assignor to M. A. Case, Brooklyn, N. Y. Sounding-rod	317,089	May 5	210	53	31	561
Case, Henry, assignor to M. A. Case, Brooklyn, N. Y. Structure for submarine sewers	326,544	Sept. 25	1756	459	32	1362
Case, Jarvis, Troy, Ohio. Corn-planting machine	316,743	Apr. 28	2443	636 637	31	462
Case, Joel T., Bristol, Conn. Vertical disk grinding-mill	322,233	Dec. 15	1457	378 379	33	1273
Case, Joel T., Bristol, Conn. Vertical disk grinding-mill	332,234	Dec. 15	1459	379 380	33	1273
Case, John M., assignor to Case Manufacturing Company, Columbus, Ohio. Middling- prifter	310,181	Jan. 6	27	7, 8	30	7
Case, Lewis F., Jr., Goshen, Ind. Vehicle-spring	328,287	Oct. 13	1004	261	33	190
Case Manufacturing Company. (See Case, John M., assignor.)						
Case, Margaret A. (See Case, Henry, assignor.)						
Case, Orville, Hartford, Conn. Body-truss	313,057	Mar. 3	32	8	30	784
Case, Oscar L., Windham, N. Y. Paper-hanging implement	314,798	Mar. 31	2309	635	30	1274
Case Threshing Machine Company, J. L. (See Walrath, Jesse, assignor.)						
Case, Warren, Collinsville, Ill. Churn	325,910	Sept. 8	917	231	32	1192
Case & Willard Thresher Company. (See Lafever, Minard, assignor.)						
Case, Willard E., Auburn, N. Y. Electrolytic liquid for storage-batteries	313,058	Mar. 3	32		30	784
Casey, David F., assignor to A. I. Hutchinson, Harrisonville, Ohio. Washing-machine pounder	328,003	Oct. 13	645	170	33	124
Casey, Dennis J. (See Torrey and Casey.)						
Casey, Frederick A., Saco, Me. Car-coupling	326,401	Sept. 15	1579	410 411	32	1321
Casey, John, Chelsea, Mass. Dummy-piano	315,724	Apr. 14	1036	272	31	194
Casey, Robert E. (See Gaines, Hiram F., assignor.)						
Casey, Thomas A., assignor to J. H. Bunnell & Co., New York, N. Y. Electric door-opener	322,681	July 21	1706	452	32	327
Casey, William. (See Davis and Casey.)						
Casgrain, William T., Milwaukee, Wis. Hood or cap for piles	333,392	Dec. 29	3074	802	33	1574
Cash, Evan F., assignor of two-thirds to R. A. Mercer and D. Rankin, Bellaire, Ohio. Lan- tern	312,551	Feb. 17	1502	410	30	643
Cash, Lewis N., near Eddyville, Ky. Wagon-frame for moving tobacco	322,039	July 14	865	225	32	165
Cashin, Michael, San Francisco, Cal. Boiler-tube expander	319,559	June 9	800	212	31	1200
Cashin, Michael, San Francisco, Cal. Boiler-tube expander	324,007	Aug. 11	808	225	32	682
Cashin, Michael, San Francisco, Cal. Billiard-table leg	324,917	Aug. 25	2068	566	32	930
Cashin, Thomas D., Hagerstown, Md. Lamp-shade holder	312,813	Feb. 24	1843	506	30	714
Cashman, Michael H. (See Jordan, Edmund, assignor.)						
Casler, Willie M., Columbia City, Ind. Gas apparatus	312,431	Feb. 17	1329	367	30	612
Casner, John, Covington, Pa. Apparatus for removing sheets of glass from annealing- ovens	324,533	Aug. 18	1536	424	32	823
Casperson, Carl A., Forsbacka, Sweden. Apparatus for pouring and casting metals	324,918	Aug. 25	2069	566	32	930
Cass, Riley, J., McArthur, and W. H. Adkins, Harlan, Iowa. Combined end-gate and scoop-board	326,714	Sept. 22	1993	522 523	32	1404
Cass, William M., Carlock, Tenn. Car brake and starter	333,109	Dec. 29	2693	706	33	1506
Casady, George, Valley Springs, Ark. Lock for sliding doors	316,115	Apr. 21	1581	411	31	300
Cassagne, Gilbert A., Paris, France. Printing-telegraph	313,175	Mar. 3	190	46, 47	30	812
Cassagne, Gilbert A., Paris, France. Printing-telegraph	313,176	Mar. 3	193	47, 48	30	812
Cassel, Henry R., New York, N. Y. Apparatus for treating metals by means of electrol- ysis	312,814	Feb. 24	1844	506	30	714
Cassella & Co., Leopold. (See Hoffmann, Meinhard, assignor.)						
Cassella & Co., Leopold. (See Hoffmann, Otto, assignor.)						
Cassellman, Conrad H., Effingham, Ill. Chimney and ventilator top	317,973	May 19	1406	378	31	799
Cassidy, Henry R., Delhi, Ohio, and A. Fries, Brookville, Ind. Brick-burning kiln	325,787	Sept. 8	771	193	32	1163
Cassidy, Jacob H., assignor of two-thirds to C. L. Knapp and W. G. Bolman, Leavenworth, Kans. Fruit-jar fastener	326,625	Sept. 22	1872	490	32	1381
Cassidy, Patrick, assignor of one-half to I. R. Adler, New York, N. Y. Privy-sink	331,682	Dec. 1	662	164	33	1115
Cassidy, Peter B., assignor of one-half to J. Crawley, Pittsburg, Pa. Mail-bag catcher	311,228	Jan. 27	1428	390	30	223
Cassidy, Peter B., assignor of one-half to J. Crawley, Pittsburg, Pa. Mail-bag catcher	317,504	May 12	783	200 201	31	673
Cassidy, Thomas W., Bangor, assignor, by mesne assignments, to himself, C. R. Jones, and W. B. Sawyer, Portland, Me. Cant-hook	326,951	Sept. 29	2358	616	32	1475
Castell, James, Blue Rapids, Kans. Refrigerator	328,952	Sept. 29	2359	617	32	1476
Castle, Goswin, Ava, N. Y. Boot or shoe	317,724	May 12	1061	276	31	725
Castle, Goswin, Ava, N. Y. Heel-band for boots and shoes	325,730	Sept. 8	804	173	32	1149
Castle, Samuel D., Bridgeport, Conn. Roller-skate	320,626	June 23	2704	608	31	1494
Castro, Angel, New York, N. Y. Marine torpedo	322,900	July 28	2019	533	32	390
Caterson & Brotz Company. (See Brotz, Robert, assignor.)						
Cates, Joseph B. F., et al. (See Burile, John D., assignor.)						
Cathcart, Frank H., Alexandria, Va. Steering apparatus	311,869	Feb. 10	535	147	30	457
Cathcart, James L., Alexandria, Va., assignor to M. J. Colley, J. E., C. M., and J. W. Bell, Washington, D. C. Railway fish-plate	329,622	Nov. 3	271	70	33	557
Cathcart, Rodney S., Palestine, Tex., assignor to American Cotton Oil Company, St. Louis, Mo. Oil-expressing box	320,847	June 23	2573	681	31	1543
Cathcart, Rodney S., Palestine, Tex., assignor to American Cotton Oil Company, St. Louis, Mo. Oil-expressing box package shaping machine	320,848	June 23	2574	681	31	1543
Catlin, Abel D. (See Garland and Catlin.)						
Catlin, Charles A., Providence, R. I. Recovering tin from tin-scrap	322,157	July 14	1024		32	195
Catlin, Frank P., Clayton, Wis. Sash-holder	322,520	July 21	1506	396	32	280
Cato, Quintus, and C. A. Spaulding, Estes Park, Colo. Harness-ring	331,477	Dec. 1	316	85	33	1064
Cattanach, Donald D., Providence, R. I. Furnace for boilers	320,539	June 23	2185	577	31	1468
Cattanach, Donald D., Providence, R. I. Manufacturing and distilling alcohol and hydro- carbons and rectifying and aging liquors	326,715	Sept. 22	1994	523	32	1405
Cattanach, Donald D., Providence, R. I. Apparatus for the manufacture and distillation of alcohol, hydrocarbons, and acetic acid, and for aging and refining liquors	326,716	Sept. 22	2000	524 32 33 34	32	1404
Cauderay, Jules, Lausanne, Switzerland. Apparatus for measuring electricity	310,252	Jan. 6	117		30	24

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•Cauderay, Jules, Lausanne, Switzerland. Electric meter.....	318,186	May 19	1656	{ 443 444 445 }	31	845
•Caugbreen, George H., Pleasant Hill, Mo. Machine for sacking, weighing, and register- ing grain.....	390,218	June 16	1703	{ 452 472 273 }	31	1374
•Caughy, Noah W., Baltimore, Md. Portable laboratory for dentists and jewelers.....	315,725	Apr. 14	1037	{ 273 273 }	31	194
•Cauthorn, George T. (See Coffee, Robert W., assignor.)						
•Cauthorn, Isaac N., Rich Hill, Mo. Hay-press.....	317,297	May 5	501	{ 127 268 270 271 }	31	615
•Cavalli, Andrea, San Francisco, Cal. Nailing-machine for boots or shoes.....	310,932	Jan. 20	993	{ 230 231 231 }	30	197
•Cavalli, Andrea, San Francisco, Cal. Machine for screw-threading wire.....	312,064	Feb. 10	842	{ 230 231 231 }	30	513
•Cavalli, Andrea, San Francisco, Cal. Reel for holding wire in the coil.....	325,394	Sept. 1	244	{ 61 61 }	32	1062
•Cavanagh, James, trustee. (See Dancel, Christian, assignor.)						
•Cavanagh, Michael F., St. Louis, assignor to J. P. Snyder, Jefferson City, Mo. Horse-collar.....	323,274	July 28	2541	{ 675 531 531 }	32	487
•Cave, William M., C. Holm, and W. Blandow, Chicago, Ill. Lasting-tack.....	317,080	May 5	811	{ 53 292 292 }	31	562
•Cavell, George W., Cleveland, Ohio. Button.....	326,080	Sept. 8	1147	{ 292 292 }	32	1234
•Caverly, Amos K., Moline, Ill., assignor to S. Caverly. Running-gear for vehicles.....	314,222	Mar. 24	1601	{ 423 423 }	30	1100
•Caverly, Sarah. (See Caverly, Amos K., assignor.)						
•Caywood, George W., Joliet, Ill., assignor to Joliet Wire Check Rower Company, of Illi- nois. Machine for forming check-rower wire.....	314,106	Mar. 17	1452	{ 380 380 }	30	1063
•Celluloid Manufacturing Company. (See Pool, Frank V., assignor.) (Reissue.)						
•Celluloid Manufacturing Company. (See Stevens and Wood, assignors.)						
•Celluloid Manufacturing Company. (See Hyatt and Everding, assignors.)						
•Cerebotani, Luigi, Sayn, Prussia, Germany. Apparatus for measuring distances.....	310,253	Jan. 6	190	{ 34 83 83 }	30	25
•Cesena, Polite C., Macon City, Mo. Ga'e.....	319,193	June 2	312	{ 83 83 }	31	1106
•Chabot, Cyprien, assignor to Philadelphia Machinery Company, Philadelphia, Pa. Mech- anism for forming beveled rims on watch-cases.....	321,686	July 7	375	{ 100 100 }	32	70
•Chabot, Cyprien, assignor to Philadelphia Machinery Company, Philadelphia, Pa. Form- ing rims on watch-cases.....	321,687	July 7	376	{ 100 100 }	32	70
•Chace, A. H. (See Chace, Edward, assignor.)						
•Chace, Edward, assignor to himself and A. H. Chace, Washington, D. C. Destroying in- sects.....	327,861	Oct. 6	461	{ 190 190 }	33	82
•Chadborn & Coldwell Manufacturing Company. (See Johnston, Thomas, assignor.)						
•Chadsey, John N., Valatie, N. Y. Folding and pasting machine for forming cornucopia, paper bags.....	328,459	Oct. 20	1246	{ 323 324 324 }	33	243
•Chadsey, William R., St. Louis, Mo. Tobacco-pipe.....	311,469	Feb. 3	12	{ 4 4 }	30	351
•Chadsey, William R., St. Louis, Mo. Tobacco-pipe.....	327,920	Oct. 6	537	{ 140 157 157 }	33	96
•Chadwick, Abiather, Kansas City, Mo. Reversible coal-chute.....	313,471	Mar. 10	606	{ 157 1051 274 }	30	898
•Chadwick, Charles N., Brooklyn, N. Y. Underwaist.....	330,205	Nov. 10	1051	{ 274 2021 534 }	33	713
•Chadwick, Horace E., Providence, R. I. Bracelet.....	322,901	July 28	2021	{ 534 2124 575 }	32	390
•Chadwick, Horace E., Providence, R. I. Bracelet.....	331,033	Nov. 24	2124	{ 575 1286 1286 }	33	933
•Chadwick, Loren, Battle Creek, Mich. Blackboard composition.....	330,375	Nov. 17	1286	{ 33 533 476 }	33	766
•Chaffee, Reuben S., Springfield, Ill. Feeding mechanism for breech-loading fire-arms.....	314,515	Mar. 24	1999	{ 533 476 477 }	30	1173
•Chaffee, Reuben S., assignor of one-half to J. N. Reece, Springfield, Ill. Magazine fire- arm.....	314,363	Mar. 24	1791	{ 476 477 358 }	30	1136
•Chaffin, Simon, assignor of one-half to J. C. Farmerlee, Sedalia, Mo. Weather-strip.....	317,926	May 12	1333	{ 358 358 }	31	777
•Chain, Newton W., assignor of one-half to F. E. Norwood, Columbia, Mo. Boiler washing- machine.....	327,136	Sept. 29	2599	{ 677 516 516 }	32	1518
•Chalfant, Alexander, Mulberry Grove, Ill. Vehicle running-gear.....	318,354	May 19	1913	{ 516 516 }	31	892
•Chalfant, George M. (See Wilson and Chalfant.)						
•Challberg, John, Marcy, Iowa. Windmill.....	317,298	May 5	502	{ 127 127 }	31	615
•Challenge Corn Planter Company. (See Scofield, Levi, assignor.)						
•Challenger, Frank, Omro, Wis. Shingle-sawing machine.....	318,956	June 2	34	{ 9, 10 2448 637 }	31	1055
•Challoner, John, Sr., Omro, Wis. Machine-brake.....	316,744	Apr. 28	2448	{ 637 164 44, 45 }	31	462
•Chalmers, George, San Juan, Cal. Railway-switch.....	319,067	June 9	164	{ 44, 45 16 4, 5 }	31	1078
•Chamberl, Peter F., Fayette, Ohio. Hay-elevator.....	314,098	Apr. 7	16	{ 4, 5 359 359 }	31	5
•Chamberl, Peter F., Fayette, Ohio. Hook.....	320,047	June 16	1476	{ 359 3034 338 }	31	1333
•Chamberlain, Blanchard, assignor of one-half to F. J. Scarff, Bellefontaine, Ohio. Anti- rattler and shaft-support for thill-couplings.....	321,190	June 30	3034	{ 804 338 435 }	31	1633
•Chamberlain, Courtland A., Canton, N. Y. Car-coupling.....	315,008	Apr. 14	1298	{ 338 435 436 }	31	241
•Chamberlain, Courtland A., Canton, N. Y. Car-coupling.....	332,380	Dec. 15	1963	{ 436 460 296 }	33	1309
•Chamberlain, Edmund D., Westfield, N. J. Hand-stamp.....	314,315	Mar. 24	1728	{ 460 907 512 }	30	1194
•Chamberlain, Henry, assignor of one-half to G. J. Vaness, Waupaca, Wis. Fire-escape.....	313,709	Mar. 10	907	{ 296 512 513 }	30	955
•Chamberlain, James M., Winfield, Kans. Machine for cleansing clothes.....	332,588	Dec. 15	1957	{ 513 513 }	33	1539
•Chamberlain, Marcus W., assignor of three-fourths to E. A. and F. S. Ely, Branchville, and P. A. Ely, Madison, N. J. Hay elevator and carrier.....	318,085	May 19	1553	{ 416 617 617 }	31	825
•Chamberlain, Marcus W., assignor of three-fourths to E. A. and F. S. Ely, Branchville, N. J., and P. A. Ely, Madison, N. J. Grappling-fork.....	326,953	Sept. 29	2360	{ 617 617 }	32	1476
•Chamberlain, Otis. (See Gelinas, Zephirin M., assignor.)						
•Chamberlain, William T., assignor of two-thirds to B. M. Prince, Norwich, Conn., and W. Crossley, Randolph, Mass. Cartridge for compressed air.....	310,648	Jan. 13	624	{ 173 625 173 }	30	125
•Chamberlain, William T., assignor of two-thirds to B. M. Prince, Norwich, Conn., and W. Crossley, Randolph, Mass. Pneumatic projectile.....	310,649	Jan. 13	625	{ 173 468 468 }	30	125
•Chamberlain, William T., assignor of two-thirds to B. M. Prince, Norwich, Conn., and W. Crossley, Randolph, Mass. Explosive shell.....	312,705	Feb. 24	1700	{ 468 1701 468 }	30	688
•Chamberlain, William T., assignor of two-thirds to B. M. Prince, Norwich, Conn., and W. Crossley, Randolph, Mass. Pneumatic cartridge.....	312,706	Feb. 24	1701	{ 468 558 558 }	30	689
•Chamberlain, William T., assignor of two-thirds to B. M. Prince, Norwich, Conn., and W. Crossley, Randolph, Mass. Pneumatic projectile.....	312,971	Feb. 24	2047	{ 558 559 559 }	30	750
•Chamberlain, William T., assignor of two-thirds to B. M. Prince, Norwich, Conn., and W. Crossley, Randolph, Mass. Pneumatic projectile.....	312,972	Feb. 24	2048	{ 559 559 }	30	700
•Chamberlain, Roscoe. (See Austin and Chamberlain.)						
•Chamberlin, Addison J., et al. (See Evans, John C., assignor.)						
•Chamberlin, Chester U., Hartford, N. Y. Composition for preserving eggs.....	311,470	Feb. 3	12	{ 30 452 453 }	30	351
•Chamberlin, Franklin L., Cleveland, Ohio. Charging cartridges.....	320,219	June 16	1704	{ 452 453 453 }	31	1374
•Chamberlin, Hiram M., Waltham, Mass. Saw-set.....	325,052	Aug. 25	2248	{ 617 383 383 }	32	964
•Chamberlin, John H., St. Paul, Minn. Stock-car.....	329,716	Nov. 3	383	{ 100 100 }	33	580

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Chamberlin, Lucian C., Lathrop, Mo. Cultivator.....	333,280	Dec. 29	2981	767	32	1549
Chamberlin, Samuel W. (See Howard, James H., assignor.)						
Chamberlin, Stillman W. (See Dean, Thomas F., assignor.)						
Chamberlin, Thomas C., et al. (See Evans, John C., assignor.)						
Chambers, Arthur M., and T. Smith, Sheffield, county of York, England. Coking coal....	330,627	June 23	2306	{ 608 609 }	31	1490
Chambers, Asa. (See Chambers and Davis.)						
Chambers, Bering, Quinlan Company. (See Barnes, Alden and M., assignors.)						
Chambers, Bering, Quinlan Company. (See Rush, William B., assignor.)						
Chambers, Cyrus, Jr. (See Tricker, John N., assignor.)						
Chambers, Daniel T., Mechanicsburg, Ohio, assignor of one-third to E. P. Clark, Holyoke, Mass. Holdback.....	322,158	July 14	1026	266	32	195
Chambers, Daniel T., Mechanicsburg, Ohio, assignor to himself and E. P. Clark, Holyoke, Mass. Holdback for vehicle-shafts.....	322,159	July 14	1027	267	32	195
Chambers, Daniel T., Mechanicsburg, Ohio, assignor, by mesne assignments, of one-third to E. P. Clark, Holyoke, Mass. Scythe-snath fastener.....	322,692	July 21	1708	453	32	329
Chambers, Edward. (See Chambers, George J. and E.)						
Chambers, George, Peckham, county of Surrey, England. Tip and stud for boots or shoes.	326,844	Sept. 23	2200	574	32	1441
Chambers, George J. and E., Springfield, Ill. Tailor's measure.....	332,783	Dec. 28	2234	589	33	1417
Chambers, John G. (See Calhoun and Chambers.)						
Chambers, John G., and L. Byers, Thorntown, Ind. Fence.....	324,656	Aug. 18	1713	479	32	856
Chambers, John R. S., and A., and W. J. Davis, Cleburne, Tex. Pulverizer and cultivator.	322,490	July 21	1360	355	32	964
Chambers, Josephus C. (See Jackson and Chambers.)						
Chambers, S. (See Depp, William E., assignor.)						
Chambers, Silas. (See Chambers and Davis.)						
Chambers, Washington I., Kingston, N. Y. Marine torpedo.....	327,380	Sept. 29	2922	762	32	1575
Chambers, Washington I., Kingston, N. Y. Marine torpedo.....	328,919	Oct. 27	1864	467	33	363
Chambers, Zabina E. (See Martin, Samuel, assignor.)						
Champe, James M., Litchfield, Ill. Churn.....	321,688	July 7	377	100	32	70
Champion, John. (See Keen, Horace F., assignor.)						
Champion Safety Lock and Novelty Company. (See Rosentreter, Frank L., assignor.)						
Champlain, Henry L., et al. (See Champlain, William C., assignor.)						
Champlain, L. Eugene, and G. G. Winans, Ypsilanti, said Winans assignor to L. M. Miller, Detroit, Mich. Check-rein spring.....	312,330	Feb. 17	1195	327	30	565
Champlain, Richard W., et al. (See Champlain, William C., assignor.)						
Champlain, William C., assignor of two-thirds to R. W. Champlain, Chester, and H. L. Champlain, Harrisburg, Pa. Cut-off valve gear.....	317,299	May 5	503	126	31	615
Chance, William E. (See Mason and Conqueror, assignors.)						
Chandler, Adoniram J., Cincinnati, Ohio. Movable dressing-closet for sleeping-cars.....	331,034	Nov. 24	2125	575	33	933
Chandler, Clarence A., East Bridgewater, Mass. Faucet-socket.....	321,689	July 7	377	101	32	70
Chandler, Clarence A., assignor of one-half to F. C. Mann, East Bridgewater, Mass. Cotton-seed huller.....	317,927	May 12	1334	{ 358 359 }	31	777
Chandler, Moses, East Corinth, Me. Wheel-barrow.....	313,654	Mar. 10	842	919	30	943
Chandler, Piny F., Springfield, Mass. Gage for drawing knives.....	328,040	July 14	866	225	32	166
Chandler, Theophilus P., Jr., Philadelphia, Pa. Utilizing wave-power.....	328,759	Oct. 20	1646	429	33	315
Chanler, Thomas E., and E. Dodds, assignors to T. E. Chandler and F. Taylor, Indianapolis, Ind. Die for tile-machines.....	315,909	Apr. 14	1300	336	31	241
Chandler, William H., et al. (See Robinson, William, assignor.)						
Chaney, James M., et al. (See Gill, Edwin R., Jr., assignor.)						
Chantrell, John, Bridgeport, Conn. Brace-chuck.....	328,648	Oct. 20	1511	393	33	229
Chantrell, John, Bridgeport, Conn. Bit-brace.....	328,649	Oct. 20	1512	393	33	230
Chapel, A., Judson, Arkansas City, Kans. Car-coupling.....	317,725	May 12	1062	277	31	725
Chapin, Charles A., et al. (See Burke, James M., assignor.)						
Chapin, George L., Chicago, Ill. Hand fire-extinguisher.....	322,683	July 21	1709	453	32	328
Chapin, Henry A., et al. (See Partridge, Andrew, assignor.)						
Chapin, Henry J., New York, N. Y. Apparatus for treating sugar-cane.....	321,006	June 30	2795	743	31	1590
Chapin, Henry J., New York, N. Y. Crushing-roll.....	321,007	June 30	2796	743	31	1590
Chapin, Lucius E., Jefferson, Mich. Cultivator.....	322,888	Nov. 10	636	162	33	631
Chapin, Samuel N., New Britain, Conn. Sash-fastener.....	322,325	Dec. 15	1563	415	33	1285
Chapin, William G., Brooklyn, N. Y., assignor to J. T. Halsey, Richmond, Va. Valve-motion for steam-engines.....	322,348	July 14	1259	329	32	239
Chapin, William H., Springfield, Mass. Elastic-tired wheel.....	323,635	Aug. 4	335	95	32	584
Chaplin Bottling Wire Company. (See Chaplin, Orril R., assignor.)						
Chaplin, Orril R., Boston, Mass., assignor to Chaplin Bottling Wire Company, of New Hampshire. Bottling-wire machine.....	314,498	Mar. 24	1874	{ 499 500 501 }	30	1153
Chaplin, Winfield S., Schenectady, N. Y. Flush-tank for water-closets, sewers, &c.....	317,505	May 12	786	901	31	674
Chapman, Charles H., Groton, Mass., assignor to Eureka Spindle Company, of Massachusetts. Ring-spinning machine.....	316,603	Apr. 28	2229	587	31	424
Chapman, Charles H., Groton, assignor to Eureka Spindle Company, Ayer, Mass. Ring-spinning frame.....	327,862	Oct. 6	462	120	33	82
Chapman, Charles H., Groton, assignor to Eureka Spindle Company, Ayer, Mass. Bolster for spinning-spindles.....	327,863	Oct. 6	463	120	33	82
Chapman, Elwood, Emporia, Kans. Store-service apparatus.....	326,845	Sept. 22	2201	{ 574 575 }	32	1441
Chapman, Eugene M., Holyoke, Mass. Combined button and pin.....	326,717	Sept. 22	2207	524	32	1406
Chapman, Eugene M., Holyoke, Mass. Glove-fastener.....	330,871	Nov. 24	1922	521	33	895
Chapman, Frank H., assignor of one-half to S. O. Parker, Meriden, Conn. Snap-hook for reels.....	319,560	June 9	801	212	31	1205
Chapman, Frank R. (See Wells, George H., assignor.)						
Chapman, Herman L., Marcellus, Mich. Velocipede.....	329,362	Oct. 27	2523	650	33	480
Chapman, Hiram S., Penn. Mich., assignor of one-half to K. E. Rudd, Sheldon, Dak. Ter. Sheaf-carrier for self-binding harvesters.....	314,364	Mar. 24	1795	477	30	1137
Chapman, Horace P., Akron, Ohio, assignor to Howes, Babcock & Ewell, Silver Creek, N. Y. Flour-packer.....	311,811	Feb. 3	450	122	30	433
Chapman, John. (See Arci and Chapman.)						
Chapman, John C. (See Cambridge, William J., assignor.)						
Chapman, Joseph, Dubuque, Iowa. Car lock and seal.....	319,194	June 2	313	83	31	1106
Chapman, Joseph L., Haddonfield, N. J. Gas-mixer.....	329,717	Nov. 3	394	101	33	580
Chapman, Luke, Collinsville, Conn. Recutting files.....	318,957	June 2	37	.....	31	1055
Chapman, Nathan, Nantucket, Mass. Bread-cutter.....	318,694	May 26	2363	631	31	968
Chapman, Robert W., Newark, N. J. Manufacturing traveling-bags, satchels, &c.....	311,059	Jan. 20	1179	{ 323 324 }	30	222
Chapman, Robert W., Newark, N. J. Sheet-metal satchel or bag handle.....	317,300	May 5	504	198	31	615

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Chapman, Samuel A., Waterbury, assignor to J. C. Hammond, Jr., Rockville, and T. E. King, Westport, Conn. Shoe-clasp	392,789	July 21	1850	493	32	353
Chapman, William D., Theresa, N. Y. Trolling-bait	323,111	July 26	3222	615	32	446
Chapman, William D., Theresa, N. Y. Rotary escape-movement	332,879	Dec. 22	3267	626	33	1440
Chappell, Benjamin F., assignor of one-half to M. Card, South Windham, Conn. Chuck	313,472	Mar. 10	607	157	30	889
Chappell, William, Chicago, Ill. Check-valve	314,107	Mar. 17	1455	390	30	1064
Charles, Andrew, et al. (See Holmberg, Gustaf L., assignor.)						
Charles, Cassius M. (See Charles, James D., L. H., and C. M.)						
Charles, James D., L. H., and C. M., Litchfield, Ill. Stretcher	324,228	Aug. 11	1196	306	32	739
Charles, Leonidas H. (See Charles, James D., L. H., and C. M.)						
Charles, Robert K., Darlington, S. C. Cotton-harvester	314,365	Mar. 24	1796	477	30	1137
Charlesworth, Thomas G., Leicester, England. Apparatus for dyeing banks of wool	315,910	Apr. 14	1302	478	31	241
Charlotte Oil Company. (See Oliver, George, assignor.)				359		
Charmbury, Henry, Newark, N. J. Sewing-machine	316,745	Apr. 28	2448	637	31	462
Charmbury, Henry, Newark, N. J. Hat-sweat	324,062	Aug. 11	913	638	32	700
Charpentier, Jules V., New Orleans, La. Apparatus for facilitating the multiplication of numbers	322,160	July 14	1027	253	32	195
Charpentier, Jules V., New Orleans, La. Calculator	322,161	July 14	1031	267	32	196
Chase, Alfred A., and D. H. Hesselton, Holden, assignors of one-third to G. W. Fiske, Worcester, Mass. Device to be substituted for thresholds	325,237	Sept. 1	8	3	32	1016
Chase, Andrew J., Boston, Mass. Wall for refrigerator-structures	318,670	May 26	2610	692	31	1025
Chase, Andrew J., assignor to Childs, Chase & Co., Boston, Mass. Refrigerator	324,229	Aug. 11	1127	307	32	740
Chase, Edward A. (See Monteiro, Garcia, assignor.)						
Chase, Edward M., assignor to American Pneumatic Signal Company, Boston, Mass. Pneumatic railway-signal	311,959	Feb. 10	672	184	30	481
Chase, Elbridge O., Lynn, Mass. Man-hole for fire-engine houses	325,731	Sept. 8	695	185	32	1149
Chase Elevator Company. (See Chase, Henry I., P. F., and H. G., assignors.)				173		
Chase, Frank, Boston, Mass. Feeding mechanism for boot and shoe sewing machines	314,516	Mar. 24	2001	534	30	1174
Chase, Frank, Boston, Mass. Machine for grinding drills	331,115	Nov. 24	2240	609	33	954
Chase, Frank, assignor to C. F. Johnson, Boston, Mass. Machine for lasting boots or shoes	319,784	June 9	1097	291	31	1258
Chase, Frank, assignor to C. F. Johnson, trustee, Boston, Mass. Machine for uniting soles to uppers of boots and shoes	390,849	June 23	2575	621	31	1543
Chase, George S., Bellefonte, Pa. Water-gate	311,471	Feb. 3	13	4	30	351
Chase, Henry B., Portland, Oreg. Heater	314,999	Apr. 7	19	5	31	6
Chase, Henry G. (See Chase, Henry I., P. F., and H. G.)						
Chase, Henry I., P. F., and H. G., assignors to Chase Elevator Company, Chicago, Ill. Drying grain	322,257	July 14	1142	296	32	217
Chase, Hezekiah S., et al. (See Brigham, Perry, assignor.)						
Chase, Horace. (See Chase, Milton, assignor.)						
Chase, Horace P., New Bedford, assignor of three-fourths to G. Draper & Sons, Hopedale, Mass. Spindle-bolster	327,137	Sept. 29	2600	677	32	1518
Chase, Isaac M., Washington, D. C. Corn-husking machine	310,162	Jan. 6	29	8, 9	30	8
Chase, Isherwood & Co. (See Burdick and Coleman, assignors.)						
Chase, J. Herbert, Brooklyn, N. Y. Mechanical musical instrument	318,448	May 26	2030	547	31	922
Chase, John B., et al. (See Richards, Marcus C., assignor.)				548		
Chase, John B., Aurora, Ill. Adjustable stop for sliding doors	323,281	Dec. 29	2932	767	33	1549
Chase, Lucien A., Elsie, Mich. Straw-stacker for grain-separators	318,695	May 26	2364	631	31	963
Chase, Lucien C., et al., trustees. (See Norton, John A., assignor.)						
Chase, Milton, Haverhill, Mass. Tire-tightener	320,850	June 23	2576	622	31	1544
Chase, Milton, Haverhill, Mass. Machine for forming flanges upon soft pipes	322,790	July 21	1851	492	32	353
Chase, Milton, Haverhill, Mass. Cushion for the tires, &c., of vehicle-wheels	324,534	Aug. 16	1538	424	32	623
Chase, Milton, Haverhill, assignor of one-half to H. Chase, Boston, Mass. Vapor-generator	326,478	Sept. 15	1669	436	32	1336
Chase, Nehemiah, et al. (See Stanton, Lafayette J., assignor.)						
Chase, Philander F. (See Chase, Henry I., P. F., and H. G.)						
Chase, Sidney A., assignor of one-half to W. R. Mapes, Ewart, Mich. Electric fire-alarm	332,638	Dec. 15	2921	531	33	1371
Chase, William M., New Haven, Conn. Seal-press	328,228	Oct. 13	1005	961	33	190
Chastain, Marshal, Moulton, Iowa. Burial apparatus	312,816	Feb. 24	1847	507	30	715
Chastain, Amand J. B. A., New York, N. Y. Marquetry	310,381	Jan. 6	294	81	30	56
Chatelanaet, François, Jersey City, N. J. Ash-sifter	317,974	May 19	1409	378	31	799
Chaumont, Jules. (See Milligan and Chaumont.)						
Chaumont, Jules, Wood Haven, assignor to Lalancé & Grojean Manufacturing Company, New York, N. Y. Patty-pan	312,189	Feb. 10	1000	273	30	541
Cheeman, James I., Altoona, Pa. Link-making machine	332,993	Dec. 22	2526	666	33	1470
Cheetham, Frederick W., Hyde, county of Chester, England. Attaching wire or springs to hat-leathers, &c.	319,561	June 9	802	213	31	1205
Cheever, Charles A., trustee. (See Shaw, William A., assignor.)						
Cheever, Charles A., trustee. (See Wheeler, Schuyler A., assignor.)						
Cheever, Charles A., trustee. (See Wheeler, Schuyler S., assignor.) (Reissue.)						
Cheever & Co., G. W. (See Pardee, Charles F., assignor.)						
Chogwin, William, and W. A. Eldredge, Fond du Lac, Wis. Holdback for vehicles	320,015	Oct. 27	2021	524	33	390
Chemische Fabrik auf Actien. (See Kempf, Theodor, assignor.)						
Cheney, Cleveland J., Lowell, Mass. Water-gate	323,562	Aug. 4	236	69	32	565
Cheney, Frederick P., Glover, Vt. Shuttle	320,362	Nov. 10	1963	335	33	755
Cheney, John L., Lowell, Mass. Bobbin and spool	316,944	May 5	17	5	31	526
Cheney, John L., Lowell, Mass. Dynamometer	328,650	Oct. 20	1514	393	33	290
Cherney, Jacob, assignor of one-half to F. M. Davis, Denver, Colo. Crushing and pulverizing mill	316,331	Apr. 21	1866	491	31	349
Cherney, Jacob, and W. C. Davis, assignors to said Cherney and F. M. Davis, Denver, Colo. Ore-concentrator	311,963	Feb. 3	519	140	30	446
Cherry, William S. (See Kangley and Cherry.)				141		
Cherry, William S., Strator, Ill. Coal-hoist	333,195	Dec. 29	2809	785	33	1596
Cheesbro, Denison S., Geddes, N. Y. Sheathing for buildings	320,757	June 23	2463	653	31	1593
Cheesbro, Denison S., Geddes, N. Y. Machine for forming earthen and stone ware	325,911	Sept. 8	918	321	32	1192
Cheesbro, Frank H., South Haven, Mich. Hand seed-drill	327,324	Sept. 29	2722	707	32	1541
Cheeshire, Edward. (See Cheeshire, Elizabeth and E.)						
Cheeshire, Edward, assignor of one-half to E. Cheeshire, Cincinnati, Ohio. Book-sewing machine	317,506	May 12	787	201	31	674

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Clark, Charles D. (See Hanson and Clark.)						
Clark, Charles H., assignor of one-half to S. A. Servis, Rochester, N. Y. Tobacco-moistening device	314,223	Mar. 24	1603	423	30	1101
Clark, Charles S. (See Harvey and Clark.)						
Clark, Daniel R., Rochester, N. Y. Stove-pipe	318,167	May 19	1660	445	31	845
Clark, Devolaon L. (See Mast, Startzman, and Clark.)						
Clark, E. P. (See Chambers, Daniel T., assignor.)						
Clark, Edward, Jersey City, N. J. Conductor	333,111	Dec. 29	2095	707	33	1506
Clark, Edward, Newburg, N. Y. Electrical conductor	333,110	Dec. 29	2094	703	33	1506
Clark, Edward, Newburg, and T. A. Richards, Brooklyn, N. Y. Electrical conductor	333,394	Dec. 29	3070	0'8	33	1574
Clark, Elijah, Louisville, Ky. Micrometer-gage for watch-makers	331,116	Nov. 24	2242	610	33	954
Clark, Ella U., et al. (See Farrand, Nathaniel W., assignor.)						
Clark, Embury P. (See Chambers, Daniel T., assignor.)						
Clark, Emri W., Nashua, N. H. Fish-grapple	321,796	July 7	531	140	32	99
Clark, Ernest P., Owego, N. Y. Dynamo-electric machine	330,095	Nov. 10	916	33	33	686
Clark, Everett A. (See Walsh, Murphy, and Clark.)						
Clark, Frank S., and J. A. Bachman, Austin, Tex. Baling-press	331,035	Nov. 24	2125	576	33	933
Clark, Frank W., Granville, Mass. Crib	329,016	Oct. 27	2022	524	33	330
Clark, Franklin A., Milford, Conn. Making spectacle-templates	328,920	Oct. 27	1867	457	33	368
Clark, Franklin H., Cleveland, Ohio. Atomizer	327,237	Sept. 30	2725	708	32	1541
Clark, Franklin H., Cleveland, Ohio. Table for gynecological and surgical purposes	328,460	Oct. 20	1949	324	33	943
Clark, George A. (See Joslin, Hiram L., assignor.)						
Clark, George F., Ravenswood, W. Va. Harrow	310,793	Jan. 13	809	219	30	159
Clark, George J., Ayersville, Ohio. Churn	328,188	Oct. 13	886	230	33	128
Clark, George M., Higganum, Conn. Cultivator	330,960	Nov. 24	2042	552	32	917
Clark, George M., and W. H. Briggs, assignors to Adams & Westlake Manufacturing Company, Chicago, Ill. Car-lamp	329,535	Nov. 3	154	30	33	534
Clark, George M., and W. H. Briggs, assignors to Adams & Westlake Manufacturing Company, Chicago, Ill. Car-lamp	329,718	Nov. 3	305	101	33	860
Clark, George P., Windsor Locks, Conn. Wheel or pulley	322,581	July 21	1568	418 419	32	304
Clark, George R., Dubuque, Iowa. Window-screen	318,871	May 26	2611	693	31	1025
Clark, Harry M. (See Blount, John G., assignor.)						
Clark, Has. (See Vanorman, Oliver, assignor.)						
Clark, Heman, New York, N. Y. Dredging and grappling apparatus	326,627	Sept. 22	1874	491	32	1321
Clark, Henry, assignor of one-half to F. W. Erbacher, Milwaukee, Wis. Caster	329,275	Oct. 27	2286	617	33	457
Clark, Henry A., Boston, Mass. Electrical cable	310,879	Jan. 20	919	250	30	185
Clark, Henry A., Boston, Mass. Electric cable	311,174	Jan. 27	1349	370	30	269
Clark, Henry F. (See Babcock, E. Stillman, assignor.)						
Clark, Henry F., Poughkeepsie, N. Y. Cartridge	310,650	Jan. 13	626	173	30	125
Clark, Henry F., Poughkeepsie, N. Y. Sight for fire arms	319,068	June 2	168	45	31	1079
Clark, Henry F., Poughkeepsie, N. Y. Breech-loading fire-arm	328,005	Oct. 13	647	171	33	124
Clark, Henry F., Poughkeepsie, N. Y. Torpedo-signal	330,562	Nov. 17	1523	407	33	810
Clark, Henry F., Poughkeepsie, N. Y., assignor to Palmer Torpedo Railway Signal Company, Plainfield, N. J. Railway signal-torpedo	332,784	Dec. 22	2235	589	33	1417
Clark, Herbert M. (See Swan, Henry C., assignor.)						
Clark, Jacob M., Elizabeth, N. J., and C. A. L. Totten, U. S. Army. Graduating-arcs upon mathematical and other instruments	329,139	Oct. 27	2105	569	33	420
Clark, James, assignor of one-half to A. Bowen, Medina, N. Y. Steam-engine	316,332	Apr. 21	1858	491	31	349
Clark, James E., Washington, N. C. Fertilizer-distributor	314,652	Mar. 31	2166	579	30	1234
Clark, James H., Chicago, Ill. Sewer	325,220	Sept. 8	819	205	32	1172
Clark, James W., and N. A. Palmer, Pataskala, Ohio. Automatic check-row corn-planter	314,431	Mar. 24	1881	502	30	1153
Clark, James W., and N. A. Palmer, Pataskala, Ohio. Corn-planter check-line anchor	314,432	Mar. 24	1885	503	30	1154
Clark, John K., Buffalo, N. Y. Railway tie or support	310,794	Jan. 13	810	219 220	30	159
Clark, John K., Buffalo, N. Y. Stop-cock box	311,871	Feb. 10	539	148	30	457
Clark, John K., Buffalo, N. Y. Rail support or tie for railways	323,275	July 28	2541	675 676	32	487
Clark, John L. (See Nicholson, Granville, assignor.)						
Clark, John M. (See Littleton and Clark.)						
Clark, John R., and H. Tindell, Harrison, N. J. Machine for picking and burring wool or cotton	326,273	Sept. 15	1413	368	32	1280
Clark, John W., Hermanville, Miss. Seed-planter	324,458	Aug. 18	1435	392	32	805
Clark, Joseph, et al. (See Roach, Michael J., assignor.)						
Clark, Joseph E. L. and W. J. K. Brixton, county of Surrey, and R. D. Bowman, Leytonstone, county of Essex, England. Electric-arc lamp	324,008	Aug. 11	800	225 226	32	682
Clark, Joshua L. (See Fairfield, Clark, and Hughes.)						
Clark, Julius S., Melrose, Mass. Foot-rest	332,792	July 21	1854	492	32	354
Clark, Levi S., assignor to himself, O. G. Franks, G. T. Baughman, Doylestown, and J. H. Warren, Lodi, Ohio. Two-wheeled vehicle	330,468	Nov. 17	1410	375	33	789
Clark, Lewis M., Harper, Kans. Railway-tie	332,490	Dec. 15	1802	473	33	1333
Clark, Louis, Jr. (See Weinberg, Clark, and Winkler.)						
Clark, Marcus M., Vermont, Ill. Bow-facing oar	325,055	Aug. 25	2252	618	32	964
Clark, Mary E. (See Shively and Clark.)						
Clark, Mary E., Fairville, N. Y. Fruit-drier	331,768	Dec. 8	785	199	33	1146
Clark, Matthew J., Clermontville, Ohio. Coffee-roaster	331,615	Dec. 1	564	137	33	1096
Clark, Melville, Chicago, Ill. Reed-organ	310,933	Jan. 20	998	271	30	197
Clark, Melville, Chicago, Ill. Reed-organ stop-action	326,274	Sept. 15	1415	368	32	1290
Clark, Milton. (See Cowley, James T., assignor.)						
Clark, Milton, New York, N. Y., and J. T. Cowley, Baltimore, Md. Store-service apparatus	312,067	Feb. 10	848	232	30	514
Clark, Milton, New York, N. Y., and J. T. Cowley, Baltimore, Md. Store-service apparatus	312,068	Feb. 10	849	233 233	30	514
Clark, Milton, New York, N. Y., and J. T. Cowley, Baltimore, Md. Store-service apparatus	312,069	Feb. 10	851	233	30	515
Clark, Milton, New York, N. Y., and J. T. Cowley, Baltimore, Md. Store-service apparatus	312,070	Feb. 10	852	233 234	30	515
Clark, Milton, New York, N. Y., and J. T. Cowley, Baltimore, Md. Store-service apparatus	312,091	Feb. 10	854	234	30	515
Clark, Muirhead & Co., Latimer. (See Gibbins, Joseph P., assignor.)						
Clark, Myron W., Parma, assignor to G. T. Smith, Jackson, Mich. Conveyor for flour-bolts	319,786	June 9	1104	203	31	1259
Clark, Norman, Sterling, Ill. Sash-holder	311,872	Feb. 10	540	148	30	457
Clark, Norman, Sterling, Ill. Machine for enlarging finger-rings	318,086	May 26	2266	631	31	963
Clark, Norman, assignor to J. H. and E. F. Lawrence, Sterling, Ill. Door-hanger	328,322	Oct. 13	1148	295	33	217

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Clark, Oscar P. and L. C. Crouch, Bentonville, Ark. Wax-end twister	317,729	May 12	1065	278	31	725
Clark, Patrick, Rahway, N. J. Combined dynamometer and safety-valve	318,697	May 26	2367	632	31	983
Clark, Richard. (See Wills, Samuel, assignor.)						
Clark, Robert H., assignor to N. Sperry, Seymour, Conn. Power-press	319,195	June 2	315	84	31	1106
Clark, Robert J., Chestnut Level, Pa. Harness	317,301	May 5	505	122	31	615
Clark, Rollin C., and M. H. Warren, Cory, Pa. Still and filter	318,096	May 26	2368	632	31	983
Clark, Theodore F. (See Hollenbeck, Frank A., assignor.)						
Clark, Thomas C., Cohoes, N. Y. Faucet for wash-bowls	323,563	Aug. 4	237	69	32	565
Clark, Thomas E. (See Caine, Carlos, assignor.)						
Clark, Thomas J., et al. (See Bouvier, Louis P., assignor.)						
Clark, Thomas K., Germania, Kans. Machine for channelling harness-straps	320,628	June 23	2307	609	31	1491
Clark, Thomas R., New York, N. Y. Manufacture of glazed leather	321,191	June 30	3035		31	1633
Clark, Thomas R., New York, N. Y. Glazed kid-leather	323,521	July 21	1507		32	280
Clark, Thomas R., New York, N. Y. Tanning hides and skins	331,942	Dec. 8	1035		33	1193
Clark, Truman S., San Francisco, Cal. Bedstead for wire mattresses	328,762	Oct. 20	1649	430	33	316
Clark, Walter, New York, N. Y. Photographic camera	314,317	Mar. 24	1730	460 461	30	1125
Clark, William, et al. (See Samuels, Thomas, assignor.)						
Clark, William, Plumstead, England. Steam-boiler	315,343	Apr. 7	369	91	31	67
Clark, William, Lincoln, Nebr. Door-strip	330,563	Nov. 17	1525	408	33	811
Clark, William D. (See Wenigmann, Paul, assignor.)						
Clark, William F., assignor of one-half to F. M. Dickershoff, San Francisco, Cal. Book-mark	332,327	Dec. 15	1585	416	33	1265
Clark, William H., What Cheer, Iowa. Rock-drilling machine	330,376	Nov. 17	1287	341	33	766
Clark, William H. and W. J. Salem, Ohio. Oil-can	320,759	June 23	2466	653	31	1523
Clark, William H. and W. J. Salem, Ohio. Elevator-bucket	320,760	June 23	2467	654	31	1523
Clark, William J. (See Clark, William H. and W. J.)						
Clark, William J. K. (See Clark and Bowman.)						
Clark, William M., Brooklyn, N. Y. Instrument for entering and drawing tacks	319,070	June 2	171	45	31	1079
Clark, William R. (See Brown and Clark.)						
Clark, William R., Detroit, Mich., assignor to Singer Manufacturing Company of New Jersey. Braiding attachment for sewing-machines	319,069	June 2	169	45	31	1079
Clark, William R., Detroit, Mich., assignor to Singer Manufacturing Company of New Jersey. Combined hemmer and lace-guide for sewing-machines	332,700	Dec. 22	2130	562	33	1397
Clark, William S., and J. F. Murphy, Little Falls, N. Y. Trimming attachment for sewing-machines	324,813	Aug. 25	1930	531	32	904
Clarke, Alanson P., Auburn, N. Y. Rake	316,604	Apr. 22	2220	587	31	424
Clarke, Alanson P., Auburn, N. Y. Manufacture of rakes	323,913	Aug. 11	668	193	32	660
Clarke, Alexander D., New York, N. Y. Apparatus for cleaning filters of ore-concentrators	323,790	Aug. 4	525	149	32	621
Clarke, Alexander D., New York, N. Y. Filtering-table for ore-concentrators	323,791	Aug. 4	526	149	32	622
Clarke, Alexander D., New York, N. Y. Ore-concentrator	328,006	Oct. 13	650	171	33	125
Clarke, Alfred, and H. C. Perham, assignors to Kitson Machine Company, Lowell, Mass. Machine for opening and cleaning cotton and other fibers	319,815	Feb. 24	1846	507	30	714
Clarke, Almon, Sheboygan, Wis. Book-support	328,719	Nov. 3	397	101	33	551
Clarke, Anna B., Chicago, Ill., assignor to A. G. Jennings & Sons, Brooklyn, N. Y. Mitt.	317,511	May 12	797	204	31	675
Clarke, Charles L., Manchester, county of Lancaster, England, assignor to Domestic Electrical Manufacturing Company, Boston, Mass. Portable electrical gas-lighting apparatus	324,009	Aug. 11	812	226	32	682
Clarke, Charles L., Manchester, county of Lancaster, England, assignor to Domestic Electrical Manufacturing Company, Boston, Mass. Electric generator or spark-producing apparatus	324,010	Aug. 11	816	226	32	683
Clarke, Charles L., New York, N. Y. Electric valve-operator	327,525	Oct. 6	18	5	33	5
Clarke, Charles L., New York, N. Y. Telemeter system	327,526	Oct. 6	22	6	33	6
Clarke, Charles L., New York, N. Y. Telemetry	327,527	Oct. 6	29	7	33	7
Clarke, Charles L., New York, N. Y. Operating circuits in telemeter systems	327,657	Oct. 6	214	53	33	38
Clarke, Christopher, Northampton, Mass. Fire-escape tower	318,096	May 19	1554	417	31	825
Clarke, David W., Tidoute, Pa. Neck-yoke	331,376	Dec. 1	169	43	33	1028
Clarke, Erwin B., Grand Rapids, Mich. Carpet-sweeper	325,732	Sept. 8	696	174	32	1150
Clarke, Frederick N. (See Woodbury, Walter B., assignor.)						
Clarke, George H. (See Kenyon, John W., assignor.)						
Clarke, George H. (See Sibley, William J., assignor.)						
Clarke, George P., and G. Harsin, assignors of one-third to C. E. Furman, New York, N. Y. Exercising-machine	321,278	June 30	3141	637	31	1632
Clarke, John N., Jr., Cincinnati, Ohio. Horseshoe-machine	325,054	Aug. 25	2251	618	32	964
Clarke, Joseph H., Springfield, Ohio. Chin-rest	324,083	Aug. 11	914	253	32	700
Clarke, Joseph H., Springfield, Ohio. Arm-rest for embalming-tables	329,140	Oct. 27	2196	599	33	420
Clarke, Joseph H., and G. W. Millard, Providence, R. I. Relay for telephone systems	316,238	Apr. 21	1738	556	31	329
Clarke, Josiah L., 6 Westminster Chambers, county of Middlesex, England. Manufacture and preparation of materials to be employed for insulating	318,233	May 19	1747		31	862
Clarke, Robert, Dallas, Tex. Flour and meal bin	320,321	June 16	1708	464	31	1375
Clarke, Royal W., Richland Centre, Wis. Adjusting saws	323,912	Aug. 11	687	192	32	660
Clarke, Samuel, Child's Hill Works, county of Middlesex, England. Manufacture of night-lights	329,536	Nov. 3	155	39	33	535
Clarke, Simpson. (See Brumby and Clarke.)						
Clarke, Thomas C., Sea Bright, N. J. Subway or conduit for cable or electric railways	317,302	May 5	506	129	31	616
Clarke, Willard A., assignor to North Western Manufacturing and Car Company, Stillwater, Minn. Reversing-gear for steam-engines	311,812	Feb. 3	451	123	30	433
Clarke, William E., Providence, R. I. Device for attaching suspender-ends	323,785	Dec. 29	2226	589	33	1417
Clarke, William H., Brooklyn, N. Y. Steam and air brake system	333,197	Dec. 29	2212	736	33	1526
Clarke, William H., Olean, N. Y. Bottle-stopper	314,110	Mar. 17	1458	381	30	1065
Clarke, William H., Olean, assignor of one-half to T. W. Larsen, Bolivar, and M. A. Taok, New York, N. Y. Jar or other covered vessel	314,109	Mar. 17	1457	381	30	1064
Clarkson, Edward H. N., Baltimore, Md. Planing and matching machine	330,564	Nov. 17	1526	408	33	811
Clarkson, Frank S., assignor of one-half to F. B. Sloan, Baltimore County, Md. Lubricating flanges and treads of car-wheels	332,994	Dec. 22	2530	627	33	1471
Clarkson, Joseph T., Amesbury, Mass. Jump-seat carriage	324,222	Aug. 11	1131	307	32	740
Clarkson, William H., New York, N. Y. Copy-holder for type-writing machines	311,292	Jan. 27	1524	415	30	301
Clarkson, William H., New York, N. Y. Copy-holder	311,293	Jan. 27	1526	415 416	30	301
Clarkson, William H., New York, N. Y. Copy-holder and blotter	324,350	Aug. 18	1303	354	32	781
Clarkson, William R., Buffalo, N. Y. Ratchet mechanism for bit-braces, screw-drivers, &c.	315,000	Apr. 7	20	6	31	6
Class, Philip H., Greenfield, Mass. Screw-cutting die	315,728	Apr. 14	1040	274	31	195
Class, William F., and A. J. Weatherhead, assignors of one-third to G. Collins, Cleveland, Ohio. Reciprocating motor	326,545	Sept. 22	1757	460	32	1362

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Class, William F., and A. J. Weatherhead, assignors of one-third to G. Collins, and said Class assignor, by means assignments, of his remaining right to J. J. Mayer, Cleveland, Ohio. Faucet	328,651	Oct. 20	1515	394	33	290
Class, William F., A. J. Weatherhead, and G. Collins; said Class assignor, by means assignments, to J. J. Mayer, Cleveland, Ohio. Force and drain faucet	328,877	Oct. 20	1791	467	33	342
Clanberg, Friedrich A., and E. Butzmühlen, Solingen, Germany. Combined pocket-knife and scissors	318,699	May 26	2369	632	31	984
Claude, Louis G., assignor, by means assignments, to Russell Horseshoe Company, New York, N. Y. Manufacture of horseshoes	324,360	Aug. 18	1304	354	32	781
Claude, Louis G., assignor, by means assignments, to Russell Horseshoe Company, New York, N. Y. Manufacture of horseshoes	324,361	Aug. 18	1306	355	32	781
Claude, Louis G., assignor, by means assignments, to Russell Horseshoe Company, New York, N. Y. Horseshoe-machine	328,461	Oct. 20	1250	325	33	243
Claude, Louis G., assignor, by means assignments, to Russell Horseshoe Company, New York, N. Y. Combined iron and steel bar	328,652	Oct. 20	1516	394	33	290
Claude, Louis G., assignor, by means assignments, to Russell Horseshoe Company, New York, N. Y. Horseshoe	329,141	Oct. 27	2199	570	33	420
Claus, C. H. Theodore, St. Louis, Mo. Trellis for grape-vines	319,674	June 9	951	252	31	1223
Clausen, Adler C., assignor of two-thirds to J. C. Slafter and A. A. Pond, Minneapolis, Minn. Combined letter-scale, envelope-opener, and cigar-cutter	314,801	Mar. 31	2402	636	30	1275
Clausen, Adler C., assignor of one-half to J. C. Slafter, Minneapolis, Minn. Button-fastener	321,690	July 7	679	101	32	71
Claude, Frederick, Elizabeth, N. J. Gas-generator	311,161	Jan. 20	1320	363	30	257
Clausen, Siegfried E., Portland, Oreg. Extension-table	332,590	Dec. 15	1959	513	33	1359
Clawson, Clement C., Newark, N. J., assignor of one-half to Thurber, Whyland & Co., New York, N. Y. Automatic weighing and package-filling machine	315,729	Apr. 14	1040	274	31	195
Clawson, Clement C., Newark, N. J., assignor of one-half to Thurber, Whyland & Co., New York, N. Y. Automatic weighing and package-filling machine	315,730	Apr. 14	1045	275	31	196
Clawson, Clement C., Newark, N. J., assignor of one-half to Thurber, Whyland & Co., New York, N. Y. Automatic weighing and package filling machine	315,731	Apr. 14	1043	275	31	196
Clawson, John S., Richmond, Ind. Roller-skate	319,787	June 9	1106	294	31	1260
Clawson, Leonard E., San Francisco, Cal. Deafening or filling for walls	311,567	Feb. 3	147	42	30	376
Clay, Edward P., Massillon, Ohio. Harrow	312,254	Feb. 17	1084	299	30	565
Clay, Edward P., Massillon, Ohio. Harrow	312,255	Feb. 17	1085	299	30	565
Clay, Frank P., Jr. (See Clay, William H., assignor.)						
Clay, Henry H., and M. D. Phillee, Cedar Falls, Iowa. Roller-bearing	310,383	Jan. 6	297	82	30	57
Clay, Henry T., assignor of one-third to S. G. Diehl, Philadelphia, Pa. Electric railway	327,381	Sept. 29	2925	762	32	1575
Clay, William H., Paris, Ky. Anchor-stake for check-row wires	310,384	Jan. 6	298	82	30	57
Clay, William H., Paris, Ky. Split link	329,142	Oct. 27	2201	570	33	421
Clay, William H., assignor to himself and F. P. Clay, Jr., Paris, Ky. Marking attachment for corn planters	329,143	Oct. 27	2202	570	33	421
Clay, William W., Chicago, Ill. Device for preventing drafts beneath floors	332,491	Dec. 15	1903	474	33	1333
Clayton, Edward, Halifax, Nova Scotia, Canada. Clothing sample	323,113	July 28	2324	616	32	447
Clayton, Herbert, Cincinnati, Ohio. Alcohol-stove	319,955	June 16	1352	355	31	1310
Clayton, James. (See Granger, Almon M., assignor.)						
Clayton, James, Brooklyn, N. Y. Combined pressure and speed governor	315,244	Apr. 7	371	92	31	67
Clayton, James, Brooklyn, N. Y. Sliding connection for machinery	326,028	Sept. 22	1676	491	32	1381
Clayton, John H., St. Johnsbury, Vt. Mechanism for operating road-crossing gates	326,275	Sept. 15	1416	368	32	1290
Clayton, Joshua E., Salt Lake City, Utah Ter. Concentrator	316,116	Apr. 21	1582	411	31	300
Clayton, Joshua E., and S. F. Mackie, Salt Lake City, Utah Ter. Metallurgical apparatus	330,961	Nov. 24	2043	552	33	917
Clayton, Thomas. (See Judge and Clayton.)						
Clayton, William, St. Louis, Mo. Automatic car-brake	315,125	Apr. 7	182	45	31	33
Cleaver, Joseph B., New York, N. Y. Acoustic telephone	325,500	Sept. 1	379	93	32	1068
Clemence, Addison B. (See Hall, Clemence, and Setterwall.)						
Clemens, Ferdinand, What Cheer Iowa. Corn-planter	315,245	Apr. 7	372	92	31	68
Clemens, Samuel L., Hartford, Conn. Game apparatus	324,535	Aug. 18	1539	425	32	894
Clement & Dunbar. (See Dunbar, John H., assignor.)						
Clement, Harvey H., Hazel Dell, Miss. Gate	312,432	Feb. 17	1331	367	30	619
Clement, John F., Philadelphia, Pa. Dental plugger	312,818	Feb. 24	1850	508	30	715
Clement, William B., Philadelphia, Pa. Retainer for the bands of neckscarfs	314,111	Mar. 17	1459	381	30	1065
Clements, John B., St. Louis, Mo. Nut-lock	315,001	Apr. 7	21	6	31	6
Clements, Knud, Chicago, Ill. Latch	328,763	Oct. 20	1650	430	33	316
Clemons, George F., Springfield, Mass. Apparatus for transmitting differential rotary motion	321,086	June 30	2905	772	31	1609
Clemons, Hiram M., Virginia City, Nev. Bridle-bit	327,139	Sept. 29	2601	678	32	1518
Clemons, James H., Dolgeville, and J. W. Bower, Stratford, N. Y. Gluing-table	312,433	Feb. 17	1331	367	30	619
Clemson, George N., Middletown, N. Y. Handsaw	325,157	Aug. 25	2376	654	32	967
Clemson, William, Middletown, N. Y. Bicycle	316,009	Apr. 21	1432	373	31	272
Clemson, William, Middletown, N. Y. Velocipede	324,536	Aug. 18	1540	425	32	894
Clephane, James O., Washington, D. C., assignor to National Typographic Company, of West Virginia. Matrix for printing-surfaces	311,411	Jan. 27	1686	460	30	331
Clephane, James O., Washington, D. C., assignor to National Typographic Company, of West Virginia. Type for matrix-making	311,412	Jan. 27	1687	460	30	331
Clephane, James O., Washington, D. C., assignor to National Typographic Company, of West Virginia. Casting appliance for stereotype-bars	311,413	Jan. 27	1689	461	30	331
Clephane, James O., Washington, D. C., assignor to National Typographic Company, of West Virginia. Producing printing-surfaces	311,414	Jan. 27	1691	461	30	331
Cleveland, Brown & Co. (See Brown, Richard, assignor.)						
Cleveland Electric Motor Company. (See Stockwell, Levi W., assignor.)						
Cleveland, Erasmus L., Pittsburg, assignor of one-half to A. C. Milliken, Bennett Station, Pa. Car-axle lubricator	315,002	Apr. 7	22	6	31	6
Cleveland, George H. (See Miller and Cleveland.)						
Cleveland, Thomas B., Newark, N. J. Inkstand	311,415	Jan. 27	1692	461	30	331
Cleves, Charles, Omaha, Nebr. Rubber shoe	311,473	Feb. 3	15	4	30	351
Cleves, William B., and F. G. Ryan, Brattleborough, Vt. Combined foot-treadle and rod	322,793	July 21	1854	493	32	354
Cliff, Edward, assignor to Cliff & Righter Company, (limited,) Oswego, N. Y. Elliptic spring	326,847	Sept. 22	2205	575	32	1442
Cliff & Righter Company. (See Cliff, Edward, assignor.)						
Clifford, George A., Peabody, Mass. Plane	317,092	May 5	914	54	31	562
Clifford, Henry A., Allegheny, Pa. Covering for gas, water, and oil pipes	329,720	Nov. 3	398	109	33	581
Clifford, James P., New Haven, Conn. Adjustable apparatus for gas machines and mixers	317,975	May 19	1409	378	31	799

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Clift, Charles W. (See Smith and Clift.)						
Climax Fuse Company. (See Andrews, Albert F., assignor.)						
Cline, John C., Philadelphia, Pa. Velocipede	315,003	Apr. 7	93	6	31	7
Clinch, Andrew F., York, Pa. Boiler	338,189	Oct. 13	886	230	33	168
Clinchard, Jacob F., Chicago, Ill. Fire-brick and packing for furnaces and other purposes.	314,802	Mar. 31	9403		30	1275
Cline, George J., Gothen, Ind. Latch	321,279	June 30	3142	637	31	1853
Cline, George J., Gothen, Ind. Wheel-harrow	322,258	July 14	1144	299	32	217
Cline, George J., Gothen, Ind. Step-ladder hinge	325,501	Sept. 1	380	93	32	1056
Cline, George J., Gothen, Ind. Wrench	332,051	Dec. 8	1197	312	33	1221
Cline, Leon, assignor of one-half to A. Vallee, St. Louis, Mo. Washing-machine	318,234	May 19	1749	467	31	862
Cline, Leon, assignor of one-fourth to S. W. Cline, Chicago, Ill. Composition fuel	330,000	Nov. 10	783		33	658
Cline, Samuel W. (See Cline, Leon, assignor.)						
Cline, William G., Gallatin, Mo. Door-latch	332,095	Dec. 22	2531	667	33	1471
Clinnes, Patrick, Martinsburg, Mo. Sulky-plow	316,239	Apr. 21	1740		31	329
Clingman, Francis, Albany, Oreg. Apple paring and coring machine	329,363	Oct. 27	2525	650 661	33	480
Clink, Charles W. (See Kizer and Clink.)						
Clinkscales, Albert M., et al. (See Jernagan, Alexander J., assignor.)						
Clinton, Andrew B., Milford, N. Y. Car-coupling	315,004	Apr. 7	94	6	31	7
Clinton, Charles, Spring City, Tenn. Railway-switch	319,675	June 9	952	262	31	1232
Clinton, Fred S., assignor of two-thirds to J. B. Watt and E. Schmidt, Bellaire, Ohio.						
Bung	330,222	June 16	1709	454	31	1375
Clock, Willard W., La Grange, Ga. Oil-mat	315,126	Apr. 7	183	45	31	33
Clopton, John B., Bastrop, Tex. Saw-gum	323,114	July 28	2324	616	32	447
Cloze, Philip C., Augusta, Ga. Cotton-press	319,196	June 2	316	84	31	1106
Closterman, Charles, Cincinnati, Ohio. Chair-seat	316,333	Apr. 21	1859	492	31	349
Closterman, Charles, Cincinnati, Ohio. Chair	320,629	June 23	2309	609	31	1491
Clot, John B., San Francisco, Cal. Air or gas compressing pump	325,395	Sept. 1	245	61	32	1062
Clother, Jane A., Cumberland, Wis. Kettle-drainer and steam ventilator and conductor	326,629	Sept. 22	1878	492	32	1382
Cloud, Daniel R., Detroit, Mich. Double-acting pump	323,398	Aug. 4	20	5, 6	32	526
Cloud, John W. (See Ely and Cloud.)						
Cloud, John W., Altoona, Pa. Lubricator for locomotive or other engines	312,973	Feb. 24	2048	559	30	750
Cloud, John W., Altoona, Pa. Draft apparatus for cars	324,084	Aug. 11	915	253	32	700
Cloud, John W., Altoona, Pa. assignor of one-third to C. F. Houghton, Corning, N. Y. Lens	325,656	Sept. 8	584	148	32	1131
Cloud, John W., and S. Porcher, Altoona, Pa. Lubricator for steam-engines	324,362	Aug. 18	1309	355 356	32	782
Cloud, John W., and A. Vogt, Altoona, Pa. Motor	322,794	July 21	1856	493	28	354
Cloud, John W., and A. S. Vogt, Altoona, Pa. Device for securing doors	327,238	Sept. 29	2726	708	32	1542
Cloud, Silas, Huntington, Ind. Dust-pan	332,591	Dec. 15	1960	513	33	1360
Cloudman, Francis A., Cumberland Mills, Me. Centrifugal machine	328,190	Oct. 13	887	231	33	168
Cloudman, Francis A., Cumberland Mills, Me., assignor to S. D. Warren, Boston, Mass.						
Apparatus for the recovery of soda	319,956	June 16	1353	355	31	1311
Clough, Francis W., Springfield, Mass. Gearing	329,721	Nov. 3	399	102	33	581
Clough, James D. (See Freidel and Clough.)						
Clough, Jefferson M., assignor to Winchester Repeating Arms Company, New Haven, Conn. Railway-torpedo	311,416	Jan. 27	1693	462	30	331
Clough, Theodore, Dobbs Ferry, N. Y. Gas-burner	314,653	Mar. 31	2188	580	30	1234
Clough, William R., Brooklyn, N. Y. Capsule for bottles	332,382	Dec. 15	1668	437	33	1310
Clow, James B. (See Jewell, Omar H., assignor.)						
Clow, William M. (See Hutchins, William J., assignor.)						
Clow, William M., Will County, Ill. Device for forming openings in wire fences	315,569	Apr. 14	860	228	31	161
Clow, William M., East Wheatland, Ill. Wire fence-stay	323,399	Aug. 4	21	6	32	527
Clover, James L., Plantersville, Ark. Combination-plow	313,473	Mar. 10	608	157	30	896
Clover, William B., Decatur, Tex. Bedstead	330,672	Nov. 24	1922	521	33	895
Clute, George M., Troy, N. Y. Lap	316,117	Apr. 21	1585	412	31	301
Clymer, William S., Westerville, Ohio. Nut-lock	314,112	Mar. 17	1460	362	30	1065
Clyne, James B., assignor of one-half to White Sewing Machine Company, Cleveland, Ohio.						
Metal-screw machine	323,198	Dec. 29	2818	736 737 738	33	1527
Coale, Joseph M., Baltimore, Md. Muffler and safety-valve	315,732	Apr. 14	1052	275 276	31	197
Coalter, John A., Wolf Creek, W. Va. Bee-hive	324,657	Aug. 18	1714	472	32	856
Coates, Abraham, Watertown, N. Y. Bobbin-winder	329,144	Oct. 27	2203	571	33	421
Coates, George H., Worcester, Mass. Animal-shears	315,733	Apr. 14	1053	276	31	198
Coates, Henry, Newark, N. J. Safety-stirrup	332,052	Dec. 8	1198	313	33	1221
Coates, Joseph H. (See Potts, Joseph C., assignor.)						
Coats, Milo L., assignor of one-half to E. W. J. Hawkins, Starksborough, Vt. Tool-handle						
Coats, Samuel, Bridgeport, Pa. Animal-releasing device	320,815	Nov. 3	527	134	33	604
Cobb, Daniel I., Ypsilanti, Mich. Gate	327,239	Sept. 29	2727	708	32	1542
Cobb, Edward S., Terre Haute, Ind. Lathe	329,276	Oct. 27	2387	617	33	457
Cobb, Edward S., Terre Haute, Ind. Drawing-stand	314,433	Mar. 24	1885	503	30	1154
Cobb, Edward S., Terre Haute, Ind. Tool-feeding mechanism for lathes	315,246	Apr. 7	374	92	31	68
Cobb, Francis. (See Weeks, Abner B., assignor.)						
Cobb, Henry B. (See Cobb, Sam B., assignor.)						
Cobb, Henry B., Wilmington, Del. Insulating-tube for electric wires	330,873	Nov. 24	1924	522	33	895
Cobb, Henry B., Wilmington, Del., assignor to Hale & Kilburn Manufacturing Company, Philadelphia, Pa. Car-seat	318,450	May 26	2034	549	31	923
Cobb, John P., College City, Cal. Boring-machine	324,920	Aug. 25	2070	566 567	32	930
Cobb, John P., College City, Cal. Pump	326,201	Sept. 15	1312	340	32	1271
Cobb, Oliver P., Aurora, Ind. Trace and hame connection	326,546	Sept. 22	1758	460	32	1362
Cobb, Sam B., Chicago, Ill., assignor to H. B. Cobb, Wilmington, Del. Insulating-tube for electric wires						
Coble, Albert H., Frankfort, Ind. Carpet-stretcher	330,874	Nov. 24	1925	523	33	895
Cobleigh, Charles C., Boston, Mass. Seamed fabric	328,653	Oct. 20	1518	394	33	290
Coburn, Henry W., and D. B. Van Fleet, Newville, Ind. Ribbon-holder	319,453	June 9	654	176	31	1179
Coburn, Samuel, Altoona, Pa. Pipe-coupling machine	331,616	Dec. 1	565	137	33	1096
Cochran, John J., et al. (See Iske, Anthony, assignor.)						
Cochran, Rufus F., Chiversville, Ga. Cotton-chopper	323,497	Aug. 4	147	44	32	549
Cochran, Rufus M., Jacinto, Cal. Grain-separator	332,786	Dec. 22	2236	590	33	1418
Cochrane, Charles, Stourbridge, county of Worcester, England. Apparatus for drying air for furnaces and other purposes	323,395	Dec. 29	3077	808	33	1574
Cochrane, David, Philadelphia, Pa. Feed-water heater and purifier	313,287	Mar. 3	313	90	30	842
Cochrane, Henry, and J. M. Day, Dublin, Ireland. Bottle and stopper	313,039	Mar. 3	33	8	30	784

Alphabetical list of patentees—Continued.

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Cochrane, John C., Farmingdale, N. J., assignor of one-sixth to W. H. Brooks, Alexandria, Va. Machine for forming screw-threads on bolts	316,010	Apr. 21	1433	373	31	272
Cochrane, Richard. (See Crossley and Cochrane.)						
Cochrane, Samuel, Arlington, Va. Veterinary surgical instrument	319,454	June 9	655	176	31	1179
Cochrane, William F. (See Smith and Cochrane.)						
Cochrane, William F., Indianapolis, Ind., and G. T. Smith, Jackson, Mich. Flour-bolt	311,873	Feb. 10	541	148	30	457
Cochrane, William F., Harper's Ferry, W. Va. Harvester	325,319	Sept. 1	119	34	32	1037
Cochrane, William F., Cambridge City, Ind. Gearing and relief mechanism for driving rolls	327,240	Sept. 29	2728	709 710	32	1542
Cocker, Frederick, Danbury, Conn., and G. Yule, Newark, N. J. Hat-curling machine	323,296	July 28	2583	687	32	493
Cocker, Frederick, Danbury, Conn., and G. Yule, Newark, N. J., assignors to Hat Curling Machine Company, Danbury, Conn. Hat-curling machine	320,115	June 16	1570	414 415	31	1350
Cockrell, Albin, Lanar, Mo. Churn	327,241	Sept. 29	2734	710	32	1543
Cockrell, Moses. (See Bradish, Nelson P., assignor.)						
Cockrell, William A., Cleveland, Ohio. Grain-scourer	319,788	June 9	1107	294	31	1960
Codd, Hiram, London, England. Apparatus for opening bottles used for containing aerated liquids and which are fitted with internal stoppers	326,630	Sept. 22	1879	492	32	1362
Codding, D. Edgar, and O. H. Atwood, North Attleborough, Mass. Bracelet	310,795	Jan. 13	812	290	30	159
Codling, Robert B. (See Ingraham and Codling.)						
Cody, Elmore D., Dunkirk, N. Y. Universal joint for steam, water, and other liquid pipes	325,056	Aug. 25	2253	619	32	964
Cody, Elmore D., assignor of one-half to J. W. Hoys, Erie, Pa. Steam car-heater	322,017	Oct. 27	2023	525	33	390
Coe, Charles E., Leesburg, Kans., assignor of two-thirds to L. G. Fath, A. Sawyer, and E. L. Waggoner, Hillsborough, Ill. Screw-threading machine	317,303	May 5	508	129	31	616
Coe, Henry I. (See Thackston, Richard D., assignor.)						
Coes, Zoroaster B. (See Brainard and Coes.)						
Coes, Zoroaster B., Hyde Park, Mass., and G. W. Miller, Woonsocket, R. I., assignors to A. H. Brainard, Hyde Park, Mass. Gear-cutting machine	310,796	Jan. 13	813	220	30	159
Coester, Charles, Jr., Bridgeport, Conn. Toy	324,233	Aug. 11	1132	308	32	740
Coffee, Christopher C., Memphis, Tenn. Water-elevating bucket	313,288	Mar. 3	364	90	30	843
Coffee, Robert W., Liberty, Va. Soldering-iron	325,158	Aug. 25	2377	655	32	988
Coffee, Robert W., assignor of one-half to G. T. Cauthorn, Liberty, Va. Tobacco-drier	320,459	June 23	2085	549	31	1450
Coffey, Henry D., assignor of one-third to L. N. Miller, Massie's Mills, Va. Weighing scale	318,451	May 26	2036	549 550	31	923
Coffey, Robert S., Waco, Tex. Necktie and collar fastener	331,279	Dec. 1	17	5	33	1004
Coffield, Peter T., New Carlisle, Ohio. Pump-valve	322,795	July 21	1857	494	32	355
Coffield, Peter T., New Carlisle, Ohio. Wind-engine	322,796	July 21	1859	494	32	355
Coffield, Peter T., assignor to himself, C. H. Neff, and A. L. Wooley, New Carlisle, Ohio. Windmill	310,385	Jan. 6	289	82	30	57
Coffin, Arthur S., New Bedford, Mass. Paper box	317,976	May 19	1411	371	31	799
Coffin, Charles A., and T. Ferguson, Parkersburg, Iowa. Gate	318,355	May 19	1914	516	31	892
Coffin, David N. B., Newton Center, Mass. Odometer	323,498	Aug. 4	148	45	32	549
Coffin, Eben M., Hubbardston, Mass. Blind-slat fastening	313,919	Mar. 17	1215	316	30	1019
Coffin, Francis A., Indianapolis, Ind. Slatted desk-curtain	320,913	June 30	2672	710	31	1567
Coffin, Galen, Boston, Mass. Saw-clamp	319,455	June 9	656	177	31	1179
Coffin, Galen, Boston, Mass. Christmas-tree holder	328,007	Oct. 13	653	171	33	125
Coffin, John. (See Leighton and Coffin.)						
Coffin, John F. (See Rudling and Coffin.)						
Coffin, Norman E., Elm Hall, Mich. Churn	322,349	July 14	1261	320	32	239
Coffin, Robert A., Slatington, Pa. Slate-shaving machine	315,247	Apr. 7	376	92	31	68
Coffin, Thaddeus S., Boston, Mass. Finger-ring tray	329,018	Oct. 27	2025	525	33	390
Coffin, Zebulon E., Boston, Mass. Hydrant	320,377	Nov. 17	1288	341	33	706
Coffman, David N., et al. (See Glenn, Joseph M., assignor.)						
Coffman, John M., Washington, Ohio. Fence	315,248	Apr. 7	378	93	31	68
Cogan, Robert B., assignor of two-thirds to S. C. Collin and J. Rinard, Braddock, Pa. Pipe-coupling	318,356	May 19	1914	516	31	892
Coggshall, William T., Lowell, Mass. Loom-shuttle spindle	323,115	July 28	2326	616	32	447
Cogin, Charles W., Lynn, Mass. Nail-making machine	317,928	May 19	1337	359	31	777
Cogswell, Merritt H., Blissfield, Mich. Harrow	323,400	Aug. 4	22	6	32	537
Cogswell, Mortimer C., New York, N. Y. Grinding-mill	324,363	Aug. 18	1310	356	32	729
Cogswell, Thomas, Wellesley Hills, Mass. Dental tool	312,092	Feb. 10	856	235	30	516
Cohee, John D., and G. R. Gamble, Frankfurt, Ind. Washing-machine	327,522	Oct. 6	33	7	33	8
Cohen, Ephraim M. (See Gahler and Pilz, assignors.)						
Cohen, Robert L., assignor of one-half to S. G. Diehl, Philadelphia, Pa. Electric railway	327,322	Sept. 29	2926	763	32	1576
Cohin, Stanislas F., Villaines-la-Galois, assignor to Roquet & Cohin, Rouen, France. Bor-ing-machine	326,202	Sept. 15	1313	340 341	32	1272
Cohlman, William, Philadelphia, Pa. Conduit for electrical conductors	319,197	June 2	317	84	31	1107
Cohn & Co., M. (See Hilborn, Julius, assignor.)						
Cohn, Julius M., New York, N. Y. Corset-clasp	310,797	Jan. 13	814	221	30	160
Cohn, Moritz, New York, N. Y. Corset	310,798	Jan. 13	815	221	30	160
Cohn, Moritz, New York, N. Y. Corset	319,676	June 9	853	253	33	1233
Cohn, Moritz, New York, N. Y. Elastic gore for wearing-apparel	322,492	Dec. 15	1804	474	33	1333
Cohn, Philip, Nuevo Laredo, Mexico. Safety attachment for elevator-cars	315,734	Apr. 14	1055	276	31	198
Coholan, Michael J., New Britain, Conn. Ventilated sewer-pipe	318,452	May 26	2038	550	31	924
Cohrs, Johann H., Hamburg, Germany. Drier	319,562	June 9	803	214	31	1205
Colinet, Jean F., Lyons, France. Furnace	315,478	Apr. 14	696	182	31	129
Colit, Tracy. (See Taylor, Crispin H., assignor.)						
Cokayne, William, Geetingsville, Ind. Fence	320,223	June 16	1710	454	31	1375
Colahan, Charles, Cleveland, Ohio. Grain-binder	315,479	Apr. 14	697	182 183	31	130
Colahan, Charles, Cleveland, Ohio. Grain-binder	315,480	Apr. 14	699	183 184	31	130
Colahan, Charles, Cleveland, Ohio. Grain-binder	315,481	Apr. 14	701	185	31	131
Colahan, Charles, Cleveland, Ohio. Tag cutting and punching machine	315,482	Apr. 14	703	185 186	31	131
Colburn, Albert L., Derby, Conn. Device for transmitting power	315,735	Apr. 14	1056	276	31	198
Colburn, George S., Gardner, Mass. Boot and shoe blacking	325,320	Sept. 1	120		32	1036
Colburn, Ledyard, assignor of one-half to R. R. Colburn, Birmingham, Conn. Electric-arc lamp	316,240	Apr. 21	1742	457	31	329
Colburn, Ledyard, Boston, Mass., assignor of one-half to R. R. Colburn, Ansonia, Conn. Hydrocarbon-burner	324,816	Aug. 25	1935	532	32	905

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Colburn, Richard R. (See Colburn, Ledyard, assignor.)						
Colby, Branch H., Hillsdale, Mich. Prescription-file for preserving prescriptions	327,140	Sept. 29	2602	678	32	1518
Colby, Caleb K., Brooklyn, N. Y. Watch-case	333,057	Dec. 22	2909	683 684	33	1485
Colby, Edward A., Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Apparatus for treating carbons for incandescent electric lights	312,532	Feb. 17	1503	410	30	643
Colby, Edward J., Cincinnati, Ohio. Lock	312,819	Feb. 24	1851	508	30	716
Colby, Edward J., Cincinnati, Ohio. Watchman's time-recorder	330,116	June 16	1573	415	31	1350
Colby, George H., Boston, Mass. Car-coupling	329,537	Nov. 3	156	30	33	535
Colby, James F., Buffalo, N. Y. Sleeping-car	313,576	Mar. 10	732	192	30	923
Colby, James F., Buffalo, N. Y. Baby-carriage	326,954	Sept. 29	2362	617	32	1476
Colby, John D., and J. F. Luther, Lowell, Mass. Store-tongs	316,524	Apr. 28	2130	561	31	405
Colby, John N., assignor of one-half to S. E. Sullivan, New London, Conn. Window-awning	328,567	Oct. 20	1388	362	33	268
Colby Wringer Company. (See Kirby, James L., assignor.)						
Coldwater Road Cart Company. (See Schmedlen, William H., assignor.)						
Cole, Alma B., Kingston, Ill. Wheel-guard	325,821	Sept. 8	820	205	32	1173
Cole & Burnham Company, Eaton. (See Tomlinson, Edwin R., assignor.)						
Cole, C. O. et al. (See Shiek, Daniel W., assignor.)						
Cole, Cary O., assignor of two-thirds to D. W. Shiek, Letts, Iowa, and E. G. Grosjean, Mount Eaton, Ohio. Sash-fastener	326,848	Sept. 22	2207	575	32	1442
Cole, E. C. (See Tyler, Aaron J., assignor.)						
Cole, Isaac, Brooklyn, N. Y. Chain for bracelets	332,053	Dec. 8	1199	313	33	1221
Cole, James W., assignor of one-half to G. T. Moore, Westfield, Mass. Combined ripper and cutter	329,019	Oct. 27	2026	525	33	391
Cole, James W., and H. Knudsen, Greencastle, Ind.; said Knudsen assignor to said Cole. Lightning-rod standard	332,383	Dec. 15	1669	437	33	1310
Cole, John M., et al. (See Dalton, William D., assignor.)						
Cole, Sherman M., Anamosa, Iowa. Measuring-pump	324,301	Aug. 11	1222	332	32	758
Cole, Thomas H., East Albany, and C. McCarrick, Tivoli, N. Y. Combination-lock	325,321	Sept. 1	121	34, 35	32	1038
Cole, Warren, Jr., Keokuk, Iowa. Axle-lubricator	322,905	July 28	2028	535	32	391
Cole, William A. (See Fairbanks and Cole.)						
Cole, William E., Montgomery, Ala. Lumber-drier	319,677	June 9	954	253	31	1233
Cole, William H., Marysville, Ohio. Book-holder	324,234	Aug. 11	1132	306	32	741
Cole, William M. A., Baltimore, Md. Canopy	326,849	Sept. 22	2206	576	32	1442
Cole, William P., Montreal, Quebec, Canada. Stove-board	317,519	May 12	797	204	31	676
Cole, William R. (See Jackson and Cole.)						
Cole, William R., Pottsville, Pa. Combined desk-pad, portfolio, and calendar	311,103	Jan. 20	1245	341	30	243
Cole, Winant B., Brooklyn, N. Y. Gas-burner	328,839	Oct. 20	1747	455	33	334
Colgate, Samuel J. (See Pulsifer, William H., assignor.)						
Coleman, Abner, Newark, N. J. Drying apparatus	322,041	July 14	868	225 226	32	166
Coleman, Abner W. (See Miller, Bower, and Coleman.)						
Coleman, Ezra, New York, N. Y. Ore-separator	327,766	Oct. 6	341	88	33	60
Coleman, Francis W., Rodney, Miss. Vehicle-seat	322,684	July 21	1710	453	32	328
Coleman, Hamilton D., New Orleans, La. Reversing-gear	322,797	July 21	1859	494	32	355
Coleman, James H., Montrose, Mo. Axle-lubricator	329,816	Nov. 3	528	134	33	604
Coleman, John A., Providence, R. I. Horseshoe-nail	323,896	Dec. 29	3079	804	33	1574
Coleman, Joseph W., Schooley's Mountain, N. J. Folding barrow-truck	329,023	Nov. 3	972	70	33	557
Coleman, Samuel T. J., et al. (See Kisinger, William S., assignor.)						
Coleman, William F. (See Burdick and Coleman.)						
Colles, Charles N. (See Sardy and Colles.)						
Colles, David H., New York, N. Y. Combined braiding and cording attachment for sewing-machines	318,357	May 19	1915	516	31	892
Colles, Derrick L., Brooklyn, N. Y. Anchor	327,767	Oct. 6	343	88	33	60
Colles, Erskine A., Philadelphia, assignor of one-half to W. D. Billmeyer, York, Pa. Pill-machine	332,493	Dec. 15	1805	474	33	1333
Colles, Erskine A., Philadelphia, assignor of one-half to W. D. Billmeyer, York, Pa. Machine for making pills, lozenges, &c.	332,494	Dec. 15	1807	475 474	33	1334
Colles, Henri H., assignor to H. Troemner, Philadelphia, Pa. Grinding-mill	318,700	May 26	2370	632	31	964
Colles, Henri H., assignor to H. Troemner, Philadelphia, Pa. Grinding-mill	331,623	Dec. 1	663	164	33	1115
Collesworthy, Charles W., Boston, assignor of two-thirds to J. R. Carter, Newton, and E. H. Palmer, Reading, Mass. Tool-holding attachment for lathes	319,071	June 2	172	46	31	1080
Collin, Theodore F., Bodine, Pa. Manufacture of tanning-extract	313,177	Mar. 3	197		30	812
Collard, Richard M., assignor to L. W. Fairchild, New York, N. Y. Combined match-box and cigar-cutter	311,220	Jan. 27	1430	390	30	283
Collard, Richard M., assignor to L. W. Fairchild, New York, N. Y. Cigar-cutter	319,456	June 9	657	177	31	1179
Collender, Hugh W., New York, N. Y. Billiard-table cushion. (Reissue.)	10,647	Sept. 20	3079	802	32	1602
Coller, Philip A., New Gloucester, Me. Skimming device for creaming-cans	323,297	July 28	2587	687	32	493
Colley, George H., assignor to C. W. Higby, Jackson, Mich. Corset-clasp	314,434	Mar. 24	1867	503	30	1154
Colley, M. J., et al. (See Cathcart, James L., assignor.)						
Collie, Wesley F., Barren Fork, Ark. Gin-saw-gummer	328,654	Oct. 20	1520	385	33	291
Collins, Simon C., et al. (See Cogan, Robert B., assignor.)						
Collings, Edward Z., Camden, N. J., and C. F. Pike, Philadelphia, Pa. Apparatus for preserving wood	310,880	Jan. 20	920	251	30	185
Collings, Edward Z., Camden, N. J., and C. F. Pike, Philadelphia, Pa. Refrigerator	311,813	Feb. 3	453	123	30	433
Collings, Edward Z., Camden, N. J., and C. F. Pike, Philadelphia, Pa. Refrigerator	311,814	Feb. 3	454	123	30	434
Collings, Edward Z., Camden, N. J., and C. F. Pike, Philadelphia, Pa. Preserving wood	317,730	May 12	1066	279	31	726
Collins, Alexander, Tarkio, Mo. Wall-paper	332,054	Dec. 8	1199		33	1221
Collins, Alonzo, Chetopa, Kans. Trace-holder for back-bands	325,502	Sept. 1	320	93	32	1066
Collins, Benjamin, Oakland, Cal. Machine for cutting corn from the cob	327,864	Oct. 6	464	121	33	82
Collins, Byron, Galion, Ohio. Revolving sulky hay-rake	329,055	Dec. 8	1200	313	33	1221
Collins, Charles H., assignor of one-half to R. C. Collins, Elkton, Md. Whiffletree-hook	323,116	July 26	2327	616	32	447
Collins, Charles M., South Bend, Ind. Machine for welding tires	330,875	Nov. 24	1927	522	33	895
Collins, Eugene F., Anson, Me. Hoof-pad	323,914	Aug. 11	689	193	32	660
Collins, George. (See Class and Weatherhead, assignors.)						
Collins, George. (See Class, Weatherhead, and Collins.)						
Collins, George, et al. (See Class and Weatherhead, assignors.)						
Collins, George H. (See Smith and Collins.)						
Collins, James P., New London, Conn. Water-wheel	331,184	Nov. 24	2336	632	33	971
Collins, John F., New York, N. Y. Whiffletree	314,803	Mar. 31	2404	636	30	1275
Collins, John F., New York, N. Y. Elastic whiffletree	314,804	Mar. 31	2405	636	30	1275
Collins, John H., Parma, N. Y. Fruit-drier	328,462	Oct. 20	1251	325	33	244

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Collins, John T., Norwich, Conn. Lounge	323,915	Aug. 11	680	193	32	680
Collins, Joseph B., Grand Rapids, Mich. Water-wheel	326,718	Sept. 22	2007	525	32	1406
Collins, Joseph H., Jr. (See Granger and Collins.)						
Collins, Joseph S. (See Ulmer and Collins.)						
Collins, Major, Brazil, assignor of one-half to D. W. Minshall, Terre Haute, Ind. Machine for making car-coupling pins	330,907	Nov. 10	1053	975	32	713
Collins, Michael T., Oil City, Pa. Machine for shaping the ends of sucker-rods	328,383	Oct. 13	1149	295 266	33	217
Collins, R. C. (See Collins, Charles H., assignor.)						
Collins, Samuel B., Galion, Ohio. Revolving sulky hay-rake	331,478	Dec. 1	317	85	33	1054
Collins, Simon C., Marietta, Pa. Detachable brush-handle	312,611	Feb. 24	1579	432	30	086
Collins, Stephen, Huntsville, Ala. Fruit-drier	318,543	May 26	2180	583	31	948
Collins, Stephen, Huntsville, Ala., assignor of two-thirds to J. S. Elder and A. B. Maxey, Clarksville, Tenn. Tobacco-drier	321,797	July 7	531	140	32	99
Collins, Sylvester S., Walker, Mo. Machine for working well-augers	331,617	Dec. 1	566	138	33	1096
Collins, W. Newton, et al. (See Wittmack, Charles A., assignor.)						
Collins, Wallace G. (See Sloan, Leander E., assignor.)						
Collins, William F., et al. (See Wohlforth and Wakefield, assignors.) (Reissue.)						
Collins, William I., Jackson, Ga. Fertilizer-distributor	329,020	Oct. 27	2027	525	33	391
Collis, John, Des Moines, Iowa. Boiler-furnace	311,874	Feb. 10	543	149	30	458
Collis, John, Des Moines, Iowa. Boiler-furnace	326,547	Sept. 22	1761	461	32	1363
Collyer, Charles W. and W. C., assignors of one-half to P. B. Ball and G. Jenkins, Lynn, Mass. Sewing-machine or other motor	322,422	July 21	1363	356	32	205
Collyer, Charles W. and W. C., assignors of one-third to C. H. Ward, Lynn, Mass. Seam-rubbing machine	324,085	Aug. 11	916	254	32	701
Collyer, Charles W. and W. C., assignors of one-third to C. H. Ward, Lynn, Mass. Seam-beating machine	324,086	Aug. 11	918	254	32	701
Collyer, William C. (See Collyer, Charles W. and W. C.)						
Colman, Hutson B., Kalamazoo, Mich. Wind-engine	317,093	May 5	215	54	31	502
Colman, Hutson B., Kalamazoo, Mich. Wind-engine	317,628	May 12	942	242	31	702
Colman, Hutson B., Kalamazoo, Mich. Power-windmill	318,453	May 26	2039	550	31	924
Colman, Hutson B., and G. Turner, Kalamazoo, Mich. Windmill	317,731	May 12	1068	279	31	726
Colman, Hutson B., and G. Turner, Kalamazoo, Mich. Power-windmill	319,392	June 2	556	151	31	1153
Colnon, George A. (See McClesney, Reuben, assignor.)						
Colony, Frank H., Wilton, N. H. Setting spindle-steps	332,328	Dec. 15	1586	416	33	1996
Colony, Josiah D., Philadelphia, Pa. Refrigerator	330,208	Nov. 10	1055	275	33	714
Colt, Samuel P., et al. (See Cary, Charles H., assignor.)						
Colt, Samuel S., Orange, N. J. Alarm-clock	313,656	Mar. 10	845	219	30	944
Colt, Samuel S., Orange, N. J. Bevel and miter	322,906	July 28	2029	536	32	392
Colt, Samuel S., Orange, N. J. Combined bevel, miter, and try-square	330,378	Nov. 17	1289	342	33	767
Colton, Albert R. (See Gilbert, Thomas S., assignor.)						
Colton, Arthur L., Milwaukee, Wis. Letter-file	331,185	Nov. 24	2338	633	33	971
Colton, C. S., et al. (See Anderson, Abraham, assignor.)						
Colton, F., et al. (See Anderson, Abraham, assignor.)						
Colton, G. D., et al. (See Anderson, Abraham, assignor.)						
Colton, George A., Syracuse, N. Y. Till-alarm	312,707	Feb. 24	1702	468	30	680
Colton, George A., Syracuse, N. Y. Clasp	314,366	Mar. 24	1796	478	30	1137
Colton, George A., Syracuse, N. Y. Vice	320,224	June 16	1710	455	31	1375
Colton, George A., assignor of one-half to Syracuse Bolt Company, Syracuse, N. Y. Shoe-fastening	311,104	Jan. 20	1246	341	30	944
Colton, Octavius J., Galesburg, Ill. Check-rower	321,067	June 30	2206	773	31	1609
Colts Patent Fire Arms Manufacturing Company. (See Elsbets, Carl J., assignor.)						
Colts Patent Fire Arms Manufacturing Company. (See Franklin, William B., assignor.)						
Colts Patent Fire Arms Manufacturing Company. (See Knoss, Franklin F., assignor.)						
Columbia City Manufacturing Company. (See Anderson and Wilcox, assignors.)						
Colville, Charles S., Newark, Ohio. Spark-arrester	319,457	June 9	659	177	31	1179
Colvin, Benoni, and J. Wolfey, Freeport, Ill. Spring-hinge	318,418	May 19	1992	536	31	906
Colvin, Raymond N. (See Arnold, William, assignor.)						
Colwell, Augustus W., New York, N. Y. Vacuum-pan	330,209	Nov. 10	1056	276	33	714
Colwell, Edward, Milwaukee, Wis. Double-tree	328,850	Sept. 22	2209	576	32	1448
Colwell, William S., Pittsburg, Pa., assignor to Triple Thermic Motor Company, New York, N. Y. Triple thermic motor	313,178	Mar. 3	198	44, 49	30	812
Colwell, William S., Pittsburg, Pa., assignor to Triple Thermic Motor Company, New York, N. Y. Triple thermic motor	313,179	Mar. 3	203	49, 50	30	814
Colwell, William S., Pittsburg, Pa., assignor to Triple Thermic Motor Company, New York, N. Y. Triple thermic motor	313,180	Mar. 3	206	50	30	815
Colwell, William S., Pittsburg, Pa., assignor to Triple Thermic Motor Company, New York, N. Y. Triple thermic motor	313,181	Mar. 3	207	50, 51	30	815
Colwell, William S., Pittsburg, Pa., assignor to Triple Thermic Motor Company, New York, N. Y. Triple thermic motor	313,182	Mar. 3	210	51	30	816
Colwell, William S., Pittsburg, Pa., and A. J. Davis, assignors to Triple Thermic Motor Company, New York, N. Y. Triple thermic motor	313,183	Mar. 3	213	51 52 53	30	816
Combes, Frank A., Cleveland, Ohio. Roller-skate	330,096	Nov. 10	917	238	33	686
Combination Power Punch Eyeletting Machine Company. (See Hawkins, Lorenzo D., assignor.)						
Combs, Abel, Philadelphia, Pa., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Wick-raiser for lamps	324,087	Aug. 11	920	254	32	701
Combs, Charles P., Newark, N. J. Fastening for doors	329,624	Nov. 3	273	71	33	557
Combs, George E., Utica, N. Y. Button-hole cutter	330,773	Nov. 17	1790	482	33	863
Combs, Hiram S., Detroit, Mich. Wire-netting machine	310,254	Jan. 6	123	34 35 36	30	25
Combs, John, assignor of one-half to C. Thomas, Rushville, Ohio. Stove-pipe ventilator ..	313,809	Mar. 10	1048	269	30	980
Comegys, Edward W., Edesville, Md. Corn-shocker	326,403	Sept. 15	1582	411	32	1322
Comegys, Edward W., Edesville, Md. Corn-harvester	329,438	Nov. 3	16	4, 5	33	507
Comer, John B., Viola, Tenn. Hay elevator and carrier	329,021	Oct. 27	2028	526	33	391
Comer, Joseph A., assignor to National Saw Guard Company, Indianapolis, Ind. Saw guard	321,484	July 7	103	28	32	21
Comins, Frank B., New Bedford, Mass. Automatic sprinkler	322,685	July 21	1711	453	32	398
Comins, Thomas B., Jr., New York, N. Y. Door check and closer	332,056	Dec. 8	1201	313	33	1221
Comly, James, Philadelphia, Pa., assignor to G. W. Root, Hartford, Conn. Preserve-jar stopper	323,636	Aug. 4	336	96	32	584

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Commans, Robert E., et al. (See Wynne, George F., assignor.)						
Commercial Telegram Company. (See Dyer, Richard N., assignor.)						
Compagnie de Fives Lille. (See Dumoulin, Adrien J. A., assignor.)						
Compound Lumber Company. (See Cummings, Daniel M., assignor.) (Reissue.)						
Compressed Paper Box Company. (See House, Henry A., assignor.)						
Compressed Steel Company. (See Hinsdale, William R., assignor.)						
Compton, James E., Lynn, Mass. Wheel for grinding or polishing surfaces	310,799	Jan. 13	816	221	30	160
Compton, Porter C., Ames, Iowa. Automatic railway-track inspector	331,684	Dec. 1	664	165	33	1115
Compton, William A., Liberty Corner, N. J. Wood-embossing machine	331,769	Dec. 8	786	199	33	1146
Compton, William A., Liberty Corner, N. J. Wood-embossing	331,770	Dec. 8	789	200	33	1147
Comstock, Asa M. (See Spruce and Comstock.)						
Comstock, Henry W., Red Oak, Iowa. Telephone-switch	319,789	June 9	1109	294	31	1280
Comstock, Isaac D., and E. J. Gibson, Adrian, Mich. Corner-iron for chairs	323,117	July 28	2328	617	32	447
Comstock, James H., Newport, R. I. Nut-lock	321,691	July 7	379	101	32	71
Comstock, Philo E., Ascutneyville, Vt., assignor of one-half to J. G. Pollard, Worcester, Mass. Tool-sharpener	332,187	Dec. 8	1389	359	33	1254
Comstock, William H., Norwich, Conn. Knob attachment	328,191	Oct. 13	889	231	33	168
Conacher, Alexander, San Antonio, Tex. Refrigerating apparatus	317,629	May 12	943	242	31	702
Conant, Fred H., assignor to H. and G. Heywood, A. M. Greenwood, and A. Morrill, Gardner, Mass. Furniture	317,732	May 12	1067	240	31	796
Conant, Walter N., Toledo, Ohio. Roller-shelf book-case	316,241	Apr. 21	1742	458	31	389
Conard, Léon P., assignor of one-half to C. F. Veit and G. Dickman, London, England. Button or stud	324,302	Aug. 11	1222	332	32	758
Conard, Léon P., assignor of two-thirds to C. F. Veit and G. Dickman, London, England. Button	324,303	Aug. 11	1223	333	32	758
Conard, Léon P., assignor of one-half to C. F. Veit and G. Dickman, London, England. Button	325,912	Sept. 8	921	232	32	1193
Conard, Léon P., assignor of one-half to C. F. Veit and G. Dickman, London, England. Button	327,768	Oct. 6	344	89	33	60
Conden, James. (See Button, Joseph, assignor.)						
Conder, Irenaeus. (See Harding, Richard, assignor.)						
Condict, Nathan W., Jr., Jersey City, N. J., and T. Rose, Brooklyn, N. Y. Refrigerating apparatus	311,062	Jan. 20	1185	325	30	233
Condit, Edward A., Hoboken, N. J. Drip-cup for lamps	325,057	Aug. 25	2254	619	32	965
Condit, George M., Jr., Waterbury, Conn. Carpet-fastener	317,364	May 5	509	129	31	616
Condon, Richard, Lyons, Iowa. Horseshoe	315,736	Apr. 14	1057	277	31	198
Condon, Rufus B., Belfast, Me. Navigable vessel	314,435	Mar. 24	1888	504	30	1155
Cone, Jonathan, et al. (See Parry, George T., assignor.)						
Cone, Jonathan, Bristol, and F. S. Groves, Philadelphia, Pa. Life-raft	312,256	Feb. 17	1067	299	30	566
Cone, William W. (See Donahue and Cone.)						
Cone, William W. (See Donahue, Roche, Goodwin, and Cone.)						
Cones, Charles B., assignor to C. B. Cones' Son & Co., Indianapolis, Ind. Pantaloon	328,384	Oct. 13	1151	296	33	217
Cones' Son & Co., C. B. (See Cones, Charles B., assignor.)						
Congar, Henry. (See Stanley, James, assignor.)						
Congdon, I. H. (See Mertaheimer, Frederick, assignor.)						
Congdon, Isaac H., Omaha, Nebr. Car-truck	314,224	Mar. 24	1604	494	30	1101
Congdon, Isaac H., Omaha, Nebr. Car-brake	314,225	Mar. 24	1607	424	30	1101
Congdon, Isaac H., Omaha, Nebr. Casting car-axle boxes	314,226	Mar. 24	1608	425	30	1102
Congdon, Isaac H., Omaha, Nebr. Freight-car	315,600	Apr. 14	870	229	31	181
Congdon, Isaac H., Omaha, Nebr. Device for operating rear signal-lights of railway trains	320,439	Nov. 3	16	5	33	508
Conger, Abraham B., New York, N. Y. Preparation of a fluid for making water-repellent fabrics	310,560	Jan. 13	515		30	105
Conger, Henry C. (See Lewis and Conger.)						
Conger, Henry R., Burlington, Vt. Apparatus for hoisting and conveying ice by hand-power	313,229	Mar. 3	365	91	30	843
Conine, Anthony, Coxsackie, N. Y. Wheel step-ladder	331,685	Dec. 1	666	165	33	1115
Conklin, Hudson W., et al. (See Brewer and Heesen, assignors.)						
Conklin, Hudson W., et al. (See Heesen, Hendrick, assignor.)						
Conklin, Theodore F., Fond du Lac, Wis. Box-fastener	328,463	Oct. 20	1259	326	33	944
Conklin, Theodore F., assignor, by means assignments, to Conklin Trunk Bolt Company, (limited), Fond du Lac, Wis. Trunk-catch	311,721	Feb. 3	336	93	30	412
Conklin Trunk Bolt Company. (See Conklin, Theodore F., assignor.)						
Conklin, William T. (See Case, George, assignor.)						
Conley, John, Grand Rapids, Mich. Fastening rails to metal sleepers	332,384	Dec. 15	1670	437	33	1310
Conley, John A., Springfield, Mass. Button	319,790	June 9	1110	295	31	1260
Conley, Michael R., Brooklyn, assignor to W. Bell, New York, N. Y. Preparing iron ores for smelting	314,113	Mar. 17	1461		30	1065
Conlon, John. (See Ellmaker, Isaac N., assignor.)						
Conn, John H., Englewood, Ill. Car-coupling	315,911	Apr. 14	1303	339	31	242
Connell, James M., Newark, Ohio. Machine for sharpening mower and reaper knives	325,159	Aug. 25	2378	655	32	988
Connell, John, Rochester, N. Y. Planer feed-roll	311,063	Jan. 20	1187	325	30	233
Connell, John, Rochester, N. Y. Circular sawing machine	321,192	June 30	3036	804	31	1633
Connell, Lewis W., Joliet, Ill. Barb-fence-wire machine	325,733	Sept. 8	897	174	32	1150
Connell, Platt C., Chicago, Ill. Paint composition	325,160	Aug. 25	2380		32	988
Connolly, Hugh, Colton, N. Y. Hay-rack	330,565	Nov. 17	1527	408	33	811
Connolly, John S. (See Connolly, Thomas E., assignor.)						
Connolly, John S., assignor of one-half to T. E. Connolly, Pittsburg, Pa. Automatic gas-governor	316,945	May 5	18	6	31	526
Connolly, Thomas E. (See Connolly, John S., assignor.)						
Connolly, Thomas E., assignor of one-half to J. S. Connolly, Pittsburg, Pa. Chemical fire-extinguisher	317,513	May 12	798	204	31	676
Connolly, William A., Boston, Mass. Fare receiver, register, and alarm	315,737	Apr. 14	1057	277	31	198
Connolly, William A., Boston, Mass. Indicating-plate	322,259	July 14	1145	299	32	217
Connolly, William E., Hubbard, Tex. Gate	318,087	May 19	1555	417	31	825
Conner and Mather Manufacturing Company. (See Conner, Thompson M. and T. M., assignors.)						
Conner, Daniel, Amesville, Ohio. Shepherd's crook	316,242	Apr. 21	1743	458	31	329
Conner, Fletcher M., Henrico County, Va. Clothes-clamp for beds	319,563	June 9	805	214	31	1205
Conner, Joseph, and G. Matthews, Jr., assignors to J. Matthews, New York, N. Y. Safety-cap for gas-generators for soda-water machines	328,008	Oct. 13	654	172	33	125
Conner, Laurence H., Grand View, Tex. Churn	324,537	Aug. 18	1541	425	32	824
Conner, Lewis D., Oberlin, and C. F. Peebles, Berea, Ohio. Core rock-drill	312,093	Feb. 10	857	235	30	516
Conner, Oliver E., Hartwell, Ohio. Hand fire-extinguisher	320,225	June 16	1713	455	31	1375
Conner, Oliver E., and T. E. McNamara, Cincinnati, Ohio. Hand fire-extinguisher	320,226	June 16	1714	455	31	1375

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Conner, Ovid W., Wabash, Ind. Tag and tag-fastener	326,404	Sept. 15	1583	411	32	1322
Conner, Theodore M. (See Conner, Thompson M. and T. M.)						
Conner, Thompson M. and T. M., assignors to Conner and Mather Manufacturing Company, Richmond, Ind. Roller-skate	322,350	July 14	1262	330	32	240
Conner, William P., Bloomsburg, Pa. Umbrella and parasol frame	330,566	Nov. 17	1522	409	32	812
Conner, William P., assignor to School Furnishing Company, Bloomsburg, Pa. School-desk	327,242	Sept. 29	2735	710	32	1544
Conner, Wilson E. (See Cross, James M.)						
Connett, Matthew F., Jr., Springfield, Ill. Machine for turfing fabrics	332,639	Dec. 15	2022	531	33	1371
Connett, Matthew F., Jr., assignor of one-third to M. F. Connett, Sr., Springfield, Ill. Machine for turfing fabrics	313,710	Mar. 10	907	236 237	30	956
Connett, Matthew F., assignor of two-thirds to C. A. Orr, Springfield, Ill. Machine for making wire and picket fencing	325,504	Sept. 1	382	94, 95	32	1088
Connolly, Anthony A. (See Connolly, Thomas A. and A. A.)						
Connolly, Charles, Turner's Falls, Mass. Self-closing glove-holder	326,104	Sept. 15	1172	299	32	1246
Connolly, Patrick, Brooklyn, N. Y. Casing for cocks and hydrants	313,060	Mar. 3	34	9	30	784
Connolly, Thomas. (See Fowkes and Connolly)						
Connolly, Thomas A. and A. A., Washington, D. C. Main for conveying gas under pressure	330,294	Nov. 10	1165	310	33	736
Connolly, Thomas A. and A. A., Washington, D. C. Gas-conveying apparatus	331,686	Dec. 1	667	165	33	1115
Connolly, William, South Norwalk, Conn. Oil-drip pan for sewing-machines	322,522	July 21	1507	396	32	290
Connolly, William, South Norwalk, Conn. Oil-strainer	323,637	Aug. 4	337	96	32	585
Conolly, William. (See Seton and Conolly)						
Conover & Co., J. S. (See Mac Kusic, Elmer F., assignor.)						
Conover, David, Mount Vernon, Ind. Churn	325,238	Sept. 1	9	4	32	1017
Conover, George W., Philadelphia, Pa. Combined cigar-case and match-holder	321,485	July 7	104	28	32	21
Conover, James F., New York, N. Y. Stringing pianos	329,277	Oct. 27	2388	618	33	457
Conqueror, John. (See Mason and Conqueror)						
Conrad, David S., Waynesborough, Pa. Scratch-gage	325,505	Sept. 1	389	96	32	1089
Conrad, Martin, Chicago, Ill. Wagon-brake	327,921	Oct. 6	538	140	33	96
Conrad, Max, Aschaffenburg, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Mordant	328,464	Oct. 20	1253		33	244
Conrad, Max, Aschaffenburg, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Printing textile fabrics	328,465	Oct. 20	1254		33	244
Conradson, Conrad M., assignor of one-third to F. A. Johnson, Madison, Ill. Roller-skate	317,514	May 12	799	205	31	676
Conradson, Pontas H., Brooklyn, N. Y., assignor of one-half to A. W. Hale, Plainfield, N. J. Surface-coating iron	311,294	Jan. 27	1527		30	301
Conradt, Julius W., Middletown, Conn. Harness for horses	313,850	Mar. 17	1112	289	30	1000
Conroy, Patrick J., Philadelphia, Pa. Door or shutter fastener	332,495	Dec. 15	1809	475	33	1334
Conroy, Thomas J. (See Robinson, Frederic C. P., assignor.)						
Consolidated Safety Valve Company. (See Richardson, George W., assignor.)						
Consolidated Telephone Company. (See Moore and Culbertson, assignors.)						
Constant, Boston S., Peru, Ind. Fanning-mill	317,094	May 5	216	54	31	563
Continental Store Service Company. (See Crosby, Darwin E., assignor.)						
Continental Store Service Company. (See Hinton, Joseph R. H., assignor.)						
Conver, William H., and G. M. Sheffer, Emlenton, Pa. Rotary engine	330,001	Nov. 10	784	201	33	658
Converse, Edmund C. (See Manly, Charles E., assignor.)						
Converse, Samuel, Middletown, Conn. Washing-machine	325,913	Sept. 8	922	232 233	32	1193
Converse, Waldo F. (See Keller, Jeremiah, assignor.)						
Conway, Andrew J., assignor, by means assignments, of one-half to E. W. West, Jr., Belleville, Ill. Covering for chimney-tops	311,105	Jan. 20	1248	341	30	944
Conway, Jesse, assignor of one-half to J. N. Conway, Baltimore, Md. Feed-bag	314,915	Mar. 31	2556	676	30	1301
Conway, Jesse, assignor of one-half to J. H. Conway, Baltimore, Md. Vehicle-axle nut-lock	319,791	June 9	1111	295	31	1261
Conway, John. (See Ryan and Conway.)						
Conway, John H. (See Conway, Jesse, assignor.)						
Conway, John N. (See Conway, Jesse, assignor.)						
Cook, Albert G., Boston, Mass. Constructing oil-troughs for tree-protectors	322,523	July 21	1508	396	32	290
Cook, Americus V., Dexter City, Mo. Heating-stove	316,605	Apr. 28	2521	587	31	424
Cook, Asa S. (See Alger and Cook, assignors.)						
Cook, Asa S., Hartford, Conn. Screw-machine	319,564	June 9	805	214 215	31	1205
Cook, August D., Lawrenceburg, Ind. Pump-handle	318,235	May 19	1749	467	31	862
Cook, Benjamin F., Santa Maria, Cal. Buck-pole	327,529	Oct. 6	34	7	33	8
Cook, Burton H., Brooklyn, N. Y. Ash-sifter	312,434	Feb. 17	1333	367 368	30	613
Cook, Charles. (See Callan, Frank, assignor.)						
Cook, Charles E., and J. Mitchell, Delaware, Ohio. Harrow-tooth fastening	320,334	June 16	1890	497	31	1406
Cook, Daniel, Philadelphia, Pa. Window-screen	315,249	Apr. 7	378	93	31	69
Cook, Egbert C., Chicago, Ill. Awning	328,921	Oct. 27	1888	488	33	363
Cook, Emmanuel T., Alexander, assignor of one-half to F. M. Carlton, Carlton P. O., Tex. Band-cutter and feeder for thrashers	314,805	Mar. 31	2406	636	30	1275
Cook, Enos A., J. D. Shoots, and D. Staring, Horseheads, N. Y. Steel trap	312,094	Feb. 10	858	225	30	516
Cook, Frank T., West Springfield, Mass. Pail-holding device for milking purposes	329,889	Nov. 10	636	162	33	631
Cook, Frederick, and J. H. Pomeroy, New Haven, Conn. Clock-work for mechanical lamps	310,651	Jan. 13	627	173	30	125
Cook, George, Boston, Mass. Piano-forte	316,445	Apr. 28	2037	534	31	357
Cook, George, Boston, Mass. Piano	326,105	Sept. 15	1173	300	32	1246
Cook, George, Boston, Mass. Piano	326,106	Sept. 15	1174	300	32	1246
Cook, George H., Palmer, Kans. Land-anchor	314,367	Mar. 24	1799	478	30	1138
Cook, George W., Chicago, Ill. Window and door awning or shade	315,250	Apr. 7	379	94	31	69
Cook, George W., assignor to M. B. Kennedy, Chicago, Ill. Rope-lock	324,984	Aug. 25	2158	589	32	947
Cook, Harry C., et al. (See Watson, Charles S., assignor.)						
Cook, Harvey S., Boston, Mass. Bed	310,255	Jan. 6	126	36	30	26
Cook, Henry B. (See Bullock and Cook.)						
Cook, Henry T. (See Crossley and Cook.)						
Cook, Hiram D., Dry Brook, N. Y. Road scraper or planer	321,193	June 30	3037	804	31	1633
Cook, Israel. (See Potter and Boeklen, assignors.)						
Cook, James, Chattanooga, Tenn. Watch-maker's wheel-cutting engine	319,072	June 2	174	46	31	1080
Cook, John A. (See Haggett, George W., assignor.)						
Cook, John F. (See Alger and Cook.)						
Cook, Joseph, Akron, Ohio. Drinking-fountain for poultry	315,251	Apr. 7	380	94	31	69
Cook, Joseph, assignor to Sinkler, Davis & Company, Indianapolis, Ind. Band-saw mill	321,194	June 30	3038	805	31	1633
Cook, Leroy, Worcester, Mass. Barb-fence machine	312,820	Feb. 24	1853	508 509	30	716

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Cook, Leroy, Worcester, Mass. Bale-tie machine	312,821	Feb. 24	1856	509	30	715
Cook, Lorenzo S., Borden, N. Y. Bee-hive	324,538	Aug. 18	1541	425	32	824
Cook, Marcus E., Wallingford, Conn. Earth loader and conveyer	316,243	Apr. 21	1744	458	31	330
Cook, Marcus E., Wallingford, Conn. Road-scraper	326,719	Sept. 22	2008	525	32	1406
Cook, Moses G., Lynn, Mass. Weighing-scale	327,530	Oct. 6	35	8	33	8
Cook, Roswell F., Illon, N. Y. Wrench	325,503	Sept. 1	381	93	32	1088
Cook, Roswell F., assignor to E. Remington & Sons, Illon, N. Y. Magazine for fire-arms	313,851	Mar. 17	1113	289	30	1001
Cook, Samuel H., Johnsonville, Ill. Harrow	316,244	Apr. 21	1746	459	31	330
Cook, Stephen W., and H. Summers, Bozeman, Mont. Ter. Dumping-car	327,769	Oct. 6	345	89	33	61
Cook, Theodore A., Brooklyn, N. Y. Pail	313,990	Mar. 17	1304	341	30	1036
Cook, Thomas G., assignor of one-half to V. Marshall and J. A. Publow, Brockville, Ontario, Canada. Spring harrow-tooth	322,351	July 14	1263	330	32	240
Cook, Thomas W. G. (See Davis and Cook.)						
Cook, William, assignor of one-half to F. Donner, Columbus, Ind. Dust-collector	311,295	Jan. 27	1528	416	30	301
Cook, Winfield S. (See Westbrook and Cook.)						
Cooke, Charles F. and T. York, England. Engineer's reversible level	330,210	Nov. 10	1057	276	33	714
Cooke, Charles H., Providence, R. I., assignor to J. B. Mathewson & Co. Button or stud	311,474	Feb. 3	16	5	30	351
Cooke, Charles H., assignor to J. B. Mathewson & Co., Providence, R. I. Locket	316,118	Apr. 21	1586	412	31	301
Cooke, Charles M., Brooklyn, N. Y. Gridiron	322,686	July 21	1712	454	32	828
Cooke, David W., Franklin, Tenn. Tow-boat for canals	313,920	Mar. 17	1215	317	30	1019
Cooke & Eddy. (See Costello, John, assignor.)						
Cooke, Edward H., and H. T. Seymour, Cork, Ireland. Hermetically-sealed tin can, canister, &c.	310,989	Jan. 20	1078	293	30	213
Cooke, John A., Cape May, N. J. Net for catching porpoises	317,733	May 12	1069	290	31	726
Cooke, Robert F., Brooklyn, N. Y., assignor to H. Holden, East Orange, N. J. Match	326,851	Sept. 22	2210	576	32	1443
Cooke, Robert F., Brooklyn, N. Y., assignor to H. Holden, East Orange, N. J. Lighting device	326,852	Sept. 22	2211	577	32	1443
Cooke, Thomas. (See Cooke, Charles F. and T.)						
Cooke, Watts, and D. Carrough, Paterson, N. J. Machine for upsetting eye-bars	322,290	Oct. 13	1007	262	33	191
Cookerley, Josiah C., South Milford, Ind. Nut-lock	320,914	June 30	2673	710	31	1567
Cookson, Charles W. (See Dyson and Cookson.)						
Cool, Peter, Manhattan, Kans. Carriage-axle	317,305	May 5	509	130	31	616
Cool, Peter, Manhattan, Kans. Car-axle bearing	326,955	Sept. 22	2269	618	32	1476
Coolbaugh, Frank W., New York, N. Y. Holder for signal lanterns and flags	310,652	Jan. 13	627	173	30	125
Coolbaugh, Jesse R., administrator. (See Cannan, Matthew C.)						
Cooley, Albert, Osceola, Iowa. Stack-cover	323,638	Aug. 4	339	96	32	585
Cooley, Earl K., assignor of one-half to J. H. Gillespy and W. C. Childs, San Francisco, Cal. Machine for the manufacture of bottle-covers from tulle	332,640	Dec. 15	2026	531	33	1372
Cooley, Henry W. (See Loomis and Cooley.)						
Cooley, Orville, assignor to Johnston Harvester Company, Batavia, N. Y. Grain-binder	321,692	July 7	380	101	32	71
Cooley, Wilking B. (See Buell, Charles E., assignor.)						
Cooley, William M., et al. (See Wingo, Robert A., assignor.)						
Coolidge, Charles P., Orange, Mass. Turbine	319,957	June 16	1355	356	31	1311
Coombe, Samuel, Poultney, Vt. Coffin	321,280	June 30	3143	837	31	1633
Coombes, Edwin T. (See Hobart and Coombes.)						
Coombe, Eden M., Memphis, Ind. Farm-gate	325,657	Sept. 8	585	148	32	1131
Coon, James H., assignor to Capital City Tool Company, Des Moines, Iowa. Device for turning axles or shafts	316,119	Apr. 21	1586	412	31	301
Coon, Madison, Sidney, Ohio. Mechanical motor	310,256	Jan. 6	197	36	30	26
Coon, Riley H., Canastota, N. Y. Thrashing-machine	313,299	Mar. 3	322	84	30	846
Coon, Willard W., Fallsade, assignor of one-third to T. F. Leavitt, Sioux Falls, Dak. Ter. Shaft for grindstones	332,996	Dec. 22	2532	667	33	1471
Coons, Robert H., Taylor, Mo. Bee-hive	327,068	Sept. 22	2201	633	32	1501
Coons, Solomon, Orbisonia, Pa. Punch	313,991	Mar. 17	1305	341	30	1036
Coonse, George W., Indianapolis, Ind. Force-pump	310,561	Jan. 13	516	141	30	105
Coop, William L., Providence, R. I. Swivel-block	310,386	Jan. 6	300	83	30	58
Coop, William L., and J. C. Boma, Providence, R. I. Exercising-machine	323,792	Aug. 4	527	149	32	622
Cooper, Albert. (See Metzger and Cooper.)						
Cooper, Alfred J., Durvies, Pa. Coal-drilling machine	313,577	Mar. 10	733	193	30	923
Cooper, Almond F., Cambridge, Mass. Screw-cap for metal cans	314,227	Mar. 24	1609	425	30	1102
Cooper, Amos B., Scandia, Kans. End-gate for wagons	317,977	May 19	1412	379	31	799
Cooper, Charles B., New York, N. Y. Die for corrugating sheet metal	318,088	May 19	1556	417	31	825
Cooper, Charles J., Chicago, Ill. Hame-tug	315,005	Apr. 7	26	7	31	7
Cooper, Charles J., and H. S. Bollinger, assignors to C. J. and H. W. Cooper, Chicago, Ill. Cockeye	322,907	July 28	2029	536	32	392
Cooper, David G., Dover, N. H. Oven-thermometer	328,872	Oct. 20	1793	467	33	342
Cooper, George B., et al. (See Hillman, William, assignor.)						
Cooper, Herbert W. (See Cooper and Bollinger, assignors.)						
Cooper, Hurvey, Westfield, Mass. Water-wheel	332,057	Dec. 8	1203	314	33	1222
Cooper, Isaac W., Apollo, Pa. Whip and line holder	328,466	Oct. 20	1254	326	33	244
Cooper, Isaac W., assignor to J. Cooper, Apollo, and A. S. Warner, Freeport, Pa. Sling	316,525	Apr. 28	2131	561	31	405
Cooper, James J. (See Porter, Alonzo W., assignor.)						
Cooper, John, Mount Vernon, Ohio. Burial casket, vault, &c.	328,291	Oct. 13	1009	262	33	191
Cooper, John A., et al. (See Lord, Andrew H., assignor.)						
Cooper, John H., Philadelphia, Pa. Friction-clutch	317,306	May 5	510	130	31	616
Cooper, Joshua, et al. (See Cooper, Isaac W., assignor.)						
Cooper, Leven W., Smith's Mills, Ky. Evaporator	331,867	Dec. 8	923	238	33	1171
Cooper Manufacturing Company. (See Moore, Aaron B., assignor.)						
Cooper, Newton A., Back Creek Valley, Va. Buckle	324,921	Aug. 25	2071	567	32	931
Cooper, S. B. (See Iseninger, Daniel H., assignor.)						
Cooper, Thomas G., Jarvis, Ontario, assignor of one-tenth to S. J. Moore, Toronto, Canada. Black-leaf check-book	323,276	July 28	2543	676	32	487
Cooper, William D., Wayne, Mich. Car-axle box	326,405	Sept. 15	1583	412	32	1322
Cooper, William E., assignor of one-half to M. L. Hinman, Dunkirk, N. Y. Chimney-cowl	312,553	Feb. 17	1506	411	30	643
Cooper, William H., Quincy, Ill. Flue-cleaner for steam-boilers	315,738	Apr. 14	1060	277	31	199
Cope, Henry P., assignor of one-half to J. H. Bissell, Detroit, Mich. Hose-truck	332,589	Dec. 15	1959	513	33	1359
Copeland, David, and H. J. Durgin, Rochester, N. Y. Extension-table	316,946	May 5	20	6	31	526
Copeland, David W., Syracuse, N. Y. Car-starter	319,565	June 9	906	215	31	1206

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Copeland, David W., Syracuse, assignor to Copeland Manufacturing Company, New York, N. Y. Railway-gate.....	316,747	Apr. 28	2452	638	31	463
Copeland, Edwin R., Monroe, Wis. Fence-post.....	323,793	Aug. 4	527	149	32	622
Copeland, Franklin, Dedham, Mass. Carburetor.....	320,460	June 23	2086	550	31	1450
Copeland, George T., Gloversville, N. Y. Corn-popper.....	312,612	Feb. 24	1579	432	30	667
Copeland, George W. (See Woodward and Copeland.)						
Copeland, George W. (See Crisp and Copeland.)						
Copeland, George W., Malden, Mass. Boot and shoe lasting tool.....	329,278	Oct. 27	2389	618	33	457
Copeland, George W., Malden, Mass. Heel-lasting machine.....	329,279	Oct. 27	2390	619	33	457
Copeland, George W., Malden, Mass. Boot and shoe lasting machine.....	329,280	Oct. 27	2392	620	33	458
Copeland, George W., Malden, Mass. Heel-lasting machine.....	329,281	Oct. 27	2393	620	33	458
Copeland, George W., Malden, and J. E. Crisp, Boston, Mass. Lasting-machine.....	329,282	Oct. 27	2395	621	33	458
Copeland, George W., Malden, and J. E. Crisp, Boston, Mass. Lasting-machine.....	329,283	Oct. 27	2397	622	33	459
Copeland Manufacturing Company. (See Baird, William C., assignor.)						
Copelin, Thomas E., Chicago, Ill. Machine for making stick-candy.....	313,061	Mar. 3	35	9	30	784
Copes, Robert. (See Zeigler, Daniel G., assignor.)						
Copman, Charles, New York, N. Y. Filling attachment for the hubs of pipes.....	315,483	Apr. 14	704	186	31	131
Copp, Charles H., Clyde, Mich., assignor to Marks Automatic Car Coupler Company, Cleveland, Ohio. Railway-velocipede.....	312,332	Feb. 17	1197	398	30	586
Copper, Luther S., Cleveland, Ohio. Bicycle-saddle.....	327,770	Oct. 6	346	89	33	61
Coppernoll, James M., and J. W. Brandow, Jordanville, N. Y. End-gate.....	316,748	Apr. 28	2453	638	31	463
Coppernoll, James M., and J. W. Brandow, Jordanville, N. Y. Wood-filler.....	319,792	June 9	1112		31	1261
Copple, John, Sibley, Iowa. Running-gear for wagons.....	317,515	May 12	800	205	31	676
Coppeck, Joseph A., assignor of one-half to A. L. Harbuck, Norwood, Ga. Quilting-support for sewing-machines.....	323,118	July 28	2328	617	32	447
Couard, Leon H. F., and F. A. McGinnis, Detroit, Mich. Pool-ball cabinet.....	323,854	Aug. 4	603	169	32	637
Couillard, Alexis. (See Fisher and Couillard.)						
Corbett, Frank, New York, N. Y. Ironing-machine.....	324,088	Aug. 11	921	255	32	701
Corbett, John T., Aurora, Ill. Magazine-boiler.....	329,890	Nov. 10	637	192	33	632
Corbett, Joseph, New York, assignor to Railway Register Manufacturing Company, Buffalo, N. Y. Fare register and recorder.....	326,720	Sept. 22	2011	526	32	1407
Corbett, Philip F., Boston, Mass. Elevator.....	310,183	Jan. 6	33	9 10	30	8
Corbett, Philip F., Boston, Mass. Car-coupling.....	316,011	Apr. 21	1435	374	31	273
Corbett, William, Smith's Falls, Ontario, Canada. Grave-vault.....	323,917	Aug. 11	691	194	32	660
Corbin, Amasa, Jr., Gouverneur, N. Y. Disk-harrow.....	315,127	Apr. 7	184	45	31	34
Corbin, Amasa, Jr., Gouverneur, N. Y. Potato-digger.....	319,793	June 9	1113	295	31	1261
Corbin Cabinet Lock Company. (See Blakesley, Gilbert H., assignor.)						
Corbin Cabinet Lock Company. (See Cowles, George B., assignor.)						
Corbin Cabinet Lock Company. (See Gory, Emmanuel G., assignor.)						
Corbin Cabinet Lock Company. (See Mix, Frank W., assignor.)						
Corbin Cabinet Lock Company. (See Mix and Cowles, assignors.)						
Corbin Cabinet Lock Company. (See Seymour, Henry A., assignor.)						
Corbin, Jay S., Gouverneur, N. Y. Disk-harrow.....	325,294	Aug. 25	2471	620	32	1005
Corbin, Jay S., Gouverneur, N. Y., and A. G. Hill, Prescott, Ontario, Canada; said Hill assignor to said Corbin. Combined harrow and seeder.....	319,554	Feb. 17	1507	411	30	644
Corby, John F., Chicago, Ill. Atomizer.....	325,908	July 28	2030	536	32	392
Corby, Thomas W., Grosse Point, Mich. Colter and plow cleaner.....	324,817	Aug. 25	1937	532	32	905
Corcoran, Newton C., and R. J. Thompson, Doniphan, Mo. Boat-propelling device.....	327,771	Oct. 6	347	89	33	61
Corcoran, J. Huff, and L. Rummel, Alden, Iowa. Hay raker and loader.....	320,227	June 16	1715	466	31	1376
Corcoran, Mathew, and C. M. Gates, Rock Falls, Ill. Machine for making tubs.....	317,516	May 12	800	205	31	676
Corcoran, Richard B., Fort Custer, Mont. Terr. Horseshoe.....	327,772	Oct. 6	348	90	33	61
Cordery, John T., Absecon, N. J. Running-gear for vehicles.....	329,817	Nov. 3	529	135	33	604
Cordon, François. (See Scotland and Cordon.)						
Cordray, Harriet. (See Blackburn and Cordray, assignors.)						
Cordray, William F. (See Blackburn and Cordray.)						
Cordrey, Francis, Fort Wayne, Ind. Harvester.....	332,136	Dec. 8	1325	344	33	1242
Cordry, Lorenzo H. (See McGregor and Cordry.)						
Corell, John, St. Louis, Mo. Steam-trap.....	333,997	Dec. 22	2533	668	33	1471
Corey, Daniel W., Galena, Ill. Bobbin for sewing-machine shuttles.....	323,916	Aug. 11	690	193	32	660
Corey, Francis E., Westborough, Mass. Air-compressing engine.....	311,106	Jan. 20	1248	342	30	244
Corey, Francis E., Westborough, Mass. Radiator.....	323,277	July 28	2544	676	32	487
Corey, Frank E., Westborough, Mass. Rein guard for whiffletrees.....	322,909	July 28	2031	536	32	392
Corey, George, Brooklyn, N. Y. Cigar-holder.....	328,009	Oct. 13	654	173	33	125
Corey, George D., assignor of one-half to J. F. Puffer, Jr., Lowell, Mass. Bottle-stopper.....	310,990	Jan. 20	1079	294	30	213
Corey, George D., assignor to Woods, Sherwood & Co., Lowell, Mass. Bottle-stopper.....	312,095	Feb. 10	860	235	30	516
Corey, George D., assignor to Woods, Sherwood & Co., Lowell, Mass. Bottle-stopper.....	312,096	Feb. 10	861	236	30	516
Corey, James B., North Braddock, Pa. Leak-stopper for vessels.....	312,613	Feb. 24	1580	432	30	667
Corey, Jasper W., assignor to H. Muhlbauer, Cincinnati, Ohio. Clutch or loose-pulley device.....	322,423	July 21	1364	356	32	265
Corey, Jasper W., assignor to H. Muhlbauer, Cincinnati, Ohio. Feeding mechanism for sewing-machines.....	325,396	Sept. 1	247	62	32	1062
Corey, John A., et al. (See Taber, William D., assignor.)						
Corey, Willard I., Cincinnati, Ohio. Axle.....	328,010	Oct. 13	655	172	33	125
Corey, William. (See Dow, George B. N., assignor.)						
Corliss, Charles P., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Stem winding and setting watch.....	325,506	Sept. 1	389	96	32	1089
Corliss, George H., Providence, R. I. Governor for steam-engines.....	324,459	Aug. 18	1436	392	32	805
Corliss, John B., et al. (See Bolton, George W., assignor.)						
Corliss, Mattland A., Flint, Mich. Double-clinching carriage-knob.....	332,787	Dec. 22	2237	590	33	1418
Cornack, George H., Rockford, Ill. Oatmeal-machine.....	326,853	Sept. 22	2212	577	32	1443
Cornelius, James, Brooklyn, N. Y. Loose-pulley and wheel lubricator.....	319,073	June 2	175	47	31	1080
Cornelius, Wilber F., Muncie, Ind. Roller-skate.....	324,364	Aug. 18	1311	356	32	782
Cornelius, Wilber F., assignor, by means assignments, to Victor Adjustable Truck Roller Skate Company, Muncie, Ind. Roller-skate.....	325,161	Aug. 25	2381	656	32	988
Cornelius, Wilbur F., Indianapolis, Ind. Caster for roller-skates.....	330,097	Nov. 10	918	238	33	696
Cornell, George, Crystal Run, N. Y. Electric time-signal for railways.....	332,496	Dec. 15	1809	475	33	1334
Cornell, George H., Amboy, Ill. Milk-strainer.....	310,494	Jan. 6	422	117	30	82
Cornell, Joseph, Petersburg, Colo. Automatic water-distributor.....	327,141	Sept. 29	2603	678	32	1518
Cornell, S. Douglas, Buffalo, N. Y. Apparatus for the manufacture of white lead.....	313,499	Aug. 4	153	45	32	550

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Cornely, Emil, Paris, France. Fixing cords or braids to textile fabrics by means of sewing or embroidering machines.....	311,644	Feb. 3	244	69	30	395
Cornely, Emil, Paris, France. Imitation-bead embroidery.....	322,589	July 21	1589	419	32	304
Cornilia, Peter V., Chicago, Ill. Car-coupling.....	323,278	July 28	2545	676	32	487
Corning, Charles S., Peoria, Ill. Making whisky.....	325,322	Sept. 1	123	35	32	1038
Corning, Charles S., Peoria, Ill. Apparatus for mashing grain in distilleries.....	325,323	Sept. 1	125	35	32	1038
Corning, David, and E. J. Stackhouse, Danbury, Conn. Nail-extractor.....	328,635	Oct. 20	1520	395	33	291
Corning, Frederick G., Brooklyn, assignor of one-half to G. H. Benjamin, New York, N. Y. Ore concentrator and separator.....	311,231	Jan. 27	1432	391	30	284
Cornish, Oscar S., et al. (See Curtis, David W., assignor.)						
Cornog, Isaac P., Philadelphia, Pa. Ratchet-wrench.....	388,199	Dec. 29	2817	737	38	1527
Cornthwaite, Robert. (See Dewhurst and Cornthwaite.)						
Cornwall, Edward A., et al. (See Stebbins, Darius, assignor.)						
Cornwall, Edward T., et al. (See Stebbins, Darius, assignor.)						
Cornwall, John B. (See Barnard and Cornwall.)						
Coron, Joseph. (See Anthony and Coron.)						
Coronet Corset Company. (See McGee, Charlotte A., assignor.)						
Correja, Henry, Paris, France. Photographic apparatus.....	318,701	May 26	2371	633	31	984
Corron, César, assignor to Société Anonyme La Teinturerie Stephanolise, Saint-Etienne, Loire, France. Apparatus for dyeing yarn.....	311,568	Feb. 3	147	42	20	376
Corry, William, assignor to J. L. Hall, Cincinnati, Ohio. Prison-door bolt.....	323,855	Aug. 4	604	170	32	637
Corraden, Robert, Providence, R. I. Apparatus for collecting and drying the sedimentary matter of sewage.....	315,912	Apr. 14	1304	339 } 340 }	31	242
Corraden, Robert, Providence, R. I. Apparatus for collecting and drying sedimentary matter of sewage.....	331,943	Dec. 8	1037	269	33	1103
Corser, E. Jay, assignor to S. N. Gallup, Macedon, N. Y. Gearing for changing speed.....	313,711	Mar. 10	910	237	30	956
Corson, Aaron R., assignor of one-half to W. H. Corson, High Bridge, N. J. Speed-regulator.....	314,298	Mar. 24	1610	425	30	1102
Corson, William H. (See Corson, Aaron R., assignor.)						
Corson, William P., New York, N. Y. Cutter-head for heel-trimming machines.....	331,771	Dec. 8	790	200	33	1147
Corson, William T., et al. (See Reeves, Albert S., assignor.)						
Cort, Nevill, New Florence, Pa. Cross-over switch.....	332,641	Dec. 15	2028	532	33	1372
Corteen, William, Sheffield, county of York, England. Chair or rail-fastener for railways and tramways.....	331,868	Dec. 8	924	238	33	1171
Cortright, Lewis D., Hyde Park, Ill. Roofing finishing.....	313,852	Mar. 17	1114	289	30	1001
Cortright, Lewis D., Hyde Park, Ill. Roofing for buildings.....	313,853	Mar. 17	1116	289	30	1001
Corum, John J., et al. (See Hardwick, Joseph O., assignor.)						
Corwin, George M. (See Osborn, Frank S., assignor.)						
Corwin, John H., et al. (See Stanford, Frank H., assignor.)						
Cory Artificial Fuel Company. (See Cory, William H., assignor.)						
Cory, Loretto, Shelbyville, Ind. Water-proof garment.....	316,245	Apr. 21	1747	459 } 460 }	31	330
Cory, William H., New York, N. Y., assignor to Cory Artificial Fuel Company. Artificial fuel and making the same.....	332,497	Dec. 15	1810		33	1335
Cory, William H., New York, N. Y., assignor to Cory Artificial Fuel Company. Carbonaceous fuel and making the same.....	332,498	Dec. 15	1811		33	1335
Coryell, Edwin M., Brooklyn, N. Y. Steam-actuated valve.....	327,069	Sept. 29	2502	653	32	1501
Coryell, Joe H. (See Coryell, Peter D. and J. H.)						
Coryell, Miers, New York, N. Y. Steam-boiler furnace.....	313,992	Mar. 17	1306	341	30	1037
Coryell, Miers, New York, N. Y. Furnace for steam-boilers.....	326,631	Sept. 22	1880	492	32	1329
Coryell, Miers, New York, N. Y., and F. M. Wheeler, Montclair, N. J., assignors to G. F. Blake Manufacturing Company, Boston, Mass. Air-pump.....	324,089	Aug. 11	922	255	32	702
Coryell, Peter D. and J. H., Glidden, Iowa. Fruit-drier.....	313,810	Mar. 10	1049	269	30	890
Cosbie, William, San Francisco, Cal. Horse-collar.....	318,544	May 26	2181	584	31	949
Cosby, Richard M., Indianapolis, Ind. Windmill.....	315,484	Apr. 14	705	186	31	131
Cosgrove, Edward J., Augusta, Ga. Automatic air or steam brake.....	322,042	July 14	869	226	32	166
Cosgrove, James, Flatbush, N. Y. Barrel.....	322,910	July 28	2032	537	32	392
Cosgrove, James, Flatbush, N. Y. Paper keg or barrel.....	322,911	July 28	2033	537	32	393
Cosgrove, Lawrence, Baltimore, Md. Work-holder for metal-working machines.....	316,526	Apr. 28	2133	561	31	405
Cosgrove, William F., Jersey City, N. J. Automatic stop-plug for gas and oil pipes.....	313,993	Mar. 17	1307	341	30	1037
Cosgrove, William F., and E. F. Jennings, Jersey City, N. J. Automatic stop-valve for gas and oil pipes.....	325,500	Sept. 1	496	124	32	1110
Costello, John, North Attleborough, Mass., assignor to Cooke & Eddy, Providence, R. I. Button or stud.....	330,761	June 23	2468	694	31	1523
Costello, Thomas H., Chicago, Ill. Tellurian-globe.....	317,307	May 5	511	130 } 131 }	31	617
Costello, Thomas H., Englewood, Ill. Hinge.....	328,568	Oct. 20	1390	362	33	268
Costello, Thomas H., assignor to H. H. Goss, Chicago, Ill. Lathe-chuck jaw.....	333,793	July 28	2546	677	32	488
Cottigan, Richard, et al. (See Kerr, Alexander, assignor.)						
Côté, Louis, St. Hyacinthe, Quebec, Canada. Machine for nailing on the heels of boots and shoes.....	310,502	Jan. 13	517	142	30	105
Cothermon, Simon, Constantine, Mich. Shifting-rail for buggy-seats.....	326,019	Sept. 8	1059	970	32	1218
Cothren, William H., Farmington, Me. Gas-regulator.....	317,734	May 12	1070	280	31	727
Cottrell, John, Schell City, Mo. Weather-strip.....	313,921	Mar. 17	1219	317	30	1080
Cottle, Shubael, New York, N. Y. Collar-button.....	311,107	Jan. 20	1249	342	30	244
Cottle, Shubael, New York, N. Y. Bracelet.....	311,732	Feb. 3	337	93	30	412
Cottom, James B. (See Myers and Cottom.)						
Cottom, James B., assignor to D. E. McSherry & Co., Dayton, Ohio. Spring-hoe for seed-ing-machines.....	312,974	Feb. 24	2050	559	30	751
Cottom, James B., assignor to D. E. McSherry & Co., Dayton, Ohio. Agitator for grain-drills.....	312,975	Feb. 24	2051	560	30	751
Cotton, Charles, Olean, N. Y. Wagon-rack.....	318,959	June 2	39	10	31	1056
Cotton, Charles L., assignor to Mansell Heel Machine Company, Chelsea, Mass. Machine for forming heel-blanks.....	320,228	June 16	1716	456	31	1376
Cotton & Gould. (See Alden, David A., assignor.)						
Cotton, William W., and A. Hewes, Brooklyn, assignors, by means assignments, of one-half to Fishkill Manufacturing Company, New York, N. Y. Paper-bag machine.....	312,257	Feb. 17	1088	300 } 301 }	30	566
Cottrell, Calvert B. (See Overend, Andrew, assignor.)						
Cottrell, Calvert B., Stonington, Conn. Printing-press.....	314,166	Mar. 17	1529	401	30	1078
Cottrell, Calvert B., Stonington, Conn. Delivery apparatus for printing-presses.....	319,458	June 9	639	177 } 178 }	31	1180
Cottrell, Calvert B., Stonington, Conn. Chain and chain-guide for sheet-delivery apparatus for printing-presses.....	319,459	June 9	663	178	31	1180
Cottrell, Calvert B., Stonington, Conn. Sheet-delivery apparatus for printing-machines.....	319,460	June 9	664	179 } 178 }	31	1181

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Cottrell, Calvert B., Stonington, Conn. Printing-machine	337,243	Sept. 29	2737	{ 710 711 389 390 }	32	1544
Cottrell, George, San Francisco, Cal. Oatmeal-machine	330,048	June 16	1477	{ 389 390 }	31	1333
Cottrell, George, San Francisco, Cal. Grain-drier	322,092	July 14	935	242	32	179
Cottrell, George, San Francisco, Cal. Mill-stock feeder	325,722	Sept. 8	772	193	32	1164
Cottrell, George, San Francisco, Cal. Mill-stock feeder	329,364	Oct. 27	2528	651	33	461
Cottrell, Herbert, Newark, N. J. Expander for expanding and securing metal bung-bushings into casks	311,960	Feb. 10	677	186	30	462
Cottrell, Jesse D., Central Falls, R. I. Let-off mechanism for looms	312,708	Feb. 24	1705	469	30	689
Couch, Bart F., Garrettsville, Ohio. Fastener for sap-bucket covers	332,788	Dec. 22	2232	590	33	1418
Couch, John O. (See Smith and Couch.)						
Couch, John O., Middlefield, Conn., assignor to J. I. Holly, New York, N. Y. Cap for carriage-axles	327,658	Oct. 6	217	54	33	36
Couch, Perley T., and C. W. Woolbert, Philadelphia, Pa., assignors of one-third to E. S. Woolbert, Elmer, N. J. Grinding-mill	317,735	May 12	1071	281	31	727
Couch, William, Stockton-on-Tees, county of Durham, England, assignor to T. Coultas, Pittsburgh, Pa. Composite roofing	326,020	Sept. 8	1060	270	32	1218
Couffinal, Gustave J. P., St. Etienne, France. Machine for agglomerating coal and other materials	323,856	Aug. 4	605	{ 170 171 }	32	637
Coughlin, Reese P., Cincinnati, Ohio. Manufacture of clock-cases, statuary, vases, and other articles from plastic materials	311,875	Feb. 10	544	149	30	456
Coultas, Thomas. (See Coultas, William, assignor.)						
Coultas, William, Stockton-on-Tees, county of Durham, England, assignor to T. Coultas, Pittsburgh, Pa. Composite roofing	311,569	Feb. 3	146	.....	30	376
Coultas, Charles, Sharpsburg, assignor to Empire Electric Carbon Company, Pittsburgh, Pa. Furnace for baking incandescents	323,500	Aug. 4	154	45, 46	32	550
Coultas, Joseph A., assignor to himself and D. M. Rollins, Brooklyn, and P. R. Day, New York, N. Y. Spring-armored hose-pipe	325,591	Sept. 1	497	124	32	1110
Coultas, Joseph A., assignor to himself, D. M. Rollins, Brooklyn, and P. R. Day, New York, N. Y. Door-check	322,192	Oct. 13	890	231	33	166
Coulter, David. (See Long, James N., assignor.)						
Coulter, William B., Bristol, Conn. Trunk-fastener	311,232	Jan. 27	1434	391	30	264
Coulter, William B., Bristol, Conn. Relief valve	311,723	Feb. 3	338	94	30	413
Coulvier, Felix L. E., Bobain, Aisne, France. Treadle for sewing-machines	314,806	Mar. 31	2408	637	30	1276
Countriman, Charles R., Sherman, Wyo. Ter. Wedge	315,006	Apr. 7	28	7	31	7
Coupal, Joseph. (See Coupal, Peter A. and J.)						
Coupal, Peter A., Boston, Mass., assignor to Boot and Shoe Sole Laying Company, Portland, Me. Sole-laying machine	315,913	Apr. 14	1306	340	31	242
Coupal, Peter A., assignor to A. Seaver, trustee, Boston, Mass. Lasting-machine	317,308	May 5	513	131	31	617
Coupal, Peter A., Boston, and J. Coupal, Quincy, Mass. Sewing-machine for connecting soles and uppers of turned shoes	332,642	Dec. 15	2029	{ 532 533 }	33	1373
Comper, John A., Marietta, Ga. Swimming-shoe	330,762	June 23	2470	654	31	1594
Coupland, Charles, Seymour, Conn. Loom for weaving double pile fabrics	311,961	Feb. 10	679	186	30	429
Coupland, Charles, Seymour, Conn. Loom for weaving double pile fabrics	312,190	Feb. 10	1001	273	30	541
Coupland, Charles, Seymour, Conn. Machine for preparing the covering for top rolls for drawing and spinning machines	321,952	July 14	749	196	32	144
Coupland, Charles, Seymour, Conn. Roll for drawing and spinning machines	332,998	Dec. 22	2534	068	33	1472
Courtenay, Patrick J., Philadelphia, Pa. Washing-machine	314,318	Mar. 24	1731	461	30	1125
Courtage, William. (See Bates, Henry C., assignor.)						
Courtney, John C., and J. W. Nelson, Streator, Ill. Spark-arrester	327,531	Oct. 6	36	8	33	8
Courtney, John F., et al. (See Martinez, Rafael, assignor.)						
Courtney, Robert W. (See Calder and Courtney.)						
Courtney, William, Richview, Ill. Brooder	322,011	Oct. 13	657	173	33	196
Courtright, Benjamin F., East Saginaw, Mich. Hydrant and street-washer	332,137	Dec. 8	1327	344	33	1943
Couse, Charles, Belleville, N. J. Automatic lubricator for steam-engines	318,108	May 19	1661	445	31	845
Cousins, James J., San Francisco, Cal. Machine for the manufacture of stick-candy	318,454	May 26	2040	551	31	924
Cousins, Jason L., Kane, Pa. Heat-regulating mechanism for incubators	330,379	Nov. 17	1290	342	33	767
Couteau, Louis A., Léonville, France. Reaping and mowing machine	315,327	Apr. 7	549	142	31	99
Couteau, Louis A., Léonville, France. Cover for hay or corn ricks	324,925	Aug. 25	2159	590	32	947
Covel, Milo, Chicago, Ill. Combined straight-edge and gage	317,517	May 12	802	206	31	677
Covel, Milo, Chicago, Ill. Saw-sharpening machine	319,794	June 9	1115	296	31	1261
Covell, Edgar C. (See Cram and Covell.)						
Covell, Edgar C., et al. (See Cram, Eliza S., assignor.)						
Coventry, Charles B., Chicago, Ill. Locomotive-boiler	316,947	May 5	21	6	31	527
Covert, D'Estaing S. (See Brett, Matthew D., assignor.)						
Covert, Enoch, Farmer Village, N. Y. Meat-slicer	329,218	Nov. 3	530	135	33	605
Covert, James C., West Troy, N. Y. Snap-hook	318,545	May 26	2182	524	31	949
Covert, James C., West Troy, N. Y. Chain-connection for harness	319,558	June 16	1356	356	31	1311
Covert, James C., West Troy, N. Y. Bull-lead	326,299	Sept. 22	2224	597	32	1455
Covert Telescopic Fire Ladder and Stand Pipe Company. (See Covert, William T., assignor.)						
Covert, William T., assignor to Covert Telescopic Fire Ladder and Stand Pipe Company, Indianapolis, Ind. Fire-truck	321,342	June 30	3214	{ 857 858 }	31	1668
Covey, John A., et al. (See Taber, William D., assignor.)						
Covington, Philip A., assignor of one-half to A. H. Iverson, Fort Worth, Tex. Coffee-pot	333,222	Dec. 29	2634	767	33	1549
Cowan, Edmund, Boston, Mass. Overgaiter	324,365	Aug. 18	1312	356	32	782
Cowan, John. (See Hannay and Cowan.)						
Cowan, Miles R. B., assignor, by mesne assignments, of two-thirds to H. W. Booth, Windsor, Ontario, Canada, and F. H. Leavenworth, Detroit, Mich. Shield and blotter	310,257	Jan. 6	127	36	30	26
Cowden, William F., Cumberland, Md. Gearing for reverse-shafts	322,798	July 21	1860	494	32	535
Cowden, William F., Cumberland, Md. Canal-convey	323,639	Aug. 4	340	96	32	585
Cowdrey, Robert H. (See Hardy, Dexter D., assignor.)						
Cowell, John J., Newark, N. J. Trunk-catch	317,736	May 12	1072	281	31	727
Cowell, John J., Newark, N. J. Trunk-catch	329,625	Nov. 3	274	71	33	557
Cowell, Julius J., assignor of one-half to S. W. Young, Weedsport, N. Y. Machine for edging and seaming tin roofings	332,643	Dec. 15	2031	{ 533 534 }	33	1373
Cowell, Newell P., Cleveland, Ohio. Car-bumper	323,447	Dec. 29	3148	822	33	1565
Cowell, Newell P. and R. A., and J. F. Herriek, Cleveland, Ohio. Car-coupling	319,823	June 9	1245	322	31	1283
Cowell, Rensselaer A. (See Cowell and Herriek.)						
Cowell, Rensselaer A., Cleveland, Ohio. Car-bumper	319,796	June 9	1119	297	31	1262
Cowen, George D., Taunton, Mass. Blow-pipe	320,461	June 23	2087	550	31	1450
Cowen, William C., Hyde Park, Mass. Car-coupling	324,366	Aug. 12	1313	357	32	783
Cowgill, Christian D., Terre Haute, Ind. Plotter for tanners' use	315,388	Apr. 7	550	142	31	100
Cowin, James S., et al. (See Benedict, Jacob, assignor.)						
Cowing, William J., Washington, D. C. Skater's appliance	320,462	June 23	2082	550	31	1451

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Cowles, Alfred A., New York, N. Y., assignor to Ansonia Brass and Copper Company, Ansonia, Conn. Manufacture of telegraph-conductors	310,258	Jan. 6	128	37	30	96
Cowles, Alfred H. (See Cowles, Eugene H. and A. H.)						
Cowles, Alfred H. (See Cowles, Mabery, and Cowles.)						
Cowles, Edward P., Wequiock, Wis. Universal joint	317,737	May 12	1074	981	31	727
Cowles, Edwin, <i>et al.</i> (See Cowles, Eugene H. and A. H., assignors.)						
Cowles, Eugene H. and A. H., Cleveland, Ohio. Electric smelting-furnace	319,945	June 9	1334	{ 351 352 }	31	1299
Cowles, Eugene H. and A. H., Cleveland, Ohio. Electric process of smelting ore for the production of alloys, bronzes, and metallic compounds	324,658	Aug. 18	1716	472	32	857
Cowles, Eugene H. and A. H., assignors of four-tenths to E. Cowles and C. F. Mabery, Cleveland, Ohio. Smelting ores by the electric current	319,795	June 9	1117	296	31	1361
Cowles, Eugene H., C. F. Mabery, and A. H. Cowles, Cleveland, Ohio. Electric smelting for obtaining aluminium	324,659	Aug. 18	1717		32	857
Cowles, George B. (See Mix and Cowles.)						
Cowles, George B., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Mortise-lock	323,564	Aug. 4	230	70	32	566
Cowles, George B., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Lock	324,818	Aug. 25	1938	533	32	906
Cowles, James A., Chicago, Ill. Hydrocarbon burner	312,976	Feb. 24	2052	560	30	751
Cowles, James A., Chicago, Ill. Argand lamp-burner	313,184	Mar. 3	219	53	30	817
Cowles, James A., Chicago, Ill. Argand lamp-burner	321,381	June 30	3144	838	31	1653
Cowles, Ruel P., New Haven, Conn. Carriage-wheel lock	312,191	Feb. 10	1003	273	30	541
Cowley, James T. (See Clark and Cowley.)						
Cowley, James T., Baltimore, Md. Cash and parcel carrying system for store-service	311,108	Jan. 20	1250	{ 342 343 }	30	244
Cowley, James T., Baltimore, Md., assignor to M. Clark, New York, N. Y. Store-service apparatus	315,739	Apr. 14	1061	278	31	199
Cox, Albert W., Hastings, Nebr. Spring-link for chains	327,865	Oct. 6	465	121	33	82
Cox, Albert W., Hastings, Nebr. Attachment for harness or chains	328,292	Oct. 13	1010	268	33	191
Cox, Alfred, Julietstown, N. J. Cultivator	330,211	Nov. 10	1059	276	33	715
Cox, Arthur W., Newark, N. J. Last	316,246	Apr. 21	1748	460	31	332
Cox, Arthur W., Newark, N. J. Instrument for tracing the outline of the human foot	317,309	May 5	516	132	31	618
Cox, Charles F. (See Hardgrave, Cager, assignor.)						
Cox, Charles J., Nottingham, England. Ornamentation of cloth	317,310	May 5	517	132	31	618
Cox, George E., <i>et al.</i> (See Solano, Renaldo, assignor.)						
Cox, George S., Philadelphia, Pa. Underground conduit for electric conductors	327,383	Sept. 29	2927	{ 763 764 }	32	1576
Cox, Henry F., Philadelphia, Pa. Conduit for wires	328,012	Oct. 13	657	173	33	126
Cox, J. D., Jr., <i>et al.</i> (See Richards, Francis H., assignor.)						
Cox, J. M. (See De La Vega, Miguel, assignor.)						
Cox, John M. (See Pearson, Joseph J., assignor.)						
Cox, Joseph J., assignor of two-thirds to C. J. Cartwright and C. Z. Kelso, Lawrence, Kans. Feed-cooking apparatus	315,389	Apr. 7	551	142	31	100
Cox, Joseph L., Lafayette, Ind., assignor to Duplex Printing Press Company, Battle Creek, Mich. Cylinder printing-machine	332,138	Dec. 8	1329	{ 344 345 }	33	1943
Cox, Joseph L., Lafayette, Ind., assignor to Duplex Printing Press Company, Battle Creek, Mich. Cylinder printing-machine	332,139	Dec. 8	1329	345	33	1943
Cox, Robert M., Prairie City, Ill. Plaiting and ruffling attachment for sewing-machines	316,247	Apr. 21	1749	460	31	331
Cox, Samuel, Booneville, Miss. Horse-power	311,233	Jan. 27	1435	391	30	284
Cox, Sanford C., assignor to himself and J. S. Hanna, Lafayette, Ind. Feeding attachment for cylinder printing-presses	317,929	May 12	1338	359	31	777
Cox, Seaborn J. M., Johnston, S. C. Horse-collar	322,260	July 14	1146	299	32	218
Cox, Stephen J. (See Stewart, George W., assignor.)						
Cox, Stephen J., New York, N. Y. Device for salting cattle	321,582	July 7	237	63	32	46
Cox, Stephen J., New York, N. Y. Calendar	327,532	Oct. 6	38	8	33	8
Cox, Sylvanus, Indianapolis, Ind. Machine for making conveyer-flights	328,013	Oct. 13	659	{ 173 174 }	33	126
Cox, Thomas, Gloster, Mont. Ter. Miner's candlestick	321,799	July 7	532	140	32	99
Cox, Thomas J., Gainesville, Tex. Metallic post for wire fences	314,654	Mar. 31	2189	520	30	1234
Cox, William, Tallahas, Ga. Cultivator	328,193	Oct. 13	891	231	33	169
Cox, William H., Virden, Ill. Gate	322,352	July 14	1264	330	32	240
Cox, William S. (See Topliff, Cross, Cox, and McCollum.)						
Coreter, Samuel J., and H. Nehmer, 23 Grafton Street East, county of Middlesex, England. Making plates or masses of carbon	325,922	Sept. 8	821		32	1173
Coy, Frederick W., assignor to G. H. P. Flagg, trustee, Boston, Mass. Apparatus for moulding sand-paper	325,789	Sept. 8	773	{ 193 194 }	32	1164
Coy, Frederick W., assignor to Mansell Heel Machine Company, Boston, Mass. Heel-machine	329,022	Oct. 27	2029	{ 526 527 }	33	391
Coy, Henry E. (See Cromwell and Coy.)						
Coy, Perry, East Toledo, Ohio. Sled	325,658	Sept. 8	586	149	32	1131
Coyle, Thomas, Apponaug, R. I. Fork	316,334	Apr. 21	1859	492	31	350
Coyne, John, Allegheny, Pa. Nail-plate	331,944	Dec. 8	1040	269	33	1194
Crabb, James T., Eminence, Ky. Hitching device	318,169	May 19	1662	445	31	846
Crabbe, James W., Brooklyn, N. Y. Roofing and siding board	318,872	May 26	2611	693	31	1025
Crabtree, Hamilton S., Anna, Ill. Feed-rack	327,070	Sept. 29	2503	654	32	1501
Cracraft, Richard, Berwick, assignor of one-half to J. H. Miller, Abingdon, Ill. Cultivator	311,645	Feb. 3	945	69	30	395
Crafts, Samuel P., Hamilton, Conn. Machine for pressing bricks	315,601	Apr. 14	871	229	31	161
Crafts, Wilbur F., New York, N. Y. Paper-file	321,950	July 14	747	195	32	144
Cragg, John, Brooklyn, N. Y. Revolving letter or character sign	318,960	June 2	40	11	31	1056
Cragg, Samuel W., Baltimore, Md. Construction of pavements	315,740	Apr. 14	1063	279	31	199
Crago, William, Carbondale, Pa. Platform-spring	317,095	May 5	217	55	31	563
Craig, Andrew J., Hickory, Miss. Cultivator	313,811	Mar. 10	1050	269	30	981
Craig, Andrew J., Hickory, Miss. Plow	324,660	Aug. 18	1718	473	32	857
Craig, Daniel H., agent. (See Evans, Charles H., assignor.)						
Craig, Isaac E., Camden, Ohio. Manufacture of sheet iron	321,693	July 7	381	102	32	71
Craig, James. (See Baker and Craig.)						
Craig, John A., Lauderdale, Miss. Car-coupling	315,602	Apr. 14	872	229	31	162
Craig, John W., Detroit, Mich. Feeding device	324,090	Aug. 11	923	255	32	703
Craig, Lloyd A., Woodson, Ill. Boiler-cleaner	311,296	Jan. 27	1529	416	30	301
Craig, Thomas. (See Wilson, William P., assignor.)						
Craig, Warren H., Lawrence, Mass. Steam-engine lubricator	314,214	Mar. 17	1585	420	30	1088
Craig, Warren H., Lawrence, Mass. Steam-engine lubricator	322,912	July 28	2036	537	32	393
Craig, Warren H., Lawrence, Mass. Steam-engine lubricator	331,772	Dec. 8	791	200	33	1147
Craig, William, Brooklyn, N. Y. Getting up steam in steam-boilers	327,659	Oct. 6	917	54	33	38
Craig, William S., Springfield, Ohio. Anchor-bolt	332,701	Dec. 22	2131	562	33	1397

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Craighead, Horace M. (See Souders, Smith, Craighead, and Souders.)						
Crain, James H., Junction, Ill. Fence	337,384	Sept. 29	2928	764	32	1576
Cram, Alonzo W., Haverhill, Mass., assignor to Adjustable Elbow and Damper Company, Nashua, N. H. Elbow for stove-pipes	319,884	June 9	1247	329	31	1284
Cram, Elisha S., Laconia, N. H. Sewing-machine	315,914	Apr. 14	1308	340	31	943
Cram, Elisha S., and E. C. Covell, Laconia, N. H. Mechanism for sewing and trimming fabrics	317,930	May 12	1339	359 360	31	778
Cram, Elisha S., assignor of three-fourths to E. C. Covell, Laconia, J. S. Crane and B. F. Drake, Lake Village, N. H. Sewing to fasten the ends of sewed seams	315,916	Apr. 14	1310	341	31	943
Cram, Elisha S., and E. C. Covell, Laconia, N. H. Sewing-machine	328,293	Oct. 13	1011	963	33	191
Cram, Elisha S., and E. C. Covell, Laconia, assignors of one-half to J. S. Crane and B. F. Drake, Lake Village, N. H. Sewing-machine	315,742	Apr. 14	1065	279	31	900
Cram, Elisha S., and E. C. Covell, Laconia, assignors of one-half to J. S. Crane and B. F. Drake, Lake Village, N. H. Sewing-machine	315,915	Apr. 14	1309	341	31	943
Cram, Madison H., Pawtucket, R. I. Entering-guide for calendering-rolls	833,283	Dec. 29	2984	767 768	33	1549
Cramer, Don, Walnut, Iowa. Plant-shield for cultivators	322,524	July 21	1509	397	32	220
Cramer, Elijah D., Youngstown, Ohio. Pendulum-level	313,290	Mar. 3	367	91	30	843
Cramer, James A., Morristown, N. J. Door saddle or sill	317,630	May 12	944	242	31	702
Cramer, Michael, assignor of one-third to J. J. Starin, Whitewater, Wis. Car-coupling	320,335	June 16	1891	497	31	1406
Cramp & Sons Ship and Engine Building Company, William. (See See, Horace, assignor.)						
Crampton, Albert. (See Beldon, Emerson, assignor.)						
Crampton, Harry I., assignor to Goodyear's Metallic Rubber Shoe Company, Naugatuck, Conn. Overshoe	331,036	Nov. 24	2127	577	33	934
Crandall, George L., Binghamton, N. Y. Carriage-joint rivet	327,385	Sept. 29	2929	764	32	1576
Crandall, Jesse A., Brooklyn, N. Y. Child's carriage	323,401	Aug. 4	29	6	32	527
Crandall, Jesse A., Brooklyn, N. Y. Combined chair and couch	324,661	Aug. 19	1719	473	32	857
Crandall, Jesse A., Brooklyn, N. Y. Support for carriage-tops	322,023	Oct. 27	2033	527	33	392
Crandall, Lucien S. (See Lake and Crandall.)						
Crandall, William E., New York, N. Y. Rocking-horse	326,721	Sept. 22	2035	529	32	1410
Crane, Augustus S., Newark, N. J. Electric clock	311,234	Jan. 27	1436	391 392	30	284
Crane Brothers Manufacturing Company. (See Bassett, Norman C., assignor.)						
Crane Brothers Manufacturing Company. (See Crane, Charles E., assignor.)						
Crane Brothers Manufacturing Company. (See Reynolds, George H., assignor.)						
Crane, Calvin D., St. Louis, Mo. Paper clip or file	322,913	July 26	2039	538	32	394
Crane, Charles R., assignor to Crane Brothers Manufacturing Company, Chicago, Ill. Hydraulic valve for elevators and other apparatus	319,678	June 9	985	253	31	1233
Crane & Co. (See Crane, Edward N., assignor.)						
Crane & Co. (See Hanford, Robert G., Jr., assignor.)						
Crane, Edward N., assignor to Crane & Co., Newark, N. J. Harness-trimming	319,461	June 9	668	179	31	1181
Crane, Edward N., assignor to Crane & Co., Newark, N. J. Harness-trimming	319,462	June 9	669	179	31	1181
Crane, Edward Q., New York, assignor of one-half to R. Hampton, Brewster, N. Y. Soldering-forceps	328,467	Oct. 20	1255	326	33	944
Crane, George W., Topeka, Kans. Envelope	310,495	Jan. 6	423	117	30	89
Crane, John S., et al. (See Cram, Elisha S., assignor.)						
Crane, John S. (See Cram and Covell, assignors.)						
Crane, Martin H., Cincinnati, Ohio. Boot for drivers' seats for vehicles	325,914	Sept. 8	923	233	32	1193
Crane, Michael, Brooklyn, N. Y., and J. L. Firm, Jersey City, N. J. Stereotype-plate	311,175	Jan. 27	1351	370	30	269
Crane, Moses G., Newton, Mass. Lock-nut	327,773	Oct. 6	349	90	33	61
Crane, Moses G., Newton, Mass. Gas-engine	327,866	Oct. 6	465	121	33	88
Crane, Orris S., Detroit, Mich. Feather-renovator	320,540	June 23	2188	578	31	1468
Crane, Richard T., Chicago, Ill. Lubricator for steam-engine cylinders	315,128	Apr. 7	186	46	31	34
Crane, Thomas R., Heathsville, Va. Fertilizer-feed for drills	319,393	June 2	587	151	31	1154
Crane, Thomas R., Heathsville, Va. Combined grain-drill, seed-sower, fertilizer-distributor, and roller	331,687	Dec. 1	668	165	33	1116
Crane, William, Boston, Mass. Car-coupling	324,814	Aug. 25	1931	531	32	904
Crane, Thomas. (See Barker and Crane.)						
Cranon, Giles S., Silver Creek, N. Y. Grain scourer and separator	328,385	Oct. 13	1151	297	33	917
Cranon, Giles S., Silver Creek, N. Y. Grain-scourer	329,365	Oct. 27	2529	652	33	481
Crary, Cushman W., Chicago, Ill. Lathe-chuck	311,962	Feb. 10	680	186	30	482
Crary, William. (See Lockwood and Crary.)						
Craes, Frederick H., Murfreesborough, Tenn., assignor of one-fourth to W. P. and C. F. Fogarty, Louisville, Ky. Rotary engine	322,353	July 14	1266	331	32	241
Craven, Edward T., assignor of one-half to E. R. Burke, Easton, Pa. Shirt	330,295	Nov. 10	1166	310	33	736
Craven, Gershom T. (See Emery, Lowell M., assignor.)						
Craven, Thomas, Delaware, Ohio. Corn-planter	317,311	May 5	518	132	31	618
Craven, Thomas C., Greenbush, assignor of one-half to A. Schell, Albany, N. Y. Supplying air to the furnaces of locomotive-boilers	311,475	Feb. 3	17	5.6	30	351
Craven, Thomas C., Greenbush, assignor to Automatic Traction Draw Bar Company, Albany, N. Y. Draw-bar for locomotives	311,963	Feb. 10	682	187 188	30	482
Craver, Steele & Austin. (See Leffler, Paul W., assignor.)						
Crawford, Charles H., New York, N. Y. Overseaming-machine	330,469	Nov. 17	1411	375 376	33	789
Crawford, Charles W., Brazil, Ind. Cut-off table for tile-machines	328,194	Oct. 13	891	232	33	169
Crawford, Harry C., and E. V. Mundy, Duluth, Minn. Cant-hook	325,058	Aug. 25	2255	619	32	965
Crawford, James G. (See Poland and Crawford.)						
Crawford, James G. (See Smith, Benjamin C., assignor.)						
Crawford, John M., Philadelphia, Pa. Combined alarm-clock and lamp-regulating mechanism	313,300	Mar. 3	364	94.95	30	846
Crawford, John M., Philadelphia, Pa. Illuminated clock	317,096	May 5	218	55	31	563
Crawford, John M., Philadelphia, Pa. Combined alarm-clock and lamp-regulating mechanism	317,312	May 5	519	132	31	618
Crawford, John R. M., Boonville, Miss. Bridle	314,607	Mar. 31	2408	637	30	1276
Crawford, Robert F. (See Strain, Ebenezer W., assignor.)						
Crawford, Robert F., New Castle, Pa. Vehicle-seat	324,662	Aug. 18	1790	473	32	857
Crawford, Samuel E., Ripon, Wis. Valve-gear	321,563	July 7	238	63	32	46
Crawley, James. (See Cassidy, Peter B., assignor.)						
Crawley, John B., Brooklyn, N. Y. Grate-bar	312,614	Feb. 24	1581	432 433	30	667
Crawshaw, Thomas. (See Nelmes and Crawshaw.)						
Creamer, Henry, New York, N. Y. Steam feed-water trap	313,854	Mar. 17	1117	290	30	1001
Creasy, John T. (See White, Ross, Creasy, and Gritton.)						
Creed, William, et al. (See Tickle and Leonardt, assignors.)						
Creelman, John A., Rochester, N. Y. Feed-water regulator	319,959	June 16	1358	356	31	1311

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Creselman, William J., assignor to Woodbury Engine Company, Rochester, N. Y. Engine cross-head	324,367	Aug. 18	1314	357	32	783
Creson, Patrick T., Troy, N. Y. Burial-case	323,424	July 21	1365	356	32	968
Cresmille, Crittenden, assignor of one-half to E. E. Neff, Delaware, Ohio. Extension-door for holland-cases	330,380	Nov. 17	1291	342	33	767
Creighton, Bernard. (See Kennerley and Creighton.)						
Creighton, James M., et al. (See McCarty, William F. M., assignor.)						
Cramer, John H., Braddock, Pa. Drying air for metallurgic operations	330,381	Nov. 17	1292	343	33	767
Crescent Combination Pavement Company. (See Hoyt, Frederick J., assignor.)						
Crescent Manufacturing Company. (See Schuster, George P., assignor.)						
Cress, Daniel N. (See Nixon and Cress.)						
Cressey, Isaiah, Boston, assignor to Porter Manufacturing Company, Revere, Mass. Wrench	314,517	Mar. 24	2004	534	30	1174
Cressey Meter Company. (See Maxwell, George S., assignor.)						
Cresson, George V. (See Pessano, Antonio C., assignor.)						
Creusbaun, Robert, Brooklyn, N. Y., assignor to Westinghouse Machine Company, Pittsburg, Pa. Steam-engine	332,499	Dec. 15	1812	475 476	33	1335
Creusbaun, Robert, Brooklyn, N. Y., assignor to Westinghouse Machine Company, Pittsburg, Pa. Steam-engine	332,500	Dec. 15	1815	476	33	1335
Creusbaun, Robert, Brooklyn, N. Y., assignor to Westinghouse Machine Company, Pittsburg, Pa. Steam-engine	332,501	Dec. 15	1818	476 477	33	1336
Creusbaun, Robert, Brooklyn, N. Y., assignor to Westinghouse Machine Company, Pittsburg, Pa. Steam-engine	332,502	Dec. 15	1820	477	33	1336
Creveling, Lewis, Akron, Ohio, assignor to Howes & Ewell, Silver Creek, N. Y. Flour-packer	310,496	Jan. 6	423	117	30	82
Creviston, John R., Unionville, assignor to T. W. Frasier, Pollock, Mo. Buggy-top-bow protector	333,058	Dec. 22	2611	664	33	1485
Crew, Alfred, Paterson, N. J. Machine for finishing silk fabrics	332,235	Dec. 15	1460	380 381	33	1273
Cridge, Matthew, and T. H. Carlin, Allegheny, Pa., assignors to T. H. Carlin. Upright boiler	332,188	Dec. 8	1390	360	33	1254
Crikelair, Gustave J., New York, N. Y. Fire-alarm	317,931	May 12	1339	360	31	778
Criley, Benjamin F., Isabella, Pa. Cider mill and press	317,313	May 5	521	133	31	619
Crippen, Daniel F., Riverside, Cal. Cover for milk-cans	394,539	Aug. 18	1543	426	32	894
Crippen, Henry M. and J. M., Big Run, Ohio. Wagon-brake	332,789	Dec. 22	2239	590 591	33	1418
Crippen, John M. (See Crippen, Henry M. and J. M.)						
Crisle, Michael. (See Scoets, George N., assignor.)						
Crisler, Bascom, Crawford, Miss. Tire-tightener	319,885	June 9	1248	329	31	1284
Crisman, George T. (See Crisman, Virgil H. and G. T.)						
Crisman, Virgil H. and G. T., Branchville, N. J. Flume-rack cleaner	332,790	Dec. 22	2241	591	33	1419
Crisp, Joseph E. (See Copeland and Crisp.)						
Crisp, Joseph E., Boston, Mass. Tacking-machine	329,366	Oct. 27	2531	652	33	481
Crisp, Joseph E., Boston, and G. W. Copeland, Malden, Mass. Machine for lasting boots or shoes	329,367	Oct. 27	2533	653	33	482
Crisp, Walter H. (See Fowler and Crisp.)						
Crispin, Thomas, Detroit, Mich. Centricycle or bicycle	333,448	Dec. 29	2149	822	33	1586
Crist, William E., New York, N. Y. Vibrating-piston engine	316,606	Apr. 28	2929	582	31	494
Crist, William E., New York, N. Y. Bearing for shafts and pulleys	322,525	July 21	1510	397	32	291
Criswell, William T., et al. (See Bond, Nathan O., assignor.)						
Critchett, Oliver G., Belfast, Me. Heel-burnishing machine	313,185	Mar. 3	220	53 54 55	30	817
Critchfield, Calvin, Shields, Ind. Pounder or washing machine	330,926	Nov. 10	1167	310	32	736
Crites, Silas J., assignor of one-half to J. C. Hiesem, Ashland, Ohio. Rope-fastener	321,799	July 7	533	141	32	99
Crites, Stanley M., Pipestone, Mich. Bob-sleigh	310,861	Jan. 20	921	251	30	186
Croske, Charles A., et al. (See Detwiler, Albert, assignor.)						
Croske, Daniel, et al. (See Detwiler, Albert, assignor.)						
Croal, William, Brooklyn, assignor to Blun & Henius Manufacturing Company, New York, N. Y. Machine for covering, measuring, and cutting off strips, &c	323,119	July 28	2329	617	32	448
Crocker, Benjamin S., Topeka, Kans. Hoisting and carrying machine	331,773	Dec. 8	792	200 201	33	1147
Crocker, Charles T., et al. (See Hodges, Horace F., assignor.)						
Crocker, Frederick, Olean, N. Y. Pipe-wrench	318,089	May 19	1559	418	31	826
Crocker, Frederick W., Macedon, N. Y. Ice-cream box	315,129	Apr. 7	187	46	31	34
Crocker, Frederick W., Macedon, N. Y. Bustle	318,599	May 26	2242	600	31	980
Crocker, Henry, Bristol, R. I. Book-holder	314,436	Mar. 24	1889	504	30	1155
Crocker, Henry, Bristol, R. I. Book-holder	314,437	Mar. 24	1889	504	30	1156
Crocker, John. (See Crocker, Pitzer M., assignor.)						
Crocker, John B., St. Louis, Mo., assignor to J. W. Thomas and J. B. Seghers, Jr., Chicago, Ill. Stove	314,286	Mar. 24	1691	451	30	1117
Crocker, John H., Brussels, assignor to P. J. Edmunds, London, Ontario, Canada. Bath	323,300	Dec. 29	2818	737	33	1527
Crocker, Pitzer M., McNairy, Tenn., assignor of one-half to J. Crocker, Garland, Ark. Nut-lock	312,555	Feb. 17	1510	412	30	644
Crockett, Charles F., Mount Vernon, N. Y. Railway-car	317,314	May 5	525	133	31	619
Crockett, Charles F., Mount Vernon, N. Y. Chamber-pail	318,873	May 26	2612	693	31	1025
Crockett, Charles F., Mount Vernon, N. Y. Package for whitewash	322,583	July 21	1590	419	32	304
Crockett, Charles F., Mount Vernon, N. Y. Carpet-stretcher and tack-driver combined	322,799	July 21	1861	495	32	355
Crockett, Charles H., and C. C. Allen, Boston, Mass. Locking and unlocking mechanism for electric locks	323,918	Aug. 11	692	194	32	660
Crockett, Fred P., Detroit, Mich. Automatic oiler	311,109	Jan. 20	1252	343	30	245
Crockett, James, Bloomingdale, Pa. Record-tablet	311,724	Feb. 3	340	94	30	413
Crockett, James D., Ripley, Miss. Flame-fastener	320,336	June 16	1892	497	31	1406
Croft, Edward, deceased, Waterbury, M. Croft administratrix, and assignor to J. Shepard, New Britain, Conn. Machine for finishing horseshoe-nails	329,538	Nov. 3	157	40 41 42 43	33	535
Croft, Henry, Jr. (See Paxson and Croft.)						
Croft, John F. (See Barber, Ira, assignor.)						
Croft, Margaret, administratrix. (See Croft, Edward.)						
Croft, John A., et al. (See Wheeler, Dwight, assignor.)						
Croissant, Charles. (See Mass, John J., assignor.)						
Croker, Michael H. (See Bowlin and Croker.)						
Cromble, William A., et al. (See Sabin, Alvah H., assignor.)						
Crompton, George, Worcester, Mass. Chimney-top	319,074	June 2	176	47	31	1090

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Cromwell, Andrew J., Baltimore, Md. Car-brake	317,315	May 5	525	134	31	620
Cromwell, Frank Y., Erie, Pa. Disinfectant	326,479	Sept. 15	1671		32	1338
Cromwell, George O., and H. E. Coy, Toledo, Ohio. Process of and apparatus for reclaim- ing oil previously used in mechanical operations	322,425	July 21	1366	357	32	265
Cronmeyer, William C., Pittsburg, Pa. Fire-escape	318,600	May 26	2242	601	31	960
Cronin, Frank, Deming, N. Mex. Ter. Tool-handle	330,774	Nov. 17	1791	423	33	863
Cronin, John, New Orleans, La. Truss	311,570	Feb. 3	150	43	30	377
Cronk, William, Havana, N. Y. Post and stake bar	318,601	May 26	2243	601	31	960
Cronyn, John L. C., Buffalo, N. Y. Combined thread outter and holder	314,518	Mar. 24	2005	535	30	1174
Cronyn, John L. C., Buffalo, N. Y. Cigar-holder	319,886	June 9	1248	329	31	1224
Crook, William, Salisbury, England. Fire-place	310,882	Jan. 20	922	252	30	186
Crooke, John J., New York, N. Y. Manufacture of tin-foil	315,007	Apr. 7	29		31	7
Crooke, John J., New York, N. Y. Tin-foil	315,008	Apr. 7	30		31	7
Crooke, John J., New York, N. Y. Making tin-foil	315,009	Apr. 7	32		31	7
Crooks, Thomas H., Newberry County, S. C. Cultivator	329,819	Nov. 3	530	135	33	605
Croom, Wiley G., Vicksburg, Miss. Domestic oven	323,280	July 28	2547	677	32	498
Cropper, Joseph C., Cedar Falls, Iowa. Roller-skate	314,916	Mar. 31	2557	676	30	1302
Cropper, Joseph C., Cedar Falls, Iowa. Roller-skate	332,189	Dec. 8	1391	360	33	1254
Cros, Edouard. (See Muratori and Cros.)						
Crosby, Adon D., Cuba, N. Y. Combination-tool	317,738	May 12	1075	282	31	728
Crosby, Charles P., et al. (See Huber, Jacob, assignor.)						
Crosby, Darwin E., Philadelphia, Pa., assignor to Continental Store Service Company, New York, N. Y. Store-service apparatus	321,343	June 30	3217	858	31	1668
Crosby, George H., Somerville, Mass. Safety-valve	318,961	June 2	41	11	31	1056
Crosby, George S., Bridgeport, Conn. Toy	330,297	Nov. 10	1167	311	33	736
Crosby, George S., Bridgeport, Conn. Toy locomotive	330,299	Nov. 10	1168	311	33	737
Crosby, George S., Brooklyn, N. Y. Toy vehicle-team	330,298	Nov. 10	1168	311	33	736
Crosby, George W., Good Hope, Ark. Clothes-washer	331,037	Nov. 24	2128	577	33	964
Crosby Steam Gage and Valve Company. (See Brown, Gilman W., assignor.)						
Crosby, William F., et al. (See Huber, Jacob, assignor.)						
Cross, Christopher G., assignor to W. H. Banks and O. P. Briggs, Chicago, Ill. Nut-tap- ping machine	327,533	Oct. 6	38	8, 9	33	9
Cross, Edward S. (See Topliff, Cross, Cox, and McCollum.)						
Cross, Flavia J., Kersey, Pa. Lamp-bracket	321,887	July 7	658	171	32	120
Cross, Frank, Washington, Ind. Burglar-alarm	319,566	June 9	807	215	31	1208
Cross, Frank W., Washington, D. C. Power-press	317,600	Oct. 6	920	54	33	39
Cross, Frederick E., Waterbury, Conn. Divided pulley	328,328	Oct. 13	1153	297	33	918
Cross, James M., assignor of one-fourth to W. E. Conner, Marietta, Ohio. Earth-auger	317,739	May 12	1076	282	31	728
Cross, John R., deceased; M. L. Cross, administratrix, and assignor, by means assignments, to M. L. Cross, Chicago, Ill. Wood-bending machine	314,229	Mar. 24	1612	426	30	1102
Cross, John R., deceased; M. L. Cross, administratrix, and assignor, by means assignments, to M. L. Cross, Chicago, Ill. Wood-printing machine	317,518	May 12	803	206	31	677
Cross, Mary L., administratrix. (See Cross, John R.)						
Cross, Farmer R., Lowell, Ind. Cider-press	315,010	Apr. 7	34	7	31	8
Cross, Farmer R., Lowell, Ind. Cider-press	330,470	Nov. 17	1414	377	33	790
Cross, Washington, Pulaski, Tenn. Tire-tightener	313,069	Mar. 3	36	9	30	724
Cross, William C., Boston, Mass. Preparing the uppers of boots or shoes for lasting	313,301	Mar. 3	385	95	30	846
Cross, William C., Boston, Mass. Preparing uppers for lasting	316,877	Apr. 28	2628	625	31	498
Cross, William C., Boston, Mass. Lasting the uppers of boots or shoes	324,304	Aug. 11	1224	333	32	758
Cross, William C., Boston, Mass. Machinery for making satchel-bottom paper bags	325,059	Aug. 25	2256	690	32	966
Cross, William C., Boston, Mass., assignor to Standard Boot and Shoe Lasting Company, Portland, Me. Lasting boots or shoes. (Reissue)	10,642	Sept. 1	567	144	32	1122
Cross, William T., Whiteville, Tenn. Horse-power	317,519	May 12	804	206	31	677
Crossen, Patrick I. (See McCrystal and Siegfried, assignors.)						
Crossley, Edward, and R. Cochrane, Halifax, county of York, England. Pile wire for looms	330,821	Nov. 17	1851	499	33	874
Crossley, James, assignor to J. Kenyon, Bury, county of Lancaster, England. Paper-ma- ker's cotton drying-felt, printer's machine-blanket, and other machinery cloths	313,994	Mar. 17	1308		30	1037
Crossley, Joseph, and H. T. Cook, Trenton, N. J. Press for forming articles of pottery-ware	320,541	June 23	2189	578	31	1469
Crosley, William, et al. (See Chamberlain, William T., assignor.)						
Crotchett, A. I. (See Hornor and Crotchett.)						
Crothers, Noble E., Paxton, Ill. Check-rower for corn-planters	312,977	Feb. 24	2053	561	30	752
Crothers, Noble E., Paxton, Ill. Check-row planter	318,874	May 26	2612	693	31	1026
Crotty, John S., Chicago, Ill. Corset	329,368	Oct. 27	2735	653	33	482
Crouan, Henri M. L., Paris, France. Cylinder	316,749	Apr. 28	2454	639	31	414
Crouch, George, New York, N. Y. Trunk	324,091	Aug. 11	924	255	32	702
Crouch, Lucious C. (See Clark and Crouch.)						
Crouse, George W., Lexington, N. C. Wash-tub	326,480	Sept. 15	1671	437	32	1338
Crouthers, James A. (See Sanford, Hopkins A., assignor.)						
Crow, Abijah T., Clarinda, Iowa. Check-rower wire anchor or equalizer	328,879	Oct. 20	1794	468	33	342
Crow, Alfred E. and W. L., New York, N. Y. Apparatus for separating or concentrating materials of different specific gravities	312,333	Feb. 17	1198	328	30	506
Crow, Benjamin F., Nebraska City, Nebr. Harrow	313,474	Mar. 10	609	157	30	899
Crow, Henry, Grand Rapids, Mich. Milling-sput for conducting granular pulverized ma- terial	321,888	July 7	659	171	32	120
Crow, William L. (See Crow, Alfred E. and W. L.)						
Crowden, Charles T. (See Pansey and Crowden.)						
Crowe, Charles M., Chicago, Ill. Animal-trap	331,945	Dec. 8	1041	270	33	1194
Crowell, Hilen C., Erie, Pa. Universal shaft-coupling	333,449	Dec. 29	3150	823	33	1566
Crowell, Horace S. (See Pattysen, William D. C., assignor.)						
Crowell, Luther C., Brooklyn, N. Y. Web-perfecting printing-machine	317,740	May 12	1077	282	31	728
Crowell, Luther C., Brooklyn, N. Y. Printing-machine	325,197	Aug. 25	2435	669	32	998
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Sheet-delivery apparatus	312,258	Feb. 17	1092	301	30	508
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Sheet-delivery apparatus for printing-machines	313,475	Mar. 10	610	158	30	899
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Web-associat- ing apparatus	316,120	Apr. 21	1588	413	31	301
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Mechanism for printing marks on the margins of sheets	316,121	Apr. 21	1590	414	31	301

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Folding-machine	316,122	Apr. 21	1591	415	31	302
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Sheet-delivery apparatus	316,123	Apr. 21	1594	416	31	302
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Delivery mechanism for web-printing machines	317,741	May 12	1083	284	31	729
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Sheet-delivery apparatus	317,742	May 12	1087	285	31	729
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Printing-machine	324,986	Aug. 25	2160	500	32	947
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Sheet-superimposing mechanism	328,880	Oct. 20	1795	591	33	343
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Folding-machine	331,280	Dec. 1	18	56	33	1004
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Folding apparatus	331,281	Dec. 1	26	67	33	1005
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Counting mechanism for sheet-delivery apparatus	331,282	Dec. 1	32	78	33	1006
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Web-threading apparatus	331,283	Dec. 1	37	89	33	1006
Crowell, Luther C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Sheet-delivery apparatus	332,236	Dec. 15	1462	381	33	1274
Crowfoot, Issachar, Hartford, Wis. Ice-cutting machine	313,995	Mar. 17	1309	342	30	1037
Crowfoot, Issachar, Hartford, Wis. Gate-hanger	326,548	Sept. 22	1702	461	32	1362
Crowley, Daniel, Boston, Mass. Velocipede	323,640	Aug. 4	341	97	32	585
Crowley, Daniel, Boston, Mass. Cane	325,198	Aug. 25	2439	670	32	998
Crowley, James, et al. (See O'Brien, Timothy, assignor.)						
Crowley, John H., Philadelphia, Pa. Shuttle-box operating mechanism for looms	313,578	Mar. 10	735	193	30	923
Crowley, John H., Philadelphia, Pa. Machine for winding bobbins for loom-shuttles	320,251	June 23	2579	194	31	1544
Crown Manufacturing Company. (See Sheldon and Peacock, assignors.)						
Crownson, William L., assignor to Milburn Gin and Machine Company, Memphis, Tenn. Cotton-gin	314,917	Mar. 31	2558	676	30	1302
Crowther, David W., Hagerstown, Md. Horse-hitching device	316,878	Apr. 28	2629	685	31	496
Crowther, George, assignor of one-half to T. Nieman, Cincinnati, Ohio. Bedstead	316,335	Apr. 21	1860	492	31	350
Crowthers, Abner M., et al. (See Ranta, William E., assignor.)						
Croxton, Samuel W. (See Deis and Croxton.)						
Cruger, James H., Cruger, N. Y. Folding car-stap	329,440	Nov. 3	19	6	33	508
Crüger, Theodor, New York, N. Y. Chimney-cowl	312,978	Feb. 24	2055	561	30	752
Cruikshank, George M., Providence, R. I. Die for covering wire with insulating material	336,021	Sept. 8	1062	270	32	1218
Crum, James C., Ladiesburg, Md. Washing-machine	327,922	Oct. 6	530	141	31	96
Crumley, E. Miner, Springfield, assignor of one-half to T. J. Arnold, Boswell, Ohio. Combined whip-socket and rein-holder	311,815	Feb. 3	455	124	30	434
Crummey, William J., et al. (See Heron, John, assignor.)						
Crump, John, and R. Brereton, Philadelphia, Pa. Stone-cutting machine	318,962	June 2	43	11	31	1056
Crump, Jotham S., Westfield, N. Y. Sash-fastening	319,867	June 9	1249	329	31	1224
Crump, Samuel. (See Betts, Robert W., assignor.)						
Cruzan, Isaac, and B. F. Cargay, Pomona, Kans.; said Cruzan assignor to said Cargay. Check-row corn-planter	320,252	June 23	2580	683	31	1544
Cryderman, Jacob. (See Holbrook, Byron, assignor.)						
Cuisinier, Léon, Paris, France. Manufacturing maltose	311,417	Jan. 27	1694	297	30	332
Cuisinier, Léon, Paris, France. Liquefaction, dextrination, and saccharification by means of malt of the starch in amylaceous substances	311,646	Feb. 3	246	297	30	395
Culbertson, John J., Paris, Tex.; J. C. O'Connell, Montgomery, Ala., and B. Gaston, Paris, Tex. Box for meat and oil presses	318,875	May 26	2614	694	31	1026
Culbertson, John N. (See Moore and Culbertson.)						
Culbertson, William I., et al. (See Jesse, Robert, assignor.)						
Culbertson, William W. (See Roberts, Edward J., assignor.)						
Cullen, Charles S., et al. (See Yeutzer, Enoch S., assignor.)						
Cullen, James K., and J. W. See, assignors to Niles Tool Works, Hamilton, Ohio. Lathe	312,615	Feb. 24	1582	433	30	667
Cullen, John, Janesville, Wis. Harrow	325,734	Sept. 8	702	175	32	1151
Cullen, Michael, Hartford, Conn. Sheet-metal-bending machine	328,387	Oct. 13	1154	297	33	218
Cullen, Thomas, deceased; P. Kerrin, New York, N. Y., executor. Magazine fire-arm	333,307	Dec. 29	2971	777	33	1556
Cullingworth, George R., New York, N. Y. Valve for rock-drills	310,653	Jan. 13	629	174	30	126
Cullingworth, George R., New York, N. Y. Rock-drill tripod	327,923	Oct. 6	540	141	33	97
Cullingworth, George R., New York, N. Y. Rock-drill	328,195	Oct. 13	893	232	33	169
Cullingworth, George R., New York, N. Y. Rock-drilling machine	328,196	Oct. 13	894	232	33	169
Cullingworth, George R., New York, N. Y. Machine for cutting, chipping, &c	328,197	Oct. 13	895	232	33	170
Culmer, John W., assignor to Logan & Strobridge, New Brighton, Pa. Bracket for lamps	322,922	Oct. 27	1870	488	33	363
Culp, James D., San Felipe, Cal. Demonstrative electrical apparatus	311,725	Feb. 3	341	94	30	413
Culp, Samuel T., assignor of one-half to A. G. Peuchen, Toronto, Ontario, Canada. Revolving show-stand	324,663	Aug. 18	1790	473	32	857
Culver, Arthur T., assignor to J. J. Parkhurst, Chicago, Ill. Horseshoe-bar	321,420	July 7	8	2	32	4
Culver, Darius M., assignor of one-half to R. Owen, Tipton, Iowa. Check-row corn-planter	320,853	May 5	701	176	31	649
Culver, Fitz E., Chicago, Ill. Furnace-grate	321,951	July 14	748	195	32	144
Culver, John M. (See Hoyt, Lewis S., assignor.)						
Culver, Lucius L., St. Louis, Mo. Grate	326,481	Sept. 15	1673	437	32	1339
Culver, Willard B. (See Thomas, William Y., assignor.)						
Culverson, Charles, Weoscoville, Pa. Dumping-car	318,170	May 19	1663	446	31	846
Cumback, Herbert H., assignor to J. A. Bloom, Springfield, Ohio. Rotary plow	320,853	June 23	2582	684	31	1545
Cumberbatch, Isaac, Newark, N. J. Steam-trap	327,433	Sept. 29	2987	780	32	1587
Cuming, Alfred A., Hingham, assignor of one-half to E. Arnold, Marblehead, and F. S. Whitman, Cambridge, Mass. Sewing	313,063	Mar. 3	36	9	30	785
Cuming, Alfred A., Hingham, assignor of one-half to E. Arnold, Marblehead, and F. S. Whitman, Cambridge, Mass. Sewing-machine	322,201	Dec. 29	2819	738	32	1528
Cummings, Charles J., Prohle, N. Y. Potato-digger	323,644	Dec. 15	2037	534	33	1374

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Cummings, Daniel M., deceased, assignor, by means assignments, to Compound Lumber Company, New York, N. Y. Compound lumber. (Reissue).....	10,599	May 26	2689	712	31	1040
Cummings, Eustace, Woburn, Mass. Leather-splitting machine.....	339,385	Dec. 15	1671	437 438 269	33	1310
Cummings, George W. and J. R., assignors to American Press Association, Chicago, Ill. Electrotypes shell and base.....	313,812	Mar. 10	1051	270 341	30	961
Cummings, Hannibal, Meadville, Pa. Feed-water heater.....	326,203	Sept. 15	1318	370	32	1272
Cummings, Henry H., Malden, assignor of one-half to J. J. Sullivan, Ipswich, Mass. Eye-letting-machine.....	327,142	Sept. 29	2604	679 680	32	1519
Cummings, J. Raymond, assignor of one-third to J. P. Ellacott, Chicago, Ill. Stereotype-plate and securing it in printers' forms.....	325,324	Sept. 1	126	35	32	1039
Cummings, John. (See De Beaulieu, George, assignor.)						
Cummings, John R. (See Cummings, George W. and J. R.)						
Cummings, John R., assignor to American Press Association, Chicago, Ill. Printer's dash.....	329,369	Oct. 27	2536	653	33	482
Cummings, Rockwood, Palmetto, Ga. Post-hole digger.....	313,476	Mar. 10	613	159	30	899
Cummings, Uriah, Buffalo, N. Y. Hydraulic testing-machine.....	322,800	July 21	1892	495	32	355
Cummings, Uriah, Buffalo, N. Y. Ore-crusher.....	324,664	Aug. 18	1721	474	32	858
Cummings, Virgil T., Groveton, Tex. Device for jointing, gaging, and setting saws.....	317,442	May 5	702	177	31	659
Cummins, George W. (See Herr and Cummins.)						
Cummins, John R. (See Emerson, Fairies, and Cummins.)						
Cummins, John R., assignor of two-thirds to F. Emerson and J. J. Fairies, McKinney, Tex. Plow.....	325,239	Sept. 1	10	4	32	1017
Cummins, Patrick H., Amsterdam, N. Y. Sled.....	311,726	Feb. 3	343	95	30	413
Cunee, John, Vicksburg, Miss. Car-coupling.....	328,328	Oct. 13	1155	298	33	218
Cunning, James M., Haskins, Ohio. Tree-ladder.....	323,641	Aug. 4	342	97	32	586
Cunningham, Albert, Milwaukee, Wis. Oscillating engine.....	323,298	July 28	2568	687	32	493
Cunningham, Christopher. (See Graves, John, assignor.)						
Cunningham, David H., Elizabeth, N. J. Electric-lamp socket and switch.....	320,117	June 16	1574	415	31	1350
Cunningham, Hermon E., Philadelphia, Pa. Machine for inserting and clinching staples in shoes.....	333,284	Dec. 29	2985	768	33	1549
Cunningham, Hugh. (See Pratt, Charles E., assignor.)						
Cunningham, John, Hampton Junction, N. J. Nut-lock.....	325,397	Sept. 1	248	62	32	1062
Cunningham, Peter B., and A. Barnes, Allentown, Pa. Platform-gear for vehicles.....	331,688	Dec. 1	669	166	33	1116
Cunningham, Phoebe J., Amber, Iowa. Flower-stand.....	317,443	May 5	703	177	31	659
Cunningham, Richard W., et al. (See Hughes, James L., assignor.)						
Cunningham, Thomas A. (See Elliot and Cunningham.)						
Cunningham, Thomas C. (See Baker and Bestor, assignors.)						
Cunningham, Thomas C., et al. (See Baker, Charles H., assignor.)						
Cunningham, Thomas C., et al. (See Bestor, Francis L., assignor.)						
Cunningham, Winfield S., Springfield, Ohio. Sash-fastener.....	322,426	July 21	1367	357	32	265
Cuper, Camille D., Paris, France. Petticoat.....	319,960	June 16	1357	356	31	1311
Cupler, J. C. (See Pencille, Jethro E., assignor.)						
Curren, John W., and J. Kaino, Cuffey's Cove, Cal. Rotary harrow.....	323,299	July 28	2591	687	32	494
Curley, Patrick J., Boston, Mass. Hinge for scuttles, skylights, &c.....	324,668	Aug. 18	1315	357	32	733
Curley, Terence F., Brooklyn, N. Y. Nail-cleaner.....	315,869	Dec. 8	925	248	33	1171
Curlin, Seth, Covington, Tenn. Marine velocipede.....	315,743	Apr. 14	1067	280	31	200
Curlin, Seth, Covington, Tenn. Railway-switch.....	316,336	Apr. 21	1861	492 493	31	350
Curlin, Seth, Covington, Tenn., assignor to Curlin Switch and Crossing Company, of Kentucky. Automatic switch-signal.....	331,870	Dec. 8	926	239	33	1171
Curlin Switch and Crossing Company. (See Curlin, Seth, assignor.)						
Currey, Arthur L. (See Rice and Currey.)						
Currey, Edward C., assignor of one-half to A. W. Hager, Mitchell, Dak. Ter. Evenerspring for whiffletrees.....	319,961	June 16	1358	357	31	1312
Currie, Charles E., Butte, Mont. Ter. Car-brake.....	316,879	Apr. 28	2630	685	31	496
Currie, Neil A., Laurinburg, N. C. Fertilizer-distributor.....	312,334	Feb. 17	1201	329	30	587
Currie, Peter, Hull, Quebec, Canada. Car-coupling.....	316,607	Apr. 28	2536	589	31	425
Currie, Stanley C. C. (See Timmis and Currie.)						
Currier, Alfred, assignor of one-half to W. H. De Camp, Grand Rapids, Mich. Windmill.....	318,876	May 26	2614	694	31	1096
Currier, Henry A., Almont, Mich. Land-roller.....	313,813	Mar. 10	1052	270	30	981
Currier, William M., et al. (See Fuller, Solomon, assignor.)						
Currin, John, assignor to American Optical Company, Southbridge, Mass. Nose-guard for eyeglasses.....	324,540	Aug. 18	1543	426	32	824
Currin, John P. (See Repass and Currin.)						
Curry, Benjamin S., Manatee, Fla. Sash-fastener.....	314,918	Mar. 31	2561	677	30	1302
Curry, Burwell J., Huntsville, Ala. Cotton and hay press.....	311,816	Feb. 3	456	124	30	434
Curry, Burwell J., Huntsville, Ala. Planter and cultivator.....	327,434	Sept. 29	2988	781	32	1587
Curry, Burwell J., Huntsville, Ala. Hay or cotton press.....	327,435	Sept. 29	2990	781	32	1587
Curry, Burwell J., Huntsville, Ala. Portable hay-press.....	333,059	Dec. 22	2612	684	33	1426
Curry, George W., St. Louis, Mo. Caster.....	318,963	June 2	45	12	31	1057
Curry, John, Peoria, Ill. Low-pressure steam-boiler.....	330,300	Nov. 10	1169	311	33	737
Curry, Lewis M. (See Jordan and Curry.)						
Curry, Lewis M., assignor of one-half to O. F. Jordan, Jackson, Mich. Switch-stand.....	315,011	Apr. 7	35	7	31	6
Curtin, John, Marion, Va. Plating-board.....	316,012	Apr. 21	1437	375	31	273
Curtis, Benjamin F., Atlanta, Ga. Street-railway chair.....	312,259	Feb. 17	1094	302	30	567
Curtis, Charles. (See Seaver, Augustus, assignor.)						
Curtis, Charles R. S., Quincy, Ill. Fire-escape and elevator.....	320,854	June 23	2583	684	31	1545
Curtis, David W., assignor of two-thirds to O. S. Cornish and W. S. Greene, Fort Atkinson, Wis. Churn.....	321,486	July 7	105	28	32	91
Curtis, David W., assignor of two-thirds to O. S. Cornish and W. S. Greene, Fort Atkinson, Wis. Refrigerator-tank.....	329,626	Nov. 3	275	71	33	557
Curtis, Elias, Kansas City, Mo. Electric indicator for pool-tables.....	313,404	Mar. 3	511	134	30	872
Curtis, Elias, Kansas City, Mo. Electrical game-indicator for pool-tables.....	320,542	June 23	2190	578	31	1469
Curtis, Frank E. (See Maddock, John, assignor.)						
Curtis, George H. W., Brooklyn, N. Y. Sewing-machine.....	318,964	June 2	46	12	31	1057
Curtis, George W., Philadelphia, Pa. Car-coupling.....	327,534	Oct. 6	43	9	33	9
Curtis, George W., Philadelphia, and J. Wood, Jr., Conshohocken, assignors to Curtis & Wood Automatic Car Coupler Company, Philadelphia, Pa. Car-coupling.....	321,344	June 30	3219	856	31	1666
Curtis, George W., Philadelphia, Pa. A. G. Darwin, Glen Ridge, N. J., and C. C. Davis, Philadelphia, Pa.; said Darwin and Curtis assignors to said Davis, trustee. Car-coupling.....	327,661	Oct. 6	221	55	33	39
Curtis, Isaac, and L. J. Russell, assignors to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm.....	316,880	Apr. 28	2630	686	31	496
Curtis, John, North Dorset, Vt. Steam-engine.....	333,080	Dec. 22	2614	686	33	1486

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Curtis, John D. (See Lenox, Daniels, and Curtis.)						
Curtis, Richard, and W. H. Rhodes, Manchester, county of Lancaster, England. Roving-frame &c.	323,857	Aug. 4	609	171 172	32	638
Curtis, William L., Forest Grove, Oreg. Surveying-instrument.	313,657	Mar. 10	846	220	30	944
Curtis, William W., Stanberry, Mo. Earth-auger.	331,228	Nov. 24	2404	651	33	983
Curtis & Wood Automatic Car Coupler Company. (See Curtis and Wood, assignors.)						
Curtiss & Co., William B. (See Curtiss, William B., assignor.)						
Curtiss, Everett P., Hartford, Conn. Axle-box.	392,584	July 21	1590	419	32	304
Curtiss, Marshall S., Chicago, Ill. Reclining-chair.	332,237	Dec. 15	1468	383	33	1274
Curtiss, Robert M., Brooklyn, N. Y. Electrical safety device for elevators.	314,167	Mar. 17	1530	401	30	1079
Curtiss, Robert M., Brooklyn, N. Y. Safety device for elevators.	394,751	Aug. 18	1829	505 506	32	879
Curtiss, William B., assignor to W. B. Curtiss & Co., Danbury, Conn. Machine for bending and forming wire.	883,112	Dec. 29	2696	707 708	33	1506
Curtner, Paul H., Hazleton, and C. C. Genung, Evansville, Ind. Car-brake.	313,186	Mar. 3	294	55	30	819
Curtner, Paul H., Hazleton, and C. C. Genung, Evansville, Ind. Car-brake.	318,419	May 19	1992	536	31	907
Cushing, Frank A., New York, N. Y. Overflow-alarm for water-tanks.	313,658	Mar. 10	847	290	30	944
Cushing, George S., et al. (See Cushman, George F., assignor.)						
Cushing, George W., St. Paul, Minn. Arch for locomotive fire-boxes.	333,202	Dec. 29	2923	738	33	1529
Cushman, Abe L., Concord, N. H. Mechanical movement.	328,014	Oct. 13	662	174	33	127
Cushman, Charles W., Buffalo, N. Y. Carding railway freight-car.	316,597	Apr. 28	2134	569	31	406
Cushman, Charles W., Buffalo, N. Y. Label-holder for freight-cars.	318,602	May 26	2944	601	31	960
Cushman, Francis A., et al. (See Cushman, George F., assignor.)						
Cushman, George F., Barnet, Vt., assignor to himself, F. A. Cushman, Lebanon, N. H., A. C. Russell, and G. S. Cushing, Lowell, Mass. Making paper-pulp from wooden blocks.	329,370	Oct. 27	2537		33	482
Cushman, Holbrook, New York, N. Y., and J. P. Hall, Oldham, county of Lancaster, England. Dynamo-electric machine.	324,752	Aug. 18	1835	506	32	880
Cushwa, James A., Isle St. George, Ohio. Rein supporter and protector.	310,823	Jan. 20	923	252	30	126
Cusson, Joseph, assignor to S. Cusson, Bay City, and J. King, South Bay City, Mich. Salt-grainer.	315,390	Apr. 7	552	142	31	100
Cusson, Joseph, assignor to J. King and S. Cusson, Bay City, Mich. Attachment to salt-grainers.	321,345	June 30	3921	859	31	1669
Cusson, Samuel, et al. (See Cusson, Joseph, assignor.)						
Cussions, John, Glen Allen, Va. Calendar.	313,906	Mar. 17	1311	342	30	1037
Custer, George M., Terre Haute, Ind. Combined whip-socket and rein-holder.	311,876	Feb. 10	546	150	30	458
Cuthbert, William M., Pittsburg, Pa., assignor of one-half to W. C. Donn, Brooklyn, N. Y. Sewing-machine table.	324,753	Aug. 18	1838	507	32	880
Cuthbertson, John, Lowell, Mass. Spinning-machine.	326,900	Sept. 22	2285	597	32	1455
Cutler, Abner, Buffalo, N. Y. Desk-chair.	330,382	Nov. 17	1294	343	33	769
Cutler, Alexander M. (See Cutler, William P. and A. M.)						
Cutler, Alexander M., Bath, Me. Machine for slitting canvas and folding the edges thereof.	316,337	Apr. 21	1863	493	31	350
Cutler, E. Waldo, Boston, Mass. Sleeping-car.	316,013	Apr. 21	1438	375	31	274
Cutler, Henry, North Wilbraham, Mass. Grinding-mill.	328,656	Oct. 20	1581	395 396	33	291
Cutler, William P. and A. M., Bath, Me. Jib-furler.	311,964	Feb. 10	686	168	30	483
Cutton, Elisha B., assignor to Electrical and Mechanical Developing Company, Pittsburg, Pa. Electric-arc lamp.	394,305	Aug. 11	1227	334 335	32	750
Cutton, Elisha B., assignor to Electrical and Mechanical Developing Company, Pittsburg, Pa. Electric head-light.	327,143	Sept. 29	2409	680	32	1520
Cutter, Francis L., Brooklyn, N. Y. Holder for cards, &c.	316,948	May 5	22	6	31	527
Cutter, George, Boston, Mass. Combination-tool.	322,914	July 28	2041	538	32	394
Cutter, Martin A., Galveston, Tex. Street-car.	312,556	Feb. 17	1510	412	30	645
Cutter, Martin A., Galveston, Tex. Street-car.	323,450	Dec. 29	3151	894	33	1586
Cutter, Norman W., Cleveland, Ohio. Car-axle box.	330,822	Nov. 17	1852	499	33	874
Cutting, Lewis, San Francisco, Cal. Egg-turning device for incubators.	320,463	June 23	2090	551	31	1451
Cvetkovics, Mitar D., assignor of two-thirds to E. Horbaczewski and W. von Kopal, Vienna, Austria-Hungary. Weir and sluice.	331,038	Nov. 24	2129	577 578	33	924
D'Spain, Thomas C., Sherman, Tex. Pulverizer.	312,338	Feb. 17	1208	332	30	589
Dabba, Walter G. (See Painter, Frederick G., assignor.)						
Daboll, Austin P., New London, Conn. Friction-roller bushing or bearing.	310,259	Jan. 6	129	37	30	26
Dabus, John, Piqua, Ohio. Detachable heel-calk and hoof-pad.	329,627	Nov. 3	278	72	33	558
Daelen, Vital, Berlin, Germany. Machine for rolling metal cylinders.	323,281	July 28	2547	677 678	32	488
Daft, Leo, Greenville, N. J. Electric railway.	312,557	Feb. 17	1512	412	30	645
Daft, Leo, Greenville, N. J. Electric switch.	320,630	June 23	2310	610	31	1491
Daft, Leo, Greenville, N. J. Insulator for tracks.	320,631	June 23	2311	610	31	1491
Daft, Leo, Greenville, N. J. Electric conductor.	320,632	June 23	2312	610	31	1491
Daft, Leo, Greenville, N. J. Insulator for tracks.	320,633	June 23	2313	611	31	1492
Daft, Leo, Greenville, N. J. Electric switch.	322,915	July 28	2042	538 539	32	394
Daft, Leo, Greenville, N. J. Electric switch.	322,916	July 28	2043	539	32	394
Daft, Leo, Greenville, N. J. Electric locomotive-engine.	322,915	Sept. 8	924	233	32	1193
Dager, William B., assignor of two-thirds to J. and C. A. Leonard, Canton, Ohio. Sash-fastener.	327,144	Sept. 29	2611	681	32	1520
Dagggett, Henry S., Gypsum, Colo. Water-elevator.	324,235	Aug. 11	1133	308	32	741
Daguin, Eugene, Paris, France. Machine for stamping and obliterating postage-stamps.	319,962	June 16	1359	357	31	1312
Dahn, John, East Toledo, Ohio. Sprinkling-machine.	332,329	Dec. 15	1567	416	33	1296
Daigle, Marcellin, Houma, La. Bridge.	332,058	Dec. 8	1203	314	33	1232
Daignean, Jérémie, Lowell, Mass. Bark-press.	322,667	July 21	1714	454	32	328
Dalley, Albert A., Wilson, N. Y. Thill-coupling.	312,097	Feb. 10	862	226	30	516
Dalley, Albert A., Wilson, N. Y. Car-coupling.	317,316	May 5	527	134	31	620
Dalley, George F., Leadville, Colo. Air-pump.	321,008	June 30	2796	744	31	1590
Dalley, William H. (See Lord and Dalley.)						
Dalmier, Gottlieb, Cannstadt, Württemberg, Germany. Gas-engine.	313,922	Mar. 17	1220	318	30	1020
Dalmier, Gottlieb, Cannstadt, Württemberg, Germany. Gas-engine.	313,923	Mar. 17	1222	318	30	1020
Dain, Joseph, Jr., Kansas City, Mo. Vehicle-spring.	317,743	May 12	1092	286	31	730
Dainingerfeld, Henrietta H., Harrisonburg, Va. Adjustable and reversible foot-rest.	317,978	May 19	1413	379	31	800
Dale, George L., assignor to H. B. Dale, Minneapolis, Minn. Automatic egg-boiler.	328,110	Oct. 13	789	905	33	149
Dale, Harriette B. (See Dale, George L., assignor.)						
Dale, James W., assignor of one-third to G. B. McClelland, Du Bois, Pa. Saw-filing machine.	327,774	Oct. 6	350	90	33	61
Dale, Oliver S. (See Laco, John H., assignor.)						
Dalgarno, James, assignor of one-half to P. H. Griffin, Detroit, Mich. Device for molding propeller-wheels.	311,817	Feb. 3	457	194	30	435
Dalton, Charles and E. J., Oshkosh, Wis. Skate-roller.	328,111	Oct. 13	790	206	33	149

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Dalton, Edward F., assignor of one-half to W. F. Holroyd, Waterford, N. Y. Axle cutter and threader.....	311,647	Feb. 3	250	69	30	395
Dalton, Edward J. (See Dalton, Charles and E. J.)						
Dalton, John C. (See Stinebrink, George W., assignor.)						
Dalton, John R., Burkhardt, Wis. Neck-yoke adjuster.....	331,377	Dec. 1	170	43	33	1028
Dalton, Milton A., Cincinnati, Ohio. Permutation-lock.....	329,920	Nov. 3	531	136 137	33	605
Dalton, Thomas, Sr., et al. (See Okey, Joseph B., assignor.)						
Dalton, William D., assignor of two-thirds to J. M. Cole, Ludlow, Ky., and T. H. Foules, Cincinnati, Ohio. Track-gage.....	311,418	Jan. 27	1696	462	30	332
Daly, John, New York, assignor to W. White, White Plains, N. Y. Railway-crossing.....	322,841	July 21	1863	495	32	356
Daly, Samuel, assignor of one-half to W. O. Towle, Metropolis City, Ill. Brick-machine.....	330,002	Nov. 10	787	201 202	33	658
Dalzell, Allan C., Newport, Ky. Apparatus for making cores for watch-crowns.....	329,284	Oct. 27	2406	622 623	33	459
Dalzell, Allan C., Newport, Ky. Apparatus for corrugating cores for watch-crowns.....	329,285	Oct. 27	2402	623	33	460
Dalzell, Allan C., Newport, Ky. Apparatus for making pinions.....	329,286	Oct. 27	2403	623	33	460
Dalzell, Robert, Waddington, N. Y. Rock-drilling and tunneling machine.....	332,592	Dec. 15	1961	514	33	1360
Dalzell, Robert H., et al. (See Schmitz, Ernst, assignor.)						
Dammann, Rudolph, Augusta, Mo. Hair-restorative.....	321,487	July 7	106		32	21
Dane, William, Woonsocket, R. I. Shaft-lubricator.....	312,822	Feb. 24	1259	510	30	717
Damm, Fred C., assignor to Peoria Target Company, Peoria, Ill. Ball-trap.....	317,521	May 12	806	207	31	677
Damm, Fredrick C., Peoria, Ill. Target-trap.....	328,569	Oct. 20	1391	362 363	33	268
Damm, Fredrick C., Peoria, Ill. Apparatus for manufacturing flying targets.....	328,570	Oct. 20	1393	363	33	269
Damon, George L., Boston, Mass. Locking and unlocking the doors of safes, &c.....	311,419	Jan. 27	1697	462	30	332
Damp, John, Ashland, Ohio. Grain separator and scourer.....	311,727	Feb. 3	344	95, 96	30	414
Dampy, Walter, and A. Leduc, Lillie, France. Instantaneous shutter for photography.....	330,775	Nov. 17	1792	483	33	863
Dana, William M., Ripon, Wis. Window-screen.....	329,287	Oct. 27	2405	623	33	460
Danaher, Michael, Buffalo, Ill. Corn-planter.....	328,764	Oct. 20	1651	431	33	316
Danby, George, Mount Holly, Ohio. Automatic cut-off valve gear.....	317,979	May 19	1413	379	31	800
Dancel, Christian, New York, N. Y. Machine for making heel-stiffeners.....	327,244	Sept. 29	2740	711	32	1544
Dancel, Christian, New York, N. Y., assignor to J. Cavanaugh, trustee. Machine for last- ing boots or shoes.....	312,335	Feb. 17	1202	329 330	30	587
Danforth, Ebenezer, Geneva, Ill. Felly for vehicle-wheels.....	332,593	Dec. 15	1963	514	33	1360
Danforth, George E. (See Reynolds and Danforth.)						
Danforth, George E., Boston, Mass. Fastening device for gloves, &c.....	331,946	Dec. 8	1041	270	33	1194
Dangler, David A., and E. H. Wackerman, Cleveland, Ohio; said Wackerman assignor to said Dangler. Vapor-burner.....	318,090	May 19	1560	418	31	826
Daniel, Thomas L., Jackson, Mich. Ink-ribbon annunciator for type-writing machines.....	332,791	Dec. 22	2243	501	33	1419
Daniel, Thomas R., Parkville, Mo. Car-coupling.....	325,398	Sept. 1	249	62	32	1062
Daniell, John S., Conyers, Ga. Cotton cleaner and feeder.....	312,192	Feb. 10	1004	273 274	30	542
Daniell, John S., Conyers, Ga. Cotton-planter.....	323,642	Aug. 4	343	97	32	586
Daniels, Fred H. (See Lenox, Daniels, and Curtix.)						
Daniels, George D., et al. (See Rumsey, Charles B., assignor.)						
Daniels, Louis. (See Hood, Benjamin L., assignor.)						
Daniels, Taylor E., Chicago, Ill. Chain mortising-machine.....	313,924	Mar. 17	1226	318 319	30	1020
Daniels, Thomas, Jr., New York, N. Y. Book-binder's gold-saving cleaning-box.....	325,916	Sept. 8	925	234	32	1143
Danielsen, William G., Richmond, Utah Ter. Sulky-plow.....	318,358	May 19	1916	517	31	892
Danks, John, and B. Barnes, Melbourne, Victoria, Australia. Tram-car motor.....	320,634	June 23	2314	611	31	1492
Danly, Jehiel W., Attica, N. Y. Clapboard-gage.....	324,011	Aug. 11	819	227	32	683
Dann, Jesse W. (See Shaw, Carille, and Dann.)						
Danner, Jacob, et al. (See Hardy, Leslie T., assignor.)						
Danner, John, Canton, Ohio. Folding table.....	317,097	May 5	220	56	31	563
Danner, William, and J. M. Billing, Canal Fulton, Ohio. Thill-coupling.....	312,823	Feb. 24	1860	510	30	717
Dannmeyer, Martin F. D. C., San Francisco, Cal. Wash-boiler.....	329,628	Nov. 3	279	72	33	558
Danz, Jacob, Jr., St. Paul, Minn. Decoy.....	311,877	Feb. 10	547	150	30	459
Darao, Dominique L., assignor of one-half to L. Keller, New York, N. Y. Ornamenting the surfaces of wood, &c.....	317,317	May 5	528	134	31	620
Darby, George W., Allegheny City, Pa. Operating car-brakes.....	315,012	Apr. 7	36	8	31	8
Darby, Joseph, Washington, D. C. Harrow.....	325,735	Sept. 8	703	175	32	1151
Darbyshire, B. Frank, et al. (See Brandt, Louis, assignor.)						
Dareus, James. (See Wallace and Dareus.)						
Dargan, John, et al. (See Lytle, Albert E., assignor.)						
Darling, Alphens, Petrolia, Pa. Governor for supplying gaseous fuel.....	328,468	Oct. 20	1256	326	33	244
Darling, Henry M. and R. F., Linwood, Ohio. Elevator.....	328,294	Oct. 13	1012	263	33	192
Darling, Joseph, Karns City, Pa. Faucet or valve.....	321,694	July 7	382	102	32	71
Darling, Robert F. (See Darling, Henry M. and R. F.)						
Darnell, David E., Masonville, assignor of one-half to H. W. Doughten, East Moorestown, N. J. Furrower, marker, and coverer.....	312,098	Feb. 10	863	236	30	517
Darozir, Levi, and N. Bonnet, Lynn, Mass. Device for tapping barrels.....	321,421	July 7	9	3	32	4
Darr, Emory Q., Shelbyville, Ind. End-gate for wagons.....	328,295	Oct. 13	1014	264	33	192
Darr, Emory Q., Shelbyville, Ind. Bridle-blind.....	328,657	Oct. 20	1525	396	33	292
Darr, Emory Q., Shelbyville, Ind. Bridle-bit.....	329,629	Nov. 3	220	72	33	558
Darrow, Samuel K., Poughkeepsie, N. Y. Combined fire-screen and desk.....	319,198	June 2	319	85	31	1107
Dart, Albert E., assignor of one-half to S. H. Tingley, Providence, R. I. Cut-off device for flexible tubes or hose.....	318,091	May 19	1561	418	31	826
Darwin, Asahel G. (See Curtis, Darwin, and Davis.)						
Dasso, Levi, Montpelier, Ohio. Elevator.....	323,919	Aug. 11	695	195	32	661
Dathis, Leon, Fils, Paris, France. Baker's oven.....	321,643	Aug. 4	344	98	32	586
Daub, Adolph, Milwaukee, Wis. Ventilator.....	332,059	Dec. 8	1205	314	33	1222
Danchy, L. Otis. (See Ross, Christian H., assignor.)						
Dandelin, Joseph M. T., Jefferson, Tex. Car-brake.....	322,585	July 21	1501	420	32	304
Dandt, George A., Jersey City, N. J. Pipe-coupling.....	320,635	June 23	2315	612	31	1492
Davenport, Frank W., Providence, R. I. Book-finishing machine.....	322,526	July 21	1510	397 398	32	291
Davenport, George. (See Davenport, Henry and G.)						
Davenport Glucose Manufacturing Company. (See Radenhansen, Paul, assignor.)						
Davenport, Henry and G., Somerville, Pa. Magic lantern.....	330,636	June 23	2317	612 179	31	1492
Davenport, Joseph D., Pawtucket, R. I. Adjustable staging-bracket.....	319,463	June 9	670	180	31	1181

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Davenport, William H., Uxbridge, Mass. Fire-arm.....	320,637	June 23	2317	612	31	1492
Davenport, William H., Uxbridge, Mass. Fire-arm.....	326,276	Sept. 15	1417	380	32	1290
Davenport, William H., and J. W. Day, Uxbridge, Mass. Cutter-head for rifling machines.....	315,130	Apr. 7	188	46	31	34
Daves, John F., near Tupelo, Miss. Combined agricultural implement.....	318,171	May 19	1664	446	31	846
Davey, Henry, Leeds, County of York, England. Low-pressure steam-motor.....	310,387	Jan. 6	301	83	30	58
Davey, Petherick, Philadelphia, Pa. Railway chair, tie, and break-joint.....	322,261	July 14	1147	299	32	218
Davey, Petherick, assignor of one-half to W. Cilla, Philadelphia, Pa. Convertible cot, chair, &c.....	323,354	July 14	1267	331	32	241
Davey, Petherick, assignor to A. Rex, Philadelphia, Pa. Railway tie and chair.....	329,821	Nov. 3	539	137	33	605
Davey, Windsor S., assignor of one-half to Monitor Works, Beloit, Wis. Twine-binder.....	326,204	Sept. 15	1319	342	32	1272
David, Auguste, San Francisco, Cal. Grape stemmer and crusher.....	320,049	June 16	1478	390	31	1333
David, Henry S., Oakland, Cal. Bent-lever scale.....	313,477	Mar. 10	613	159	30	899
Davidson, George. (See Schofield and Davidson.)						
Davidson, Henry, Brooklyn, N. Y. Folding square.....	318,877	May 26	2615	695	31	1026
Davidson, John M. (See Davis, David, assignor.)						
Davidson, John M., Bradford, Pa. Snicker-rod for deep wells.....	324,922	Aug. 25	2072	567	32	931
Davidson, Mordica A., Union, Mo. Draft-equalizer.....	314,319	Mar. 24	1732	461	30	1125
Davidson, Mordica A., and S. F. Sanders, Union, Mo. Car-coupling.....	315,131	Apr. 7	189	46	31	35
Davidson Rubber Company. (See Ware, Charles, assignor.)						
Davies, Benjamin, Adlington, and J. Eckersley, Blackrod, county of Lancaster, England. Apparatus for washing piece-goods.....	315,252	Apr. 7	381	94	31	69
Davies, Benjamin F., et al. (See Laskey, John H., assignor.)						
Davies, John E., Chicago, assignor of one-half to W. W. Fliun, Highland Park, Ill. Mold for casting.....	332,503	Dec. 15	1823	478	33	1337
Davies, John E., Chicago, assignor of one-half to W. W. Fliun, Highland Park, Ill. Mold for casting.....	332,504	Dec. 15	1825	479	33	1337
Davies, Joseph D., Natchez, Miss. Pump.....	315,485	Apr. 14	706	186 187	31	132
Davies, Joseph D., Natchez, Miss. Equalizer for duplex steam pumping-engines.....	327,535	Oct. 6	44	10	33	9
Davies, Thomas, Poughkeepsie, N. Y. Bottle-washer.....	327,071	Sept. 29	2505	654	32	1502
Davies, Thomas A., New York, N. Y. Securing fish-plates to railway-rails.....	320,638	June 23	2319	612	31	1493
Davies, Thomas A., New York, N. Y. Fastening fish-plates in railway-rail joints.....	320,639	June 23	2320	613	31	1493
Davies, Thomas A., New York, N. Y. Fulcrum metallic spring-washer for railway-rail joints.....	320,640	June 23	2321	613	31	1493
Davies, Thomas A., New York, N. Y. Fish-plate for railway-rail joints.....	320,641	June 23	2322	613	31	1493
Davies, Thomas A., New York, N. Y. Spike.....	330,567	Nov. 17	1529	409	33	812
Davies, Thomas A., New York, N. Y. Stay-plate for railway-rail spikes.....	330,568	Nov. 17	1530	409	33	812
Davies, Thomas A., New York, N. Y. Center fastening for railway-rails.....	330,569	Nov. 17	1531	409	33	812
Davies, Thomas A., New York, N. Y. Railway-rail spike.....	330,570	Nov. 17	1531	410	33	812
Davies, Walter D., Brooklyn, N. Y., assignor to Ansonia Clock Company, Ansonia, Conn. Alarm-clock.....	315,603	Apr. 14	873	229	31	162
Davies, Walter D., Brooklyn, N. Y., assignor to Ansonia Clock Company, Ansonia, Conn. Balance-wheel for watches.....	322,093	July 14	937	242	32	179
Davies, William E. B., Allegheny, Pa. Varnish.....	320,464	June 23	2091		31	1451
Davies, William J., and W. Penglaese, Stoneville, Mich. Railway-switch.....	326,406	Sept. 15	1584	412	32	1222
Davin, James J., Bradford, Pa. Die for making steel jars.....	311,648	Feb. 3	251	69	30	396
Davis, Adelbert S. (See Ball, Ansel, assignor.)						
Davis, Adelbert S., Seneca Falls, N. Y. Scroll-sawing machine.....	310,563	Jan. 13	519	142	30	105
Davis, Albert D., Colorado Springs, Colo. Tubular boiler. (Reissue).....	10,636	Aug. 18	1895	520	32	892
Davis, Albert T. L., assignor of one-half to W. H. Pepper, Lake Village, N. H. Knitting-machine.....	326,854	Sept. 22	2214	578 579 580	32	1443
Davis, Andrew J. (See Colwell and Davis.)						
Davis, Andrew J., Hartford, Mich. Combined sash-holder and weather-strip.....	310,564	Jan. 13	521	143	30	106
Davis, Arthur W. (See Davis, Robert W. and A. W.)						
Davis, Arthur W. S., assignor to F. Taylor, Lowell, Mass. Mechanical telephone.....	333,295	Dec. 29	2938	768	33	1550
Davis, Augustus E., Philadelphia, Pa. Combined weighing-scale and register.....	319,199	June 2	319	85	31	1107
Davis, Augustus C. L., Norfolk, Nebr. Sliding gage or dog.....	316,338	Apr. 21	1865	494	31	350
Davis, Aurin D. (See Hittle and Davis.)						
Davis, Benjamin F., Corsicana, Tex. Cantalever.....	311,064	Jan. 20	1188	326	30	233
Davis, Catherine A., administratrix. (See Davis, Job C.)						
Davis, Calvin R., assignor to Kimberlin Manufacturing Company, Indianapolis, Ind. Harrow attachment for cultivators.....	315,132	Apr. 7	190	47	31	35
Davis, Charles C. (See Curtis, Darwin, and Davis.)						
Davis, Charles R., Dallas, Tex. Bustle.....	314,566	Mar. 31	2071	553	30	1213
Davis, Charles R., Dallas, Tex. Bed-spring.....	318,092	May 19	1562	419	31	826
Davis, Charles R., Dallas, Tex. Bustle.....	321,544	July 7	239	63	32	46
Davis, Clayton N., assignor of one-half to Davis & Co., Fort Edward, N. Y. Shirt.....	318,546	May 26	2182	524	31	949
Davis, Clinton, Steelville, Ill. Splint.....	310,184	Jan. 6	35	10	30	9
Davis & Co. (See Davis, Clayton N., assignor.)						
Davis, Cornelius H., Philipaburg, Pa. Watch charm.....	327,245	Sept. 29	2741	711	32	1545
Davis, Daniel, Portland, Me. Toe-piece for edge-trimming machines.....	316,750	Apr. 28	2455	639	31	464
Davis, Daniel F., Easton, Pa. Fire-escape.....	325,399	Sept. 1	250	62	32	1062
Davis, Daniel J., et al. (See Komp, John F., assignor.)						
Davis, David, assignor of one-half to J. M. Davidson, Newburg, Ohio. Smoke-preventing furnace.....	317,522	May 12	807	207	31	678
Davis, David P., Jersey City, N. J., assignor to New York Safety Steam Power Company, New York, N. Y. Governor for engines.....	317,098	May 5	221	56	31	564
Davis, David W., and W. G. Latimer, Detroit, Mich. Beer-registering faucet.....	327,662	Oct. 6	224	55	33	39
Davis, David W., and W. G. Latimer, Detroit, Mich. Registering attachment for faucets.....	327,663	Oct. 6	224	55	33	40
Davis, Edward. (See Keyworth, Thomas, assignor.)						
Davis, Edward J., Rochester, N. Y. Box.....	313,814	Mar. 10	1053	270	30	981
Davis, Edwin S., Winona, Minn. Seat-fastener for vehicles.....	320,876	Nov. 24	1928	522	33	896
Davis, Elwin W., Geneva, Minn. Car-coupling.....	320,337	June 16	1892	497	31	1406
Davis, Eugene H. (See Scales, Christopher C., assignor.)						
Davis, Francis M. (See Cherney, Jacob, assignor.)						
Davis, Francis M. (See Cherney and Davis, assignors.)						
Davis, Francis M., Denver, Colo. Valve-gear.....	328,288	Oct. 27	2406	624	33	460
Davis, Frank I. (See Young and Davis.)						
Davis, Frank M., New York, N. Y. Fountain-syringe.....	331,039	Nov. 24	2130	578	33	934
Davis, Franklin T., Mount Vernon, N. Y. Check-hook for harness.....	331,040	Nov. 24	2131	578	33	935
Davis, Franklin T., Mount Vernon, N. Y. Sash-fastener.....	331,041	Nov. 24	2131	578	33	935

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Davis & Furber Machine Company. (See Baldwin, Eben A., assignor.)						
Davis, George, Ellsabeth, N. J. Feed-regulator for hemp drawing and spinning machines.	326,723	Sept. 22	9037	530	32	1411
Davis, George F. (See Huse, Sheehan, and Davis.)						
Davis, George N. (See Miller, Matthias, assignor.)						
Davis, Henry T., New York, N. Y. Quilting-frame for sewing-machines.	326,923	Oct. 27	1871	488	33	363
Davis, Henry T., London, England. Money receiving, registering, recording, and ticket-issuing device.	321,010	June 30	2799	744	31	1591
Davis, Henry T., assignor to Davis Quilting Frame Company, New York, N. Y. Quilting-attachment for sewing-machines.	321,009	June 30	2798	744	31	1591
Davis, Henry T., assignor to Davis Quilting Frame Company, New York, N. Y. Quilting-frame for sewing-machines.	322,262	July 14	1148	300	32	219
Davis, Hiram B., St. Paris, Ohio. Whiffletree-hook.	322,163	July 14	1033	268	32	196
Davis, Isaac, Perin's Mills, Ohio. Plow-fender.	322,924	Oct. 27	1872	489	33	363
Davis, James B., Washington, D. C. Boring device.	313,405	Mar. 3	512	134	30	872
Davis, James B., Washington, D. C. Breech-loading fire-arm.	315,253	Apr. 7	381	94	31	69
Davis, James B., Washington, D. C. Gas-check for ordnance.	318,003	May 19	1563	419	31	826
Davis, James E., Eureka Springs, Ark. Band-cutting feeder for thrashing-machines.	325,736	Sept. 8	704	176	32	1151
Davis, James E., Boston, Mass. Pop safety-valve.	323,794	Aug. 4	528	150	32	622
Davis, James E., Palmyra, assignor of one-half to T. C. Snyder, Canton, Ohio. Post-hole digger.	318,359	May 19	1917	517	31	883
Davis, James F., Marshall, Tex. Table.	328,015	Oct. 13	662	174	33	127
Davis, James P., and J. G. Robbins, Banner, Idaho Ter. Pick.	316,528	Apr. 28	9135	562	31	406
Davis, Job C., deceased; C. A. Davis, San Francisco, Cal., administratrix. Machine for making cigarette mouth-pieces.	324,923	Aug. 25	9073	567 568	32	931
Davis, John. (See Simpson and Davis.)						
Davis, John, Allegheny, Pa. Apparatus for tanning hides.	313,478	Mar. 10	614	159	30	960
Davis, John, Allegheny, Pa. Hook.	314,168	Mar. 17	1537	402	30	1078
Davis, John, Charleston, S. C. Press-box for extracting oil from seed.	327,664	Oct. 6	226	55	33	40
Davis, John, Charleston, S. C. Device for extracting and refining crude oil.	328,925	Oct. 27	1874	499	33	364
Davis, John H., and W. Walker, Jermyn, Pa. Air-injector for furnaces and forges.	323,644	Aug. 4	345	98	32	586
Davis, John C. (See Gray, Edward J., assignor.)						
Davis, John H., Covington, Ky. Roller-skate.	328,198	Oct. 13	896	233	33	170
Davis, John P., Rockford, assignor to R. Harvey, D. P. Greenlee, and H. List, Belvidere, Ill. Hay-carrier.	323,858	Aug. 4	611	172	32	638
Davis, John P. T., New Trenton, Ind. Extension-ladder and fire-escape.	312,979	Feb. 24	2056	561	30	732
Davis, John R., Bristol, Wis. Whiffletree-hook.	322,527	July 21	1512	398	32	291
Davis, John R., Bristol, Wis. Clevis.	331,284	Dec. 1	42	9	33	1007
Davis, John S. (See Troy and Davis.)						
Davis, John S., Toledo, Ohio. Mechanism for actuating grain-binders.	311,420	Jan. 27	1700	463	30	332
Davis, John S., Toledo, Ohio. Grain-binding harvester.	312,824	Feb. 24	1861	510 511	30	717
Davis, John S., assignor to Toledo Mower and Reaper Company, Toledo, Ohio. Band-securing mechanism for grain-binders.	319,963	June 16	1361	358	31	1312
Davis, John T., New York, N. Y. Vacuum-pump.	328,469	Oct. 20	1258	327	33	945
Davis, Joseph A., New York, N. Y. Refrigerator.	322,043	July 14	872	226 227 228	32	167
Davis, Joseph I., Mount Hamill, Iowa. Hay raker and loader.	322,658	Oct. 20	1526	396 397	33	222
Davis, Joseph M., et al. (See Field, Edwin S., assignor.)						
Davis, Joseph P., New York, N. Y. Telephone-exchange system.	331,186	Nov. 24	2340	633 634	33	972
Davis, Lorenzo V., et al. (See Slater, Warren G., assignor.)						
Davis, Lucien C., Colorado Springs, Colo. Safety device for main-springs.	331,774	Dec. 8	793	201	33	1147
Davis, Luther M., Walla Walla, Wash. Ter. Gas-mixer for inhalers.	312,435	Feb. 17	1356	368	30	613
Davis, Mark, and T. W. G. Cook, New York, N. Y. Hat-ironing machine.	322,263	July 14	1149	300	32	218
Davis, Mary J., administratrix. (See Davis, Merwin.)						
Davis, Merwin, deceased. (M. J. Davis, administratrix,) assignor of one-eighth to J. W. Peckett, Brooklyn, N. Y. Printing-machine.	323,024	July 28	2199	582 583	32	423
Davis, Nathaniel S., Brockport, N. Y. Joint for rafters.	332,060	Dec. 8	1206	315	33	1223
Davis, Quilting Frame Company. (See Davis, Henry T., assignor.)						
Davis, Rees O., Milan, Mo. Hay-ricking device.	317,744	May 12	1093	286	31	730
Davis, Richard I., Sandusky, Tex. Gate.	313,855	Mar. 17	1118	220	30	1002
Davis, Riley L., assignor of one-half to J. F. McLean, Mooresville, N. C. Car-transfer apparatus.	318,260	May 19	1918	517 518	31	893
Davis, Robert W., assignor to Carbonate Mining Company, Elmira, N. Y. Mixed paint.	324,236	Aug. 11	1134	.....	32	741
Davis, Robert W. and A. W. Elmira, assignors to S. Sweet, Danaville, N. Y. Roller spring-tooth harrow and cultivator.	329,371	Oct. 27	2538	654	33	223
Davis, Samuel. (See Gerhardt, John, assignor.)						
Davis Sewing Machine Company. (See Carlisle, William S., assignor.)						
Davis, Sylvester B., Eureka, Cal. Horse-collar.	331,871	Dec. 8	927	239	33	1171
Davis, Theodore D., Williamsport, Pa. Knob attachment.	327,326	Sept. 29	2930	764 765	32	1576
Davis, Theodore D., Williamsport, Pa. Car-coupling.	327,387	Sept. 29	2931	765	32	1576
Davis, Theodore D., Williamsport, Pa. Skate.	332,861	Dec. 22	2369	626	33	1441
Davis, Thomas. (See Hunter, Robert, assignor.)						
Davis, Wilbur G., Cambridge, assignor of one-half to W. M. Hinman, Boston, Mass. Pneumatic cash-carrier.	333,118	Dec. 29	2700	708	32	1507
Davis, Wilbur G., and W. M. Hinman, Boston, Mass. Pneumatic cash-carrier.	333,897	Dec. 29	3061	804	32	1575
Davis, William A., New Orleans, La. Cartridge implement.	317,318	May 5	531	135	31	621
Davis, William C. (See Cherney and Davis.)						
Davis, William E., Jersey City, N. J. Electro-magnet for signals.	327,536	Oct. 6	46	10	33	10
Davis, William F., assignor of one-half to F. L. Burden, Attleborough, Mass. Attachment for articles of furniture.	325,737	Sept. 8	706	176	32	1152
Davis, William J. (See Chambers and Davis.)						
Davis, William, and W. Casey, Southington, Conn. Square-headed bolt.	330,962	Nov. 24	2045	553	33	918
Davis, Winfield S. (See Sell and Davis.)						
Davis, Zebulon, Canton, Ohio. Vapor-stove.	311,459	Jan. 27	1745	475	30	341
Davis, Zebulon, Canton, Ohio. Vapor-burner.	311,818	Feb. 3	458	125	30	435
Davis, Zebulon, Canton, Ohio. Vapor-stove.	313,925	Mar. 17	1228	318 320	30	1621
Davis, Zebulon, Cleveland, Ohio. Oil-stove.	316,751	Apr. 28	2456	639	31	464
Davis, Zebulon, Cleveland, Ohio. Vapor-burner stove.	323,120	July 28	2330	618	32	448
Davis, Zebulon, assignor to Standard Lighting Company, Canton, Ohio. Tinner's and plumber's furnace.	312,925	Feb. 24	1864	511	30	718

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Davis, Zebulon, assignor to Standard Lighting Company, Cleveland, Ohio. Vapor-burner stove	325,592	Sept. 1	499	{ 124 125 }	32	1110
Davison, Charles B., Ann Arbor, Mich. Boiler-furnace	329,539	Nov. 3	163	43	33	536
Davison, Frank G., assignor to L. E. Waterman, Brooklyn, N. Y. Pocket pen and pencil holder	317,319	May 5	532	135	31	621
Davison, Frank G., Jamaica, assignor to A. L. Shipman's Sons, New York, N. Y. Holder for pens and pencils	325,060	Aug. 25	2259	620	32	966
Davison, John S., Cranbury, N. J. Cover for chamber-vessels	329,441	Nov. 3	90	6	33	508
Davison, William, Hoboken, N. J. Elliptic spring	314,919	Mar. 31	2562	678	30	1302
Davol Rubber Company. (See Sutton, Benjamin F., assignor.)						
Davy, Alfred, Sheffield, county of York, England. Apparatus for making steel	333,286	Dec. 29	2989	768	33	1550
Davy, Charles, Sheffield, county of York, England. Hydraulic forging-machine	332,594	Dec. 15	1964	{ 514 515 }	33	1361
Davy, John W., Kingston, Ontario, Canada. Fence-post	318,361	May 19	1919	518	31	893
Dawes, Alfred, Boston, Mass. Machine for grinding metal surfaces	320,289	Oct. 27	2407	{ 125 126 }	33	461
Dawes, Charles K., assignor of one-half to T. H. Dibble, Trenton, N. J. Planing and slotting machine	325,061	Aug. 25	2260	{ 630 631 }	32	966
Dawes, Joseph M., Owego, N. Y. Skid	328,571	Oct. 20	1395	363	33	269
Dawley, William H., St. Louis, Mo. Harmonica-holder	322,586	July 21	1592	420	32	305
Dawson, Artemas L., assignor of one-half to C. H. Freeman, Elk Point, Dak. Ter. Lamp collar	315,744	Apr. 14	1068	{ 280 281 282 }	31	201
Dawson, Artemas L., assignor of two-thirds to C. H. Freeman, Elk Point, Dak. Ter., and G. Bohner, Chicago, Ill. Machine for attaching metal collars to lamps	315,745	Apr. 14	1070	{ 281 282 }	31	201
Dawson, Belvidere C., Bloomington, Ill. Ironing-table	332,140	Dec. 8	1335	345	33	1244
Dawson, Benjamin, Leonardtown, Md. Pen for live stock	327,865	Oct. 6	226	56	33	40
Dawson, Frank, Sr., Williamsport, Pa. Harrow	325,917	Sept. 8	926	324	32	1194
Dawson, Frank, Sr., and Frank, Jr., Williamsport, Pa. Car-starter	314,519	Mar. 24	2006	535	30	1174
Dawson, George A., assignor to Hercules Manufacturing Company, Cardington, Ohio. Grain-scourer	313,712	Mar. 10	911	237	30	956
Dawson, George B., O'Neill, Neb. Milk-cooler	322,044	July 14	874	227	32	167
Dawson, Walter. (See Thatcher, Thomas, assignor.)						
Dawson, William. (See Frost and Dawson.)						
Dawson, William G., Chicago, Ill. Device for converting reciprocating into rotary motion	320,338	June 16	1893	498	31	1406
Dawson, William M. (See Longcor and Dawson.)						
Dax, Johann, Cologne, Germanv. Pyrotechnic signal-torch	329,442	Nov. 3	21	5	33	508
Daxon, Samuel R., Perryton, Ill. Machine for measuring and elevating grain	320,465	June 23	2091	551	31	1451
Day, Albion L., Urbana, Ohio. Oil-can	311,965	Feb. 10	687	188	30	483
Day, Austin G., New York, N. Y. Making the compound termed "Kerite"	322,802	July 21	1864	.....	32	356
Day, Austin G., New York, N. Y. Vulcanized product termed "Kerite"	322,803	July 21	1866	.....	32	356
Day, Austin G., New York, N. Y. Manufacturing crude kerite compounds	322,804	July 21	1868	.....	32	356
Day, Austin G., New York, N. Y. Vulcanizable compound or crude kerite	322,805	July 21	1869	.....	32	356
Day, Charles S., Waverly, Md. Mill for hulling corn	313,997	Mar. 17	1312	242	30	1038
Day, Florence P., assignor to himself and T. M. Van Court, Omaha, Nebr. Car-signal	312,099	Feb. 10	864	326	30	517
Day, Frank C., Scranton, Pa. Vehicle-brake	312,436	Feb. 17	1337	368	30	613
Day, George F., Shubenacadie, Nova Scotia, Canada. Churn	329,443	Nov. 3	21	6	33	508
Day, George W., Haverhill, Mass. Inner sole for boots or shoes	315,254	Apr. 7	382	95	31	69
Day, George W., Haverhill, Mass. Manufacture of boots or shoes	325,240	Sept. 1	11	4	32	1017
Day, George W., Haverhill, Mass. Boot or shoe	329,630	Nov. 3	281	73	33	558
Day, Hiram T., Fullerton, Ill. Flood-gate	312,437	Feb. 17	1338	369	30	613
Day, Joseph M. (See Cochrane and Day.)						
Day, Joseph W. (See Davenport and Day.)						
Day, Luther, Haverhill, Mass. Machine-sewed boot or shoe	318,878	May 26	2616	695	31	1027
Day, Lyman H., New York, N. Y. Hoop-skirt	322,806	July 21	1870	496	32	356
Day, Moses H., Roxbury, Mass. Preparation, manufacture, and treating of yarn, hemp, and other materials employed in the manufacture of cordage	320,763	June 23	2470	.....	31	1524
Day, Philemon R., et al. (See Coultau, Joseph A., assignor.)						
Day, William, Buffalo, N. Y. Needle-threader	328,296	Oct. 13	1015	264	33	192
Dayhoff, Martin, Volcano, W. Va. Packing for oil-well tubing	321,488	July 7	106	29	32	21
Dayton, Charles A., Rochester, N. H. Warp-beam for looms	328,297	Oct. 13	1016	264	33	192
Dayton Manufacturing Company. (See Kirby, John, Jr., assignor.)						
Dayton, Melville E., et al. (See Wallace, J. Bennett, assignor.)						
De Arguibel, Mannel C., Buenos Ayres, Argentine Republic. Rifling fire-arms	315,746	Apr. 14	1076	282	31	202
De Arnon, Thomas. (See Callahan and De Armon.)						
De Bange, Charles T. M. V., Paris, France. Gun-carriage	331,618	Dec. 1	567	138	33	1096
De Bassecourt, Soethène. (See Thury and De Bassecourt.)						
De Baun, Cornelius S. (See Higinson and De Baun.)						
De Bay, Hector, and C. De Rossetti, Cairo, Egypt. Apparatus for burning volatilizable hydrocarbons	317,444	May 5	704	177	31	650
De Beaulieu, George, assignor of one-half to J. Cummings, Toledo, Ohio. Automatic car-coupling	319,200	June 2	321	85	31	1108
De Beaumont, Alexandre, Philadelphia, Pa. Sewing-machine attachment for stitching buttons to fabrics	328,298	Oct. 13	1017	264	33	193
De Blanc, Peter G., New Iberia, La. Circular sawing machine	316,752	Apr. 28	2457	639	31	464
De Bourbon d'Este Paleologus Gonzaga, Ann and C., 18 Elgin Road, St. Peter's Park, county of Middlesex, England. Applying wood veneer	331,232	Nov. 24	2408	.....	33	984
De Bourbon d'Este Paleologus Gonzaga, Charles. (See De Bourbon d'Este Paleologus Gonzaga, Ann and C.)						
De Brugnac, Albert D., Versailles, France. Screw-propeller	329,822	Nov. 3	539	{ 137 138 }	33	605
De Camp, W. H. (See Currier, Alfred, assignor.)						
De Cernea, Albert, et al. (See Trigo, A. Homer, assignor.)						
De Dion, Albert, G. Bouton, and C. Trépardoux, Luteaux, Seine, France. Feeding water to boilers	329,732	Nov. 3	400	102	33	581
De Ferranti, Sebastian Z., West Kensington, county of Middlesex, England. Spectacle-frame	327,145	Sept. 29	2612	681	32	1520
De Forest, Charles T., New York, N. Y. Buckle	315,486	Apr. 14	708	187	31	132
De Forest, Frank, Bonne Terre, Mo. Drill-chuck	322,807	July 21	1872	496	32	356
De Golyer, Watts. (See Fuller, David S., assignor.)						
De Grandagnage, Pascal. (See Clarembaux, Augustin, assignor.)						
De Grange, George E., and W. G. Green, New Orleans, La. Car-axle box	318,879	May 26	2617	695	31	1027
De Guerre, Frank H., and W. W. De Lano, San Francisco, Cal. Stove-grate	315,255	Apr. 7	383	95	31	70
De Gunzburg, Ury, and J. Toherniac, Paris, France. Apparatus for making sulphocyanides	319,239	June 2	371	98, 99	31	1117
De la Jeannière, Dominique C., Paris, France. Automatic safety-brake for elevators and hoists	311,649	Feb. 3	251	70	30	396

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De La Matyr, Elias B., Chicago, Ill. Petroleum-burner.....	316,950	May 5	26	8	31	528
De La Matyr, Elias B., Cleveland, Ohio. Petroleum-burner.....	330,212	Nov. 10	1059	276 277	33	715
De La Vega, Miguel, New York, assignor of one-half to J. M. Cox, Brooklyn, N. Y. Manu- facture of sugar.....	330,098	Nov. 10	918		33	686
De la Vergne, Cornelius B., Jr., Glen Ridge, N. J. Oil-tank.....	329,026	Oct. 27	2036	528	33	393
De la Vergne Refrigerating Machine Company. (See Block, Louis, assignor.)						
De la Vergne Refrigerating Machine Company. (See Wainwright, Ellis, assignor.)						
De Laflame, Nelson K., Plattsburg, N. Y. Potato-digger.....	316,949	May 5	23	7	31	587
De Lamater & Co., C. H. (See Rathbun, John H., assignor.)						
De Lamater, Cornelius H., et al. (See Rathbun, John H., assignor.)						
De Lamater, Cornelius H., et al. (See Reynolds and Rider, assignors.)						
De Lamater, Cornelius H., et al. (See Rider, Thomas J., assignor.)						
De Lamater, William, et al. (See Rathbun, John H., assignor.)						
De Lamater, William, et al. (See Reynolds and Rider, assignors.)						
De Lamater, William, et al. (See Rider, Thomas J., assignor.)						
De Land, George W., North Brookfield, Mass. Knife-gage for heel trimming machines.....	319,465	June 9	672	180	31	1182
De Lano, Willie W. (See De Guerre and De Lano.)						
De Lanoy, Harry, Hastings-on-the-Hudson, N. Y. Mail-bag catcher.....	316,339	Apr. 21	1866	494	31	351
De Lanoy, Harry, Hastings-on-the-Hudson, N. Y. Mail-bag catcher.....	316,340	Apr. 21	1867	494	31	351
De Laval, Gustaf, Stockholm, Sweden. Device for lubricating bearings.....	311,966	Feb. 10	627	188	30	483
De Ledochowski, Zenone N., assignor of one-half to E. L. Zimmermann, La Salle, Ill. Car- pet-cleaner.....	338,199	Oct. 13	898	233	33	170
De Loch-Lahye, Léon, London, county of Middlesex, England. Telephone.....	315,421	Apr. 7	605	156	31	109
De los Rios, Alonso C., New Orleans, La. Filter.....	312,187	Feb. 10	992	272	30	541
De Mauler, Joseph A., Paris, France. Chemical fire-extinguisher.....	322,587	July 21	1593	420	32	305
De Mier, John R., Chester, Ill. Electric signal for railway-cars.....	331,042	Nov. 24	2132	579	33	935
De Mill, Peter E., Jr., Detroit, Mich. Apparatus for making water-gas.....	329,290	Oct. 27	2409	625	33	461
De Mill, Peter E., Jr., Detroit, Mich. Device for holding writing-paper.....	329,291	Oct. 27	2411	625	33	461
De Motte, Thomas H., Eureka, Ill. Cooling and embalming table.....	310,284	Jan. 20	923	252	30	186
De Pew, John F., Denver, Colo. Fluid-pressure regulator.....	332,645	Dec. 15	2038	535	33	1374
De Planque, Edward, Hoboken, N. J. Artist's panel or plaque.....	319,203	June 2	324	86	31	1102
De Planque, Edward, Hoboken, N. J. Plaque or panel.....	319,620	June 9	957	254	31	1234
De Puy, Anson A., San Francisco, Cal. Food compound.....	311,775	Dec. 8	794		33	1147
De Puy, Clarence E., Jackson, Mich. Carpet-fastener.....	319,204	June 2	324	86	31	1102
De Rossetti, Charles. (See De Bay and De Rossetti.)						
De Roux, Louis, Begles, near Bordeaux, France. Producing photo-mechanical printing- plates.....	322,046	July 14	875		32	168
De St. Aubin, August, Concordia, Kan. Horizontal windmill.....	311,177	Jan. 27	1353	371	30	270
De Susini, Joseph, New York, N. Y. Tobacco-pulp.....	318,881	May 26	2619		31	1027
De Susini, Joseph, New York, N. Y. Manufacture of cigarette-wrappers, &c.....	328,300	Oct. 13	1021		33	193
De Vallin, William H., San Rafael, Cal. Variable crank or eccentric.....	312,709	Feb. 24	1707	469	30	690
De Valin, William H., San Rafael, Cal. Single-acting pump.....	326,409	Sept. 15	1586	413	32	1323
De Vaux, Charles L. A., et al. (See Vogel, John B., assignor.)						
De Vézér, R. Onfroy. (See Martin, Abel J., assignor.)						
De Vooght, Francis, Antwerp, Belgium. Cable railway and tramway.....	310,991	Jan. 20	1080	294 295 296	30	213
De Walt, George, Kenton, Ohio. Barbed fence.....	312,440	Feb. 17	1341	369	30	614
De Witt, Charles H., Weatherly, Pa. Steam-muffler.....	310,654	Jan. 13	632	174	30	136
De Witt, Charles H., Weatherly, Pa. Gage-cock.....	326,022	Sept. 8	1063	270	32	1218
De Witt, Charles H., Weatherly, Pa. Pop-valve and muffler.....	328,240	Oct. 20	1748	455	33	334
De Wolf, Orin B. (See Smith and Heck, assignors.)						
Deal, Wallace L., Chicago, Ill. Wash-basin and trap.....	331,947	Dec. 8	1042	270	33	1195
Deal, Josiah J., Wilmet, assignor to E. Ross and J. L. Parks, Toledo, Ohio. Fabric-turf- ing implement.....	330,301	Nov. 10	1171	312	33	737
Dealy, Paul K., Brandon, Manitoba, Canada. Game.....	310,398	Jan. 6	302	83	30	58
Dean, John H., Bluffton, Ind. Drag-saw.....	317,745	May 12	1093	287	31	730
Dean Bros. Steam Pump Works. (See Dean, John C., assignor.)						
Dean, Charles D., et al. (See Sherwood, James H., assignor.)						
Dean, Charles W., South Wareham, assignor of one-half to E. Robinson, Wareham, Mass. Flat-wire nail.....	332,702	Dec. 22	2132	562	33	1397
Dean, Chester F., assignor, by mesne assignments, to himself and H. S. Calderwood, St. Johnsbury, Vt. Pruning implement.....	314,230	Mar. 24	1613	426	30	1102
Dean, Frank, Wahoo, Nebr. Stack-cover.....	322,045	July 14	874	227	32	167
Dean, Henry W., Boston, Mass. Lasting-machine.....	319,797	June 9	1120	297	31	1302
Dean, John A., Worcester, Mass., assignor of one-half to C. Richardson, Newark, N. J. Saw-tooth.....	330,680	Nov. 17	1666	448	33	840
Dean, John C., Indianapolis, Ind. Hand-truck.....	321,695	July 7	383	102	32	72
Dean, John C., assignor to Dean Bros. Steam Pump Works, Indianapolis, Ind. Valve-gear for direct-acting steam-pumps.....	320,764	June 23	2471	654	31	1524
Dean, John R., Westminster, England. Boot.....	310,389	Jan. 6	303	83, 84	30	59
Dean, Richard, assignor to J. B. Meriam, Cleveland, Ohio. Process of and apparatus for the fractional distillation of petroleum.....	310,497	Jan. 6	425	117	30	82
Dean, Richard, assignor of one-half to J. Quarrie, Cleveland, Ohio. Apparatus for the dis- tillation of hydrocarbons.....	314,368	Mar. 24	1800	479	30	1138
Dean, Samuel, North Ogden, Utah Ter. Fruit-drier.....	332,595	Dec. 15	1968	515	33	1361
Dean, Thomas F., Boston, assignor to S. W. Chamberlin, Sonerville, Mass. Device for joints in cooking utensils.....	315,917	Apr. 14	1311	341	31	243
Dean, William W. (See Ramel and Dean.)						
Deane, Charles H., Hopeton, assignor to H. C. Shaw, Stockton, Cal. Header.....	319,075	June 2	178	47	31	1081
Deane, Charles P., Springfield, Mass. Construction of coverings or housings for the steam- cylinders of pumping-engines.....	313,479	Mar. 10	616	160	30	900
Deane, Royal E., New York, N. Y. Steaming-table.....	310,185	Jan. 6	36	10	30	9
Deane, Royal E., New York, N. Y. Steam-cooking apparatus.....	329,024	Oct. 27	2034	528	33	392
Dearborn, Wyman, Boston, assignor to F. R. Hall, Brookline, Mass. Picker-feed cotton- gin.....	319,964	June 16	1365	358	31	1313
Dearden, John R., Saxonville, Mass. Machinery for drying skeins of yarn.....	328,470	Oct. 20	1259	327	33	245
Dearden, Walter, Trinidad, Colo. Filter.....	316,124	Apr. 21	1597	417	31	302
Deardorff, Jesse S., Canal Dover, Ohio. Hot-air generator for fire-places.....	313,998	Mar. 17	1313	343	30	1038
Deard, Charles F., East Sangerville, Me. Floor-clamp.....	319,464	June 9	671	180	31	1182
Death, Daniel. (See Snook and Death.)						
Deavenport, James M. (See Deavenport, Thomas T. and J. M.)						
Deavenport, Thomas T. and J. M., Okolona, Miss. Car-coupling.....	316,446	Apr. 28	2038	534	31	387

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Deava, Charles, assignor to Archer & Pancoast Manufacturing Company, New York, N. Y. Combined gas and electric light fixture	318,547	May 26	2184	585	31	949
Deben, Julius C., Mount Vernon, Ohio. Reversing-gear for engines	313,579	Mar. 10	737	194	30	924
Deblieux, Benjamin N., Bay St. Louis, Miss. Telegraph-insulator	332,061	Dec. 8	1207	315	33	1223
Deckard, Stephen J., assignor of one-half to J. J. Puterbaugh, Logansport, Ind. Pendulum-level	328,881	Oct. 30	1800	469	33	343
Decker, Alexander C., assignor of one-half to J. and P. Ayres, Keokuk, Iowa. Curry-comb	333,451	Dec. 29	3154	895	33	1586
Decker, Cornelius, Pullman, Ill. Car-axle box	325,593	Sept. 1	500	125	32	1111
Decker, Cornelius, and A. Trombly, Pullman, Ill. Car-axle	320,855	June 23	2585	624	31	1545
Decker, John, Nashville, Tenn. Graining-machine	312,260	Feb. 17	1095	302	30	567
Decker, John J., New York, N. Y. Music-rack for upright pianos	323,242	July 28	2550	679	32	468
Decker, Theodore, Charlottesville, Ind. Nut-lock	326,407	Sept. 15	1585	412	32	1323
Decker, Wilhelm, Mittweida, Saxony, Germany. Machine for grinding wire cards	321,088	June 30	2908	773	31	1610
Deckman, Charles J. (See Deckman, George and C. J.)						
Deckman, George and C. J., Malvern, Ohio. Apparatus for drying painted articles	315,604	Apr. 14	875	230	31	162
Deerow, Anson W., Bangor, Me. Grate for burning anthracite coal	321,585	July 7	240	64	32	47
Dederick, Ezra, Milwaukee, Wis. Car-compler	329,025	Oct. 27	2035	528	33	392
Dederick, Peter K., Loudonville, N. Y. Baling-press	324,924	Aug. 25	2078	568	32	932
Dederick, Peter K., Loudonville, N. Y. Baling-press	330,877	Nov. 24	1928	523	33	896
Deemar, Henry V., St. Charles, Mo. Rubber heel	313,291	Mar. 3	368	91	30	843
Deere & Company. (See Moore, Gilpin, assignor.)						
Deere & Mansur Company <i>et al.</i> (See Runstetter, Michael and A., assignors.)						
Deering, John R., assignor to himself and J. M. Bickel, Emporia, Mo. Valve-gear	321,195	June 30	3041	805	31	1634
Deering, Mark L., Cleveland, Ohio. Beer-faucet and air-pump combined	326,492	Sept. 15	1673	437	32	1339
Deering, Michael, assignor to C. C. Bradley, Syracuse, N. Y. Power-hammer	312,226	Feb. 24	1866	511	30	718
Deering, William. (See Fecher and Olin, assignors.)						
Deering, William. (See Jackman, Joseph O., assignor.)						
Deering, William. (See Mouck, Andrew B., assignor.)						
Deering, William. (See Noyes, La Verne W., assignor.)						
Deering, William. (See Noyes and Perry, assignors.)						
Deering, William. (See Olin, William F., assignor.)						
Deering, William. (See Randall and Snow, assignors.)						
Deering, William, Louisville, Ky. Cotton-gin	318,362	May 19	1920	518	31	894
Dees, John T., Goldsborough, N. C. Swing	323,131	July 28	2332	618	32	448
Dees, Mark A., Scranton, Miss. Traction-increaser for locomotives	323,293	July 28	2351	679	32	483
Deffensmith, Phillip, Hamden, Conn. Machine for making clip-yokes	323,284	July 28	2552	679	32	489
Dehler, Frank, Denver, Colo. Saddle-horn	329,540	Nov. 3	165	43	33	536
Dehn, Louis O., Sandusky, Ohio. Hydraulic engine or motor	324,299	Oct. 13	1019	285	33	193
Deibert, Ambrose E., Kansas City, Mo. Trace or hame-tug buckle	310,390	Jan. 6	304	84	30	59
Deihn, John R., Pottsville, Pa. Spring bed-bottom	320,765	June 23	2473	655	31	1524
Deimel & Brothers, R. (See Kannmayer, George H., assignor.)						
Deimel, Gustave, Hancock, Mich. Trunk	311,176	Jan. 27	1352	371	30	269
Deimel, Gustave, Hancock, Mich. Trunk	318,455	May 26	2040	551	31	925
Deis, Philip H., and S. W. Croxton, Canal Dover, Ohio. Cuspidor and dust-trap	323,122	July 28	2333	619	32	448
Deis, Philip H., and S. W. Croxton, Canal Dover, Ohio. Cuspidor and dust-trap	332,330	Dec. 15	1588	417	33	1296
Deisen, Charles W. (See Dimelow, John, assignor.)						
Deitz, Henry. (See Ambler, Russell P., assignor.)						
Deitz, Henry. (See Ambler and Deitz.)						
Delafield, A. Floyd, Noroton, Conn. Saw-clamp	316,753	Apr. 28	2458	640	31	464
Delagneau, George, assignor to J. H. Graham, Hastings, Nebr. Piston-packing	327,666	Oct. 6	227	56	33	40
Delamater, Cornelius H., <i>et al.</i> (See Reynolds, George H., assignor.)						
Delamater, George W., assignor of one-third to J. R. Potts, New York, N. Y. Folding bedstead	327,246	Sept. 29	2742	712	32	1545
Delamater, William, <i>et al.</i> (See Reynolds, George H., assignor.)						
Delaney, Alexander, and J. M. Bond, Richmond, Va. Saw-mill set-works	321,282	June 30	3145	838 } 839 }	31	1653
Delaney, Alexander, and J. M. Bond, Richmond, Va. Saw-mill dog	325,507	Sept. 1	392	97	32	1090
Delaney, Alexander, and J. M. Bond, Richmond, Va. Saw-mill dog	331,619	Dec. 1	570	139	33	1097
Delaney, Joseph, Ashland, Pa. Ironing-board	317,932	May 12	1340	360	31	778
Delano, Eben A., assignor to D. W. Ryan, Chicago, Ill. Machine for hooping barrels	323,565	Aug. 4	240	70	31	566
Delano, Jesse L., Northampton, Mass. Reversible plow	312,438	Feb. 17	1338	369	30	613
Delano, William, Brooklyn, N. Y. Shutter-fastener	324,460	Aug. 19	1437	393	32	805
Delany, Edward J., San José, Cal. Mixing and agitating apparatus for plant-washes	321,089	June 30	2910	774	31	1610
Delany, H. J., <i>et al.</i> (See Bolte, Frank H., assignor.)						
Delany, Patrick, Newburg, N. Y. Buoy	325,162	Aug. 25	2382	656	32	988
Delany, Patrick B., New York, N. Y. Device for protection of men from disastrous effects of high-tension currents	318,172	May 19	1665	446	31	846
Delany, Patrick B., New York, N. Y. Electric cable	320,229	June 16	1718	457	31	1376
Delany, Patrick B., assignor to Standard Multiplex Telegraph Company, New York, N. Y. Telegraphic transmitting apparatus	316,125	Apr. 21	1598	417	31	303
Delany, Patrick B., assignor to Standard Multiplex Telegraph Company, New York, N. Y. Receiving apparatus for synchronous telegraphy	316,126	Apr. 21	1599	418	31	303
Delany, Patrick B., assignor to Standard Multiplex Telegraph Company, New York, N. Y. Synchronous telegraphy for fac-simile transmission	316,754	Apr. 28	2458	640 } 641 } 642 }	31	464
Delany, Patrick B., assignor to Standard Multiplex Telegraph Company, New York, N. Y. Synchronous telegraphy	322,427	July 21	1368	357	32	266
Delany, Patrick B., assignor, by means assignments, to Standard Multiplex Telegraph Company, New York, N. Y. Receiving apparatus for synchronous telegraphs	322,688	July 21	1716	455	32	329
Delany, Patrick B., assignor, by means assignments, to Standard Multiplex Telegraph Company, New York, N. Y. Printing device for synchronous telegraphy	322,689	July 21	1718	455	32	329
Delany, Patrick B., assignor to Standard Multiplex Telegraph Company, New York, N. Y. Effecting electrical synchronous movements	322,690	July 21	1721	455	32	330
Delany, Patrick B., assignor to Standard Multiplex Telegraph Company, New York, N. Y. Effecting electrical synchronous movements	322,691	July 21	1723	455	32	330
Delany, Patrick B., assignor to Standard Multiplex Telegraph Company, New York, N. Y. Electrically maintaining synchronous movements	322,692	July 21	1725	456	32	331
Delany, Patrick B., assignor to Standard Multiplex Telegraph Company, New York, N. Y. Regulating the vibrations of forks, reeds, &c.	322,694	July 21	1733	458	32	332
Delany, Patrick B., assignor to Standard Multiplex Telegraph Company, New York, N. Y. Mechanically correcting the vibrations of reeds and forks	322,695	July 21	1734	458	32	332
Delany, Patrick B., assignor to Standard Multiplex Telegraph Company, New York, N. Y. Actuating and correcting the vibrations of reeds	322,696	July 21	1735	458	32	332

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Delany, Patrick B., assignor to Standard Multiplex Telegraph Company, New York, N. Y. Relay for synchronous multiplex telegraphy.	332,808	July 21	1873	{ 496 497 }	32	357
Delany, Patrick B., assignor to Standard Multiplex Telegraph Company, New York, N. Y. Actuating and correcting the vibrations of forks, reeds, &c.	332,809	July 21	1874	497	32	357
Delany, Patrick B., New York, and E. A. Calahan, Brooklyn, assignors to Standard Multiplex Telegraph Company, New York, N. Y. Printing-telegraph for synchronous telegraphy.	332,693	July 21	1737	{ 456 457 }	32	331
Delapierre, Charles B. (See Frazier, Alexander, assignor.)						
Delavie, Albert D., Paris, France. Tool for affixing metal tags to laces.	311,571	Feb. 3	150	43	30	377
Delavigne, John C., New Orleans, La. Jute-machine.	312,100	Feb. 10	865	237	30	517
Delehanty, William E., Albany, and E. J. Murphy, Greenbush, N. Y. Automatic trap for wash-basins.	336,277	Sept. 15	1418	369	32	1290
Delerac, Alexander. (See Tynan, John A., assignor.)						
Delfis, Arnold N. D., Bedford, Tenn. Cement roof.	331,800	July 7	533	141	32	99
Delkescamp, Adolph, assignor to Metal Wheel Company, Waterbury, Conn. Sled.	312,980	Feb. 24	2057	562	30	753
Dell, John, St. Louis, Mo. Device for fastening mouth-pieces to gas-retorts.	312,965	June 2	48	19	31	1057
Dellenbeck, Caleb, Portland, Oreg. Window-hanging.	333,287	Dec. 29	2940	769	33	1550
Delmege, John W., North Billerica, Mass. Telegraph-sounder.	319,201	June 2	321	86	31	1108
Delmont, François, San Francisco, Cal. Guide-track for heavy furniture.	323,566	Aug. 4	242	71	32	566
Delong, George. (See Presler, Jacob, assignor.)						
Deloria, Louis, Chautauqua, Kans. Harrow.	316,755	Apr. 28	2463	642	31	465
Demand, Adam, Sheboygan Falls, Wis. Tilting-chair.	316,137	Apr. 21	1601	418	31	303
Demarest, John, New York, N. Y. Filter.	324,541	Aug. 18	1544	496	32	825
Demarest, John, assignor to J. L. Mott Iron Works, New York, N. Y. Trap for sewers.	317,099	May 5	222	56	31	544
Demarest, John, assignor to J. L. Mott Iron Works, New York, N. Y. Pressure-regulator.	317,748	May 12	1094	287	31	730
Demarest, John, assignor to J. L. Mott Iron Works, New York, N. Y. Overflow and discharge valve for baths.	324,542	Aug. 18	1545	496	32	825
Demary, George T., assignor to National Heeling Machine Company, Boston, Mass. Heel-attaching machine.	330,050	June 16	1479	390	31	1334
Demary, George T., assignor to National Heeling Machine Company, Boston, Mass. Manufacturing and attaching heels to boots or shoes.	321,686	July 7	384	102	32	72
Demensy, Augustus. (See Balm and Demensy.)						
Denning, Ernest, Middletown, Conn. Belting.	316,756	Apr. 28	2463	643	31	465
Denning, Ernest, Middletown, Conn. Halter.	324,237	Aug. 11	1135	309	32	741
Denning, Ernest, Middletown, Conn. Surcingle-buckle.	328,765	Oct. 20	1652	431	33	316
Denning, Lyander F., New York, N. Y. Folding cabinet-furniture.	321,586	July 7	242	64	32	47
Denning, Lyander F., New York, N. Y. Repetition-action for upright pianos.	336,278	Sept. 15	1420	370	32	1291
Dempsey, Dominick E. (See Spencer, Clare L., assignor.)						
Dempsey, William E. (See Merrill and Dempsey.)						
Dempster, Alexander E. and C. B. Beatrice, Nebr. Windmill.	324,092	Aug. 11	925	256	32	702
Dempster, Charles B. (See Dempster, Alexander E. and C. B.)						
Denuth & Co., William. (See Havell and Williams, assignors.)						
Denuth, William, New York, N. Y. Tobacco-box.	325,918	Sept. 8	927	234	32	1194
Denecke, Charles, Toledo, Ohio. Extensible stand.	314,408	Mar. 31	2400	637	30	1276
Denison, Charles H., Springfield, Mass. Collar or cuff.	322,697	July 21	1738	459	32	333
Denison, Edgar P., et al. (See Lovett, John, assignor.)						
Denison, George, Princeton Junction, N. J. Fire-escape.	316,757	Apr. 28	2464	643	31	465
Denison, Russel A., Providence, R. I. Electric conductor.	323,990	Aug. 11	697	195	32	662
Denison, Sylvester P., assignor of one-half to R. D. Radcliffe, New York, N. Y. Autographic telegraph.	315,391	Apr. 7	553	143	31	100
Denison, Sylvester P., assignor of one-half to R. D. Radcliffe, New York, N. Y. Autographic telegraph.	315,392	Apr. 7	556	{ 143 144 145 }	31	101
Denn, Clayton. (See Yerkes and Denn.)						
Dennett, Charles N., Salisbury, Mass. Jump-seat carriage.	324,306	Aug. 11	1230	335	32	759
Dennett, Fred A., Milwaukee, Wis. Horse hay-fork.	311,728	Feb. 3	347	96	30	414
Dennett Harvesting Machine Company. (See Young, Charles M., assignor.)						
Denney, Joseph M., Wartsburg, Wash. Ter. Axle-lubricator.	319,679	June 9	857	253	31	1233
Denney, Samuel L., Strasburg, Pa. Combined hay-tedder and rake.	312,336	Feb. 17	1904	{ 330 331 }	30	587
Denney, William F., Millbrook, Mich. Car-coupling.	316,128	Apr. 21	1602	418	31	304
Dennings, William, National Military Home, Dayton, Ohio. Game-wheel.	329,372	Oct. 27	2540	654	33	423
Dennis, John, Glenbeulah, Wis. Clothes-drier.	314,321	Mar. 24	1613	497	30	1102
Dennis, John, Glenbeulah, Wis. Combined wash-bench and wringer.	317,100	May 5	222	56	31	544
Dennis, John, Oswego, N. Y. Railway-bridge.	319,798	June 9	1123	298	31	1262
Dennis, Samuel, Monroe, Wis. Ladder.	314,438	Mar. 24	1690	504	30	1155
Dennis, Samuel, Hornellsville, N. Y. Rat-trap.	324,925	Aug. 25	2079	569	32	932
Dennis, Thomas J., Newark, N. J. Stair-carpet covering.	330,963	Nov. 24	2046	553	33	918
Dennis, William F., London, England. Wire-netting machine.	327,924	Oct. 6	541	{ 141 142 }	33	97
Denno, Amos L., Salem, N. Y. Jack.	318,702	May 26	2373	633	31	984
Dennstedt, Maximilian, Tschobels-Niederlandsitz, Prussia, Germany. Manufacture and preservation of articles of gypsum, stucco, or the like.	314,114	Mar. 17	1462	.....	30	1065
Denny, Edward B., and A. B. Griffen, Newark, N. J., assignors to Imperial Manufacturing Company, of New Jersey. Apparatus for mixing aeriform fluids.	327,146	Sept. 29	2613	681	32	1520
D'Entermont, Henry T. (See Amiro, Ambrose, assignor.)						
Denton, Daniel D., trustee. (See Hamilton, Wesley W., assignor.)						
Denton, James E., Hoboken, N. J. Chuck for rock-drills.	318,420	May 19	1993	536	31	908
Denton, James E., Hoboken, N. J. Chuck for rock-drills, &c.	319,202	June 2	323	86	31	1108
Denton, James E., Hoboken, N. J. Steam-actuated valve.	325,508	Sept. 1	394	97	32	1080
Denton, Joseph. (See Merritt and Müller, assignors.)						
Denton, Joseph B., Newtown, N. Y. Fertilizer-distributor.	314,920	Mar. 31	2563	678	30	1303
Denton, Whitley, Little Falls, N. Y. Cabinet for boots and shoes.	332,238	Dec. 15	1470	383	33	1275
Denton, Winfield S., Dallas, Tex. Oil-can.	332,239	Dec. 15	1471	383	33	1275
Deobold, Augustus G., Bloomington, Ill. Grain scouring and cleaning machine.	325,919	Sept. 8	938	{ 234 235 }	32	1194
Depp, William E., Brookville, Pa. Toy.	330,681	Nov. 17	1667	449	33	840
Depp, William E., assignor of one-half to S. Chambers, Brookville, Pa. Spading-machine.	332,703	Dec. 22	2133	563	33	1297
Depue, Elisha, Skinner's Eddy, Pa. Side-bar vehicle.	321,587	July 7	244	65	32	47
Derby & Ball. (See Thompson, Daniel, assignor.)						
Derby & Co., Philander. (See Parker, Frank F., assignor.)						
Derby, Harry S. (See Schirmer, John A., assignor.)						
Derby, John O., New York, N. Y. Tool for cutting or trimming glass.	316,430	Apr. 21	1919	{ 525 526 }	31	374

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Derby, Philander. (See Parker, Frank F., assignor.)	332,892	Dec. 22	2370	687	33	1441
Derby, Scott B., Utica, Nebr. Measuring-faucet.	326,205	Sept. 15	1321	342	32	1273
Derby, Walter N., Etta, N. H. Extension-ladder.						
Derham, Samuel G., assignor of one-half to G. W. Rayner, New York, N. Y. Bottle-stopper	319,076	June 2	179	48	31	1081
Dernelle, Louis, Cheltenham, Mo. Brick-machine	327,667	Oct. 6	467	121	33	83
Derr, Frank O., Moulton, Iowa. Trace-carrier.	319,681	June 9	958	254	31	1224
Derrom, Andrew, Paterson, N. J. Composition mastic for covering roofs, telegraph-wires, &c.	315,477	Apr. 14	709	.....	31	132
Derral, Eugène, Paris, France. Gas-pressure regulator	325,509	Sept. 1	395	97	32	1090
Derr, Martin. (See Neumer and Derr.)						
Desart, Joshua M., Hillsborough, Ill. Animal-trap	324,238	Aug. 11	1136	309	32	741
Desjardins-Lieux, Ernest. (See Bara and Desjardins-Lieux.)						
Desjardins Téléphore, Burlington, Vt. Rein-support	331,479	Dec. 1	318	85	33	1055
Dealer, Henry R., Freeburg, Ohio. Mill-feed regulator	322,164	July 14	1034	268	32	196
Desmond, George W., Venice, N. Y. Nut-lock	330,471	Nov. 17	1415	377	33	790
Desmond, John, assignor to Simon & O'Neill, Cleveland, Ohio. Steam-injector	326,408	Sept. 15	1586	413	32	1323
Desmond, John, Cleveland, assignor to A. Noteman, Toledo, Ohio. Steam-boiler injector	330,302	Nov. 10	1172	312	33	737
Desmond, John, assignor of one-half to W. R. Gerrard, Cleveland, Ohio. Injector	330,964	Nov. 24	2047	554	33	918
Desmond, John, Cleveland, Ohio, assignor to R. Stephens, Detroit, Mich. Steam-injector	332,386	Dec. 15	1673	438	33	1311
Desmond, John, Toledo, assignor, by mesne assignments, of two-thirds to J. V. Kennedy, Cleveland, Ohio. Steam-injector	330,692	Nov. 17	1668	449	33	841
Desaureau, William H., Osageo Lake, Mich. Device for fitting crosscut-saws	322,165	July 14	1035	268	32	196
D'Esté, Julian, Medford, Mass. Check-valve	326,549	Sept. 22	1762	461	32	1363
Detroit Casket Company. (See Holdsworth, William, assignor.)						
Detroit Electrical Works. (See Fisher, Frank E., assignor.)						
Detroit Iron Tower Company. (See Adams, John S., assignor.)						
Detroit Machine Screw Works. (See Taylor, Harrison H., assignor.)						
Detroit Steel and Spring Works. (See Burns, Elijah F., assignor.)						
Detroit Steel and Spring Works. (See Woolley, James K., assignor.)						
Detwiler, Albert, Milwaukee, Wis., assignor to D. and C. A. Croake. Gas-generator	315,747	Apr. 14	1077	282 283	31	202
Detwiler, Daniel W. (See Bair, Francis L., assignor.)						
Detwiler, Emanuel, Milwaukee, Wis. Gas-burner	324,665	Aug. 18	1723	474	32	858
Detwiler, Emanuel, Milwaukee, Wis. Kiln for firing decorated china	329,373	Oct. 27	2541	655	33	463
Deuel, Reuben, assignor of one-half to J. A. Parker, Terre Haute, Ind. Fluid diaphragm-meter	327,388	Sept. 29	2833	765	32	1577
Deumelandt, Gottlieb, Potsdam, Prussia, Germany. Separating basic compounds from slags	318,603	May 26	2245	.....	31	960
Deuscher, Henry P. (See Snider, Worthington J., assignor.)						
Deuscher, Henry P. (See South, Edward M., assignor.)						
Deutsch, Sigmund, Philadelphia, Pa. Shirt-bosom	321,801	July 7	535	141	32	99
Deverall, Frederick J., Jersey City, N. J. Bottle-stopper	313,926	Mar. 17	1231	320	30	1021
Devereux, Walter B., Aspen, Colo. Slag-luggy	312,439	Feb. 17	1339	369	30	614
Devereux, Walter B., Aspen, Colo. Blast-furnace tuyere	318,604	May 26	2246	601	31	960
Devey, Mathew H., Chester, Pa. Conduit for electrical wires	314,655	Mar. 31	2190	580 581	30	1234
Devine, Charles E., assignor of one-half to C. Paxton, Plattsburg, N. Y. Thread-releaser for sewing-machines	327,925	Oct. 6	545	142	33	98
Devine, Edward, Detroit, Mich. Pipe-bending machine	313,302	Mar. 3	386	95	30	847
Devine, James J., Philadelphia, Pa. Bolt	315,748	Apr. 14	1078	283	31	202
Devoc & Co., F. W. (See Stuart, Carl W., assignor.)						
Devoc, Daniel E., et al. (See Hoyt, Lewis S., assignor.)						
Devoc, J. S., et al. (See Pulliam, William J., assignor.)						
Devoll, Henry W., et al. (See Vaughn and Eldridge, assignors.)						
Devore, Levi M., Freeport, Ill. Sash-balance	324,819	Aug. 25	1939	533	32	906
Devore, Levi M., Freeport, Ill. Tool-handle	330,383	Nov. 17	1295	343	33	768
Devore, Levi M., assignor to Freeport Spring Hinge Company, Freeport, Ill. Spring-hinge	326,956	Sept. 29	2263	618	32	1476
Dew, Joseph R., Knoxville, Tenn. Fruit-drier	320,543	June 23	2191	579	31	1469
Dew, Joseph R., Knoxville, Tenn. Fruit-drier	322,506	Dec. 15	1969	515	33	1361
Dewees Fabric Trimmer Company. (See Dewees, John W., assignor.)						
Dewees Fabric Trimmer Company. (See Sweeney and Rehfuess, assignors.)						
Dewees, John W., assignor to Dewees Fabric Trimmer Company, (limited), Philadelphia, Pa. Fold-guide for sewing-machines	319,394	June 2	558	152	31	1154
Dewees, James E., Nevada, Mo. Wheel for vehicles	314,520	Mar. 24	2007	535	30	1174
Dewees, Levi L., Canton, Ohio. Hitching-strap clamp	330,213	Nov. 10	1061	277	33	715
Dewey, A. T. (See Sanborn, Clarence, assignor.)						
Dewey, Charles M., Jersey City, N. J. Sewing-machine	326,724	Sept. 22	2038	530	32	1411
Dewey, Charles M., Jersey City, N. J. Puzzle	326,725	Sept. 22	2040	531	32	1411
Dewey, Charles M., Jersey City, N. J. Puzzle	328,766	Oct. 20	1653	431	33	317
Dewey & Co., Edward. (See Hardy, Alvah E., assignor.)						
Dewey, Francis O., Reading, Mass. Wick-scrapping attachment for lanterns	315,256	Apr. 7	384	95	31	70
Dewey, Francis O., Reading, Mass. Safety attachment for lanterns	319,799	June 9	1126	298	31	1263
Dewey, Hosea B., Milwaukee, Wis. Hot-air furnace	324,254	Aug. 11	1137	309	32	742
Dewey, Willie E., Racine, Wis. Pillow-sham holder	318,966	June 2	49	13	31	1057
Dewhurst, Algernon, Skipton, county of York, England. Thread-case for sewing-machines	324,240	Aug. 11	1138	309	32	742
Dewhurst, John B. and T. H., and R. Cornthwaite, Skipton, county of York, England. Spindle and bearing therefor	316,758	Apr. 28	2466	643	31	466
Dewhurst, Thomas H. (See Dewhurst and Cornthwaite.)						
Dewrance, John, Lambeth, county of Surrey, England. Asbestos packing	311,729	Feb. 3	347	.....	30	414
Dexter, Fred W., Pawtucket, R. I. Marking spoons, &c.	324,241	Aug. 11	1139	310	32	742
Dexter, Himan C., New York, N. Y. Scraper attachment for removing calcimine and the like from ceilings	323,123	July 28	2334	619	32	449
Dexter, Orel K., assignor of one-half to C. L. Simpson, Lowell, Mass. Device for cutting butter	316,759	Apr. 28	2467	644	31	466
Dexter, Talbot C., Des Moines, Iowa. Paper-folding machine	324,926	Aug. 25	2080	569	32	832
Dexter, Talbot C., Des Moines, Iowa. Paper-folding machine	323,331	Dec. 15	1589	417	33	1296
Dexter, Talbot C., Des Moines, Iowa. Sheet-switching device for paper-folding machines	332,332	Dec. 15	1590	417	33	1296

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Dexter, William A., Dayton, N. Y. Log-boat.....	329,145	Oct. 27	2904	571	33	428
Dey, Charles E., Denver, Colo. Annunciator.....	323,921	Aug. 11	698	195	32	662
Devell, Isaac, St. Thomas, Ontario, Canada. Spark-extinguisher.....	310,565	Jan. 13	523	143	30	106
Dezendorf, John F., et al. (See Warner, John P., assignor.)						
D'Heureuse, Rudolph, New York, N. Y. Malting, brewing, &c.....	318,548	May 26	2185		31	949
Dial, Robert C., et al. (See Nutting, Adrain, assignor.)						
Dial, Wilbur F. (See Wheeler and Dial.)						
Diamond, Marc, New York, N. Y. Pantograph.....	310,186	Jan. 6	37	11	30	9
Dias, Alzina, administratrix. (See Byce and Dias.)						
Dias, Isaac L., deceased. (See Byce and Dias.)						
Dibben, Frank, San Francisco, assignor of one-half to E. J. Dubbs, Alameda, Cal. Manu- facture of superphosphate.....	322,698	July 21	1739		32	333
Dibble, Frank H., New Haven, Conn. Horse-car canopy.....	310,992	Jan. 20	1065	297	30	215
Dibble, Horace V. (See Lawrence and Dibble.)						
Dibble, Theodore H. (See Daves, Charles K., assignor.)						
Dice, Andrew F., Joliet, Ill. Barbed-wire spool.....	318,967	June 2	50	13	31	1057
Dice, Peter M., assignor of one-half to E. H. Butterbaugh, North Manchester, Ind. Land- marker.....	332,792	Dec. 22	2945	592	33	1419
Dicey, Elmer C., Chicago, Ill. Cut-off-valve gear.....	322,964	July 14	1151	300	32	219
Dick, Dundas, New York, N. Y. Easel.....	333,203	Dec. 29	2823	739	33	1528
Dick, Frank W., and J. Riley, near Glasgow, county of Lanark, Scotland. Regenerative furnace for steel-making.....	328,389	Oct. 13	1156	296	33	218
Dick, Frank W., and J. Fleming, Glasgow, county of Lanark, Scotland. Valve.....	328,390	Oct. 13	1157	296	33	219
Dick, George, assignor of one-half to J. E. Bell, Baltimore, Md. Piston-packing.....	324,754	Aug. 18	1841	507	32	880
Dick, Jacob, Greenville, Ohio. Wagon-box.....	318,703	May 26	2374	633	31	985
Dick, James S., Crete, Nebr. Trace-carrier.....	331,620	Dec. 1	571	139	33	1093
Dick, John, Meadville, Pa. Valve-gear.....	329,891	Nov. 10	638	162	33	631
Dick, John W., Limerick, Me. Match-safe for lanterns.....	317,747	May 12	1095	287	31	730
Dick, Joseph C. F., Belvidere, Ill. Button-attaching machine.....	310,934	Jan. 20	999	271	30	197
Dick, Robert B., Philadelphia, Pa. Gas-pressure regulator.....	325,510	Sept. 1	398	98	32	1091
Dick, Robert B., Philadelphia, Pa. Trap for wash-basins, &c.....	330,683	Nov. 17	1669	449	33	841
Dickenson, Charles, Portland, Oreg. Car-starter.....	326,855	Sept. 22	2923	580	32	1444
Dickenson, William, Heart's Content, Newfoundland. Siphon recording-instrument for cables.....	329,723	Nov. 3	401	103	33	561
Dicker, John, Newark, N. J. Pencil-case.....	325,325	Sept. 1	127	36	32	1039
Dickerhoff, Frederic M. (See Clark, William F., assignor.)						
Dickerman, Amos, New Haven, Conn. Making metallic cartridge-shells.....	313,187	Mar. 3	225	55, 56	30	818
Dickerman, Amos, New Haven, Conn. Machine for sizing paper tubes.....	316,139	Apr. 21	1604	419	31	304
Dickerman, Amos, New Haven, Conn. Breech-loading fire-arm.....	323,501	Aug. 4	156	46	32	551
Dickerson, George W., New Castle, Del., assignor to G. Draper & Sons, Hopedale, Mass. Bobbin-supporter for spooling-machines.....	312,710	Feb. 24	1709	469	30	690
Dickerson, Samuel H., assignor of one-half to L. Hillman, Dayton, Ohio. Thrill-coupling.....	327,868	Oct. 6	468	122	33	83
Dickert, Ferdinand, Salt Lake City, Utah Ter. Apparatus for refining sulphur.....	310,187	Jan. 6	38	11	30	10
Dickey, Lindsey, Vibbard, Mo. Velocipede.....	318,662	June 9	958	254	31	1224
Dickey, Alexander H., Connersville, Ind. Vehicle-spring.....	312,441	Feb. 17	1341	370	30	614
Dickey, William H. (See Smith and Dickey.)						
Diekhut, Henry E., Quincy, Ill. Tape-line box.....	332,505	Dec. 15	1828	479	33	1338
Dickle, Edward. (See Hirst and Dickle.)						
Dickinson, Aspiden P. (See Duxbury, Yates, Jr., assignor.)						
Dickinson, Aspiden P., Blackburn, county of Lancaster, England. Warp-sizing machine.....	320,466	June 23	2093	551	31	1452
Dickinson, Charles, Chicago, Ill. Blast-regulator for fanning-machines, &c.....	324,242	Aug. 11	1140	310	32	742
Dickinson, Cyrus F. (See Dickinson, Henry and C. F.)						
Dickinson, David A., Baltimore, Md. Farm-gate.....	312,442	Feb. 17	1342	370	30	614
Dickinson, Dudley H., Philadelphia, Pa. Apparatus for preserving by vacuum and pres- sure.....	328,016	Oct. 13	663	174	33	127
Dickinson, Elijah M., Fitchburg, Mass. Cutting heel-rands from counter-blanks.....	316,130	Apr. 21	1606	419	31	304
Dickinson, Frederick. (See Getty and Dickinson.)						
Dickinson, H. R., et al. (See Brewis, John J., assignor.)						
Dickinson Hard Rubber Company (See Nickerson, Fred. A., assignor.)						
Dickinson, Henry and C. F., Lowell, Ind. Chain-pump.....	324,243	Aug. 11	1141	310	32	742
Dickinson, Henry S., Jersey City, N. J. Chimney-cap.....	310,391	Jan. 6	305	84	30	59
Dickinson Paper Company, George R. (See Barber, Frank H., assignor.)						
Dickinson, Thomas W., Sharon, Pa. Fire-place attachment.....	321,588	July 7	245	65	32	47
Dickson, William F., Peoria, Ill. Apron-slat fastening.....	331,948	Dec. 8	1042	270	33	1195
Dickman, George, et al. (See Conard, Léon P., assignor.)						
Dickson, Charles K., St. Louis, Mo. Hame-fastener.....	313,927	Mar. 17	1232	320	30	1021
Dickson, David A., Chicago, Ill. Clothes-drier.....	324,987	Aug. 25	2169	593	32	948
Dickson, George H., East New York, N. Y. Steam-actuated valve.....	319,965	June 16	1368	359	31	1313
Dickson, George H. and J., Brooklyn, N. Y. Packing for piston-rods.....	332,793	Dec. 22	2946	592	33	1419
Dickson, Gilbert J., Albany, N. Y. Ice-tongs. (Reissue).....	10,548	Jan. 6	501	138	30	60
Dickson, Gilbert J., Albany, N. Y. Spade.....	316,014	Apr. 21	1438	375	31	274
Dickson, Gilbert J., Albany, N. Y. Transom-lifter.....	332,794	Dec. 22	2946	592	33	1420
Dickson, Henry, Pittsburg, Pa. Brick, tile, drain-pipe, &c.....	313,480	Mar. 10	617	160	30	909
Dickson, Herbert P., West Lima, Wis. Handle for millstone-picks.....	311,476	Feb. 3	21	6	30	352
Dickson, J. T., et al. (See Fox, Albert R., assignor.)						
Dickson, John. (See Dickinson, George H. and J.)						
Dickson, John S., Pittsburg, assignor to Pittsburg Hob Nail Manufacturing Company, Bridgewater, Pa. Nail-machine.....	332,062	Dec. 8	1907	315 316	33	1223
Dickson, John S., Pittsburg, assignor to Pittsburg Hob Nail Manufacturing Company, Bridgewater, Pa. Manufacture of nails.....	332,190	Dec. 8	1393	360	33	1254
Dickson, Joseph B., et al. (See Pendleton, John H., assignor.)						
Dickson, William H., Philadelphia, Pa. Railway-frog.....	312,443	Feb. 17	1343	370	30	615
Diebold, Carl, Canton, Ohio. Safe attachment.....	331,480	Dec. 1	318	86	33	1056
Diebold Safe and Lock Company. (See Kirks, Albert, assignor.)						
Dieckmann, George F., assignor of one-fourth to Paul Gnehl, New York, N. Y. Elec- tric earth-battery.....	329,724	Nov. 3	403	103	33	562
Dieffendorf, Emma G. (See Dunham, Charles L., assignor.)						
Diehl, George H., Lake, Ill. Grain-drier.....	318,704	May 26	2375	633	31	985
Diehl, Philip, Elizabeth, N. J. Electric-arc lamp.....	314,567	Mar. 31	2071	554	30	1214
Diehl, Philip, Elizabeth, N. J. Regulator for dynamo-electric machines.....	324,666	Aug. 18	1725	475	32	856

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Diehl, Philip, Elizabeth, N. J. Electric motor.....	324,667	Aug. 18	1726	475	32	858
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company, of New Jersey. Belt shifting and replacing device.....	313,999	Mar. 17	1314	343	30	1038
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Feeding mechanism for sewing-machines.....	319,800	June 9	1127	298 299	31	1263
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Feeding mechanism for button-hole sewing-machines.....	319,801	June 9	1128	299	31	1264
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Button-hole sewing-machine.....	322,428	July 21	1370	357 358	32	286
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Shuttle-operating mechanism for sewing-machines.....	330,384	Nov. 17	1296	344	33	768
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Feeding mechanism for sewing-machines.....	330,385	Nov. 17	1297	344	33	768
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Sewing-machine shuttle.....	330,386	Nov. 17	1299	344	33	769
Diehl, Samuel G. (See Clay, Henry T., assignor.)						
Diehl, Samuel G. (See Cohen, Robert L., assignor.)						
Diehl, Thompson R. (See Fink, John B., assignor.)						
Diehlmann, Carl F., Brooklyn, N. Y. Bolt.....	316,760	Apr. 28	2468	644	31	466
Diener, Carl. (See Ma'rhofer, Charles A., assignor.)						
Dierke, John, Harlan, Iowa. Shutter-worker.....	322,588	July 21	1594	420	32	305
Dierke, John, and T. B. Kall, Harlan, Iowa. Cane.....	324,093	Aug. 11	928	256	32	703
Dieter, Louis F. (See Kelly and Dieter.)						
Dieterich, Daniel P., et al. (See Phillippi, Abraham H., assignor.)						
Dieterich, Michael, et al. (See Perkins, William J., assignor.)						
Diétrich, Christian. (See Wroth, Alfred B., assignor.)						
Dietz, Christoph F., New Orleans, La. Time-piece dial.....	328,112	Oct. 13	791	206	33	149
Dietz, Frederick, New York, N. Y. Tubular lantern.....	310,188	Jan. 6	39	11	30	10
Dietz, Hermann, Berlin, Germany. Grain scouring and cleaning machine.....	314,439	Mar. 24	1891	505	30	1156
Dietz, R. E. (See Wood, Joseph S., assignor.)						
Dietz, Robert E., et al. (See Betts, Lewis F., assignor.)						
Diez, Eugen, Weinaberg, Germany. Apparatus for protecting windows.....	330,965	Nov. 24	2048	554	33	918
Diffenderfer, William H., Middletown, Pa. Safety-guard for eccentric rods.....	310,655	Jan. 13	633	175	30	126
Diffenderfer, Frank A., et al. (See Lake, Anthony, assignor.)						
Diggs, Charles E., Baltimore, Md., and W. L. Meesick, Carter's Creek, Va. Self-leveling table for ships.....	317,748	May 12	1096	287	31	731
Dight, William M., Mercer, Pa. Seed-planter.....	318,705	May 26	2376	634	31	965
Dignam, John S., London, Ontario, Canada. Ornamenting the handles of articles of glass- ware.....	320,915	June 30	2674	710	31	1567
Dikeman, Charles W., Racine, Wis. Machine for making rugs, &c.....	320,339	June 16	1895	498 499	31	1407
Dilig, Henry W. (See Thielsen and Dilig.)						
Dill, Joseph G., Richmond, Va. Tobacco-dusting machine.....	318,549	May 26	2187	585	31	950
Dill, Rufus M., Freeport, Me. Lamp-burner.....	310,392	Jan. 6	306	84	30	59
Dillard, Gregory M., Macon, Miss. Felly-clamp.....	314,922	Mar. 24	1614	427	30	1103
Dillard, Robert M., Geneva, Nebr. Buckle.....	326,410	Sept. 15	1587	413	32	1323
Dillard, Robert M., Geneva, Nebr. Buckle.....	331,378	Dec. 1	171	44	33	1028
Dille, George A., Athens, Ohio. Attachment for dental chairs.....	328,659	Oct. 20	1527	397	33	282
Dille, Henry H., and E. W. McGuire, Richmond, Ind. Lawn-mower.....	323,295	July 28	2554	660 661	32	469
Dillenburg, Michael, San Francisco, Cal. Pipe-coupling.....	323,567	Aug. 4	243	71	32	567
Dilley, F. L. (See Scott, James O., assignor.)						
Dilling, George, Millvale, Pa. Wagon-brake.....	318,550	May 26	2188	585	31	950
Dillin, Maurice R. (See Mander, James, assignor.)						
Dillingham, Fred B., Freeport, Me., assignor of one-half to J. E. Abbott, Watertown, Mass. Trimming attachment for sewing-machines.....	322,355	July 14	1268	331	32	241
Dillman, Augustus C., Bryan, Ohio. Hammock.....	329,631	Nov. 3	222	73	33	559
Dillon, James M., Birmingham, Ala. Velocipede.....	325,921	Sept. 8	822	205	32	1173
Dillon, John S., assignor to Foster & Bailey, Providence, R. I. Button.....	321,953	July 14	751	196	32	145
Dillon, N. G. (See Heldreth, Joseph W., assignor.)						
Dillon, Washington M. (See Upham, Andrew J., assignor.)						
Dillon, William H., Glasgow, Ky. Pump.....	315,257	Apr. 7	385	95	31	70
Dillon, William S. F., Cincinnati, Ohio. Fluid-discharge and vent faucet.....	331,379	Dec. 1	172	44	33	1029
Dillon, William S. F., Madeira, assignor of one-half to W. E. Arnold, Madisonville, Ohio. Clothes-rubbing pad.....	320,856	June 23	2587	685	31	1545
Dimelow, James, Wilmington, Del. Steam-trap.....	310,885	Jan. 20	925	253	30	186
Dimelow, John, Post Oak Grove, assignor to himself and C. W. Delsen, Austin, Tex. Man- ufacture of hydraulic cement.....	321,569	July 7	246		32	48
Dimmick, Jacob K., Newport, Ky. Apparatus for forming molds for casting metal pipe.....	317,101	May 5	224	57	31	564
Dimond, Charles H. (See House and Dimond.)						
Dimond, George H., Bridgeport, Conn. Sewing-machine tension.....	324,755	Aug. 18	1842	507	32	821
Dimond, George H., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Sewing-machine.....	317,749	May 12	1096	288	31	731
Dimond, William, assignor of one-half to W. H. Shank, Huntington, Ind. Ice-tongs.....	314,169	Mar. 17	1538	402	30	1078
Dingle, William, and W. Jenkins, Lake Mahopac; said Jenkins assignor to A. F. Wendt, New York, N. Y. Stuffing-box. (Re-issue).....	10,608	June 9	1338	352	31	1300
Dinkel, George, assignor to F. O. Matthieseen & Wiechers Sugar Refining Company, Jer- sey City, N. J. Magma-pump.....	311,878	Feb. 10	548	150	30	459
Dinkelbühler, John G. (See Feintheil and Dinkelbühler.)						
Dinkelmeier, Wilhelm G., Nuremberg, Bavaria, Germany. Pen and pencil case.....	329,541	Nov. 3	165	43	33	537
Dinamore, Olenzo A. (See Scanlan and Dinamore.)						
Dinsmore, William H., Connellsville, Pa. Nut-lock.....	311,879	Feb. 10	549	151	30	459
Dion, Léon O., assignor to J. M. Fiske, trustee, Natick, Mass. Shutter-worker.....	316,529	Apr. 28	2136	592	31	406
Dippry, Gideon S., Canton, Ohio. Beave-trough hanger.....	319,466	June 9	673	181	31	1122
Direction der Patentpapierfabrik zu Penig. (See Schreiber, Gerhard, assignor.)						
Disbrow, Hamilton T., et al. (See Brock, William E., assignor.)						
Disbrow, Herman G., et al. (See Brock, William E., assignor.)						
Diamant, Enos. (See Goodwin, Thomas A., assignor.)						
Disney, Sarah M. (See Carr, John A., assignor.)						
Diss, Albert B., Brooklyn, N. Y. Furniture-caster.....	324,820	Aug. 25	1940	533	32	906
Diss, Louis P., assignor to E. Remington & Sons, Ilion, N. Y. Magazine for fire-arms.....	313,856	Mar. 17	1119	290	30	1092
Dissaway, Crowel M., Philadelphia, Pa., assignor to W. R. Pitt, Richmond Hills, N. Y. Folding gate and window-guard.....	330,966	Nov. 24	2049	554	33	918

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Diaston, Hamilton, <i>et al.</i> (See Diaston, Thomas S., assignor.)						
Diaston, Hamilton, <i>et al.</i> (See Eisenhardt, Christopher, assignor.)						
Diaston, Hamilton, <i>et al.</i> (See Shoemaker, Charles T., assignor.)						
Diaston, Hamilton, <i>et al.</i> (See Smith, John, assignor.)						
Diaston, Hamilton, <i>et al.</i> (See Williams, Samuel T., assignor.)						
Diaston, Horace C., <i>et al.</i> (See Diaston, Thomas S., assignor.)						
Diaston, Horace C., <i>et al.</i> (See Eisenhardt, Christopher, assignor.)						
Diaston, Horace C., <i>et al.</i> (See Shoemaker, Charles T., assignor.)						
Diaston, Horace C., <i>et al.</i> (See Smith, John, assignor.)						
Diaston, Horace C., <i>et al.</i> (See Williams, Samuel T., assignor.)						
Diaston, Jacob S., <i>et al.</i> (See Diaston, Thomas S., assignor.)						
Diaston, Jacob S., <i>et al.</i> (See Eisenhardt, Christopher, assignor.)						
Diaston, Jacob S., <i>et al.</i> (See Shoemaker, Charles T., assignor.)						
Diaston, Jacob S., <i>et al.</i> (See Smith, John, assignor.)						
Diaston, Jacob S., <i>et al.</i> (See Williams, Samuel T., assignor.)						
Diaston, Thomas S., Philadelphia, Pa. Shingle-planing machine.	312,444	Feb. 17	1344	{ 370 371 }	30	615
Diaston, Thomas S., Philadelphia, Pa. Folding ladder.	322,699	July 21	1740	459	32	333
Diaston, Thomas S., assignor of one-half to A. S. Carter, Philadelphia, Pa. Convertible skate.	329,146	Oct. 27	2205	571	33	422
Diaston, Thomas S., assignor to H. H. C. W., and J. S. Diaston, Philadelphia, Pa. Post-hole-digging implement.	333,452	Dec. 29	2155	685	33	1587
Diaston, William, <i>et al.</i> (See Diaston, Thomas S., assignor.)						
Diaston, William, <i>et al.</i> (See Eisenhardt, Christopher, assignor.)						
Diaston, William, <i>et al.</i> (See Shoemaker, Charles T., assignor.)						
Diaston, William, <i>et al.</i> (See Smith, John, assignor.)						
Diaston, William, <i>et al.</i> (See Williams, Samuel T., assignor.)						
Dittmars, John V. H., New York, N. Y. Combined easy-chair and couch.	325,326	Sept. 1	122	36	32	1039
Dittmarhoefer, Myer, New York, N. Y. Ruler.	331,461	Dec. 1	320	86	33	1055
Dittman, Gustav H., Lake View, assignor to Adams & Westlake Manufacturing Company, Chicago, Ill. Decorating zinc.	318,882	May 26	2621	.....	31	1027
Dittmar, Ferdinand, Toronto, Ontario, Canada. Safety attachment for gas-burners.	314,000	Mar. 17	1315	344	30	1038
Dittmar, Max. (See Ostermayer and Dittmar.)						
Dittrick, John, Smith's Falls, Ontario, Canada. Fire-escape.	319,888	June 9	1250	330	31	1264
Dittrick, John, Smith's Falls, Ontario, Canada. Fire-escape.	326,726	Sept. 22	2040	531	32	1412
Ditwiler, Homer B., Mansfield, Ohio. Armlet.	321,422	July 7	10	3	32	4
Ditwiler & Son, J. (See Howard, Hoy, assignor.)						
Divine, Frederick D., Utica, assignor of one-half to W. D. Edmonds, New York, N. Y. Reel-holder and fastening for fishing rods.	331,380	Dec. 1	174	44	33	1029
Dix, Walter L. (See Parkhurst, Joseph P., assignor.)						
Dixon, Allen. (See Brightmore and Dixon.)						
Dixon, Charles A., assignor to R. Whitehill, Newburg, N. Y. Valve mechanism.	319,802	June 9	1130	{ 300 301 }	31	1264
Dixon, Henry L., Pittsburg, Pa. Glass-furnace.	324,307	Aug. 11	1231	{ 335 336 }	32	769
Dixon, Henry M., New York, N. Y. Toy cap-exploder.	339,063	Dec. 8	1211	316	33	1224
Dixon, John, and E. B. Rhodes, West Baden, Ind. Freight-truck.	321,802	July 7	536	141	32	100
Dixon, Maynard L., assignor to L. W. Fairchild, New York, N. Y. Combined match-box and cigar-cutter.	317,980	May 19	1415	320	31	800
Dixon, Michael J., New York, and J. W. Wallace, Brooklyn, N. Y. Ice-cream can.	321,954	July 14	752	196	32	145
Dixon, Robert H. (See Steward and Dixon.)						
Dixon, Robert W., assignor to Springfield Manufacturing Company, Springfield, Ohio. Horse hay-rake.	320,766	June 23	2473	655	31	1524
Dixon, Robert W., assignor of two-thirds to C. Stewart, Springfield, Ohio. Knotter mechanism for self-binders.	324,988	Aug. 25	2170	523	32	948
Dixon, Rufus E., assignor to F. Foster, New York, N. Y. Safe-deposit vault.	329,147	Oct. 27	2206	572	33	422
Dixon, Thomas I. (See Vogelsang, Alexander, assignor.)						
Dixon, William C. (See Hayden and Dixon.)						
Doan, Wallace. (See Doan, William S., assignor.)						
Doan, William S., Sacramento, assignor of one-half to W. Doan, San Francisco, Cal. Crane and derrick.	329,148	Oct. 27	2206	573	33	422
Doane, Andrew J., assignor of two-thirds to C. N. Arnold and T. E. Smith, Norwalk, Conn. Core-arbor.	317,102	May 5	225	57	31	565
Doane, William H., Cincinnati, Ohio. Circular sawing machine.	319,395	June 2	560	152	31	1154
Doane, William H., Cincinnati, Ohio. Centering device for tenoning and other machines.	322,391	Oct. 13	1158	299	33	219
Doane, William H., and G. W. Bugbee, Cincinnati, Ohio. Circular sawing machine.	311,421	Jan. 27	1703	{ 463 464 }	30	333
Doane, William H., and G. W. Bugbee, Cincinnati, Ohio. Lathe for turning irregular forms.	321,423	July 7	11	3	32	5
Dobb, William A., Smithville, Miss. Combined harrow and cotton-planter.	326,206	Sept. 15	1722	343	32	1273
Dobbins, David P., Buffalo, N. Y. Life-boat.	316,881	Apr. 22	2632	626	31	426
Dobbins, David P., Buffalo, N. Y. Life-boat.	316,882	Apr. 22	2633	626	31	427
Dobbins, Edwin A., Middletown, N. Y. Lamp-burner.	331,381	Dec. 1	175	44	33	1029
Dobbins, Thomas C. (See Murbarger, William E., assignor.)						
Dobbs, Charles G., New York, N. Y. Buckle.	319,829	June 9	1251	330	31	1224
Dobbs, Seneca, Rochester, N. Y. Heating apparatus.	314,320	Mar. 24	1733	{ 461 462 }	30	1125
Doble, Lucius A., Des Moines, Iowa. Skeleton furnace and steam-generator.	324,461	Aug. 18	1438	393	32	805
Dobson, Isaac F., <i>et al.</i> (See Laskey, John H., assignor.)						
Docker, Harry. (See Knight and Docker.)						
Dockstader, Dennis S., Mendville, Pa. Coal-car.	314,656	Mar. 31	2191	521	30	1225
Dodd, Alvin H., Hudson, N. Y. Shutter-worker.	316,131	Apr. 21	1606	449	31	304
Dodd, Alvin H., Hudson, N. Y. Shutter-worker.	319,205	June 2	325	87	31	1108
Dodd, John M., <i>et al.</i> (See Banta, William E., assignor.)						
Dodd, Robert H. C., <i>et al.</i> (See Miller, William C., assignor.)						
Dodd, Willis G., San Francisco, Cal. Crank-pin.	313,481	Mar. 10	617	160	30	900
Doddridge, Loyal M., assignor of one-half to L. J. Weatherwax, Stanton, Mich. Extension-table.	313,406	Mar. 3	513	134	30	873
Dodds, Alexander, Grand Rapids, Mich. Tail-stock for lathes.	310,260	Jan. 6	130	37	30	27
Dodds, Elihu. (See Chandler and Dodds.)						
Dodds, Joseph H. (See Dodds, Thomas, assignor.)						
Dodds, Thomas, assignor of one-half to J. H. Dodds, Cedartown, Ga. Motor.	313,188	Mar. 3	226	56	30	812
Dodge, Albert J., Peterborough, N. H. Fruit-drier.	331,328	Dec. 1	176	45	33	1029
Dodge, Alfred. (See Millet, John W., assignor.)						
Dodge, Alfred C., Charlotte, Mich. Combined truck and bag-holder.	330,684	Nov. 17	1670	450	32	841

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Dodge, Arthur C., Gardiner, assignor of one-half to A. W. Reynolds, Machias, Me. Car-brake	394,308	Aug. 11	1233	336	32	760
Dodge, Charles F., Pocahontas, Ill. Car-starter	315,258	Apr. 7	386	96	31	70
Dodge, Charles H., assignor of one-half to E. C. Boyle & Co., Augusta, Kans. Gage for tinner's shear-tables	318,883	May 26	9621	696	31	1037
Dodge, Edward L. (See Buchanan and Dodge.)						
Dodge, Ellis, Palmer, Mass. Machine for making insulator-clips	319,206	June 2	396	87	31	1109
Dodge, Frederick T., Carleton, New Brunswick, Canada. Combined adjustable chair, invalid-bed rest, and stretcher	327,775	Oct. 6	351	90.91	33	69
Dodge, J. Wesley, Malden, Mass. Mechanical movement	318,456	May 26	2041	551	31	925
Dodge, James, Newark, N. J. Machine for making claw-ends of hammers	326,632	Sept. 22	1881	493	32	1383
Dodge, James M., assignor, by mesne assignments, to A. H. and H. L. Andrews, Chicago, Ill. Stop-hinge. (Reissue)	10,637	Aug. 18	1896	521	32	892
Dodge, James M., assignor, by mesne assignments, to A. H. and H. L. Andrews, Chicago, Ill. Stop-hinge. (Reissue)	10,638	Aug. 18	1898	521	32	892
Dodge, James M., Philadelphia, Pa., assignor to Ewart Manufacturing Company, Chicago, Ill. Drive-chain	330,004	Nov. 10	790	203	33	650
Dodge, John C., New York, N. Y. Can-opener	324,012	Aug. 11	820	227	32	684
Dodge, John S., Mayersville, Miss. Vegetable-washer	322,429	July 21	1372	358	32	266
Dodge, Manly C., Charlotte, Mich. Type-writing machine	312,981	Feb. 24	2058	562	30	753
Dodge, Philip T., Washington, D. C., assignor to E. Remington & Sons, Ilion, N. Y. Type-writing machine	322,810	July 21	1877	497	32	357
Dodge, Theodore A., trustee. (See Shaler, Nathaniel S., assignor.)						
Dodge, Wallace H., Mishawaka, Ind. Device for transmitting power	320,544	June 23	2193	579	31	1470
Doda, John C., Philadelphia, assignor to H. W. Oliver, Jr., and J. P. Witberow, Pittsburg, Pa. Converter	328,841	Oct. 20	1749	456	33	335
Dodsworth, David, assignor of two-thirds to W. Legg and E. W. McMillen, Springfield, Ohio. Staple-driver	327,537	Oct. 6	47	10	33	10
Dodsworth, David, assignor of two-thirds to W. Legg and E. W. McMillen, Springfield, Ohio. Adjustable last	327,538	Oct. 6	48	11	33	10
Doe, Albin K. (See Durkee and Campbell, assignors.)						
Doebner, Oscar, Berlin, Prussia, and W. Von Miller, Munich, Bavaria, Germany. Formation of methoxy and ethoxy chinaldine	316,248	Apr. 21	1750		31	331
Doebner, Oscar, Berlin, Prussia, and W. Von Miller, Munich, Bavaria, Germany. Formation of the hydrobase of chinaldine	316,249	Apr. 21	1752		31	331
Doerfel, Max, assignor to C. F. Doerfel, Steinfelse, & Co., Klingenthal, Germany. Harmonica	331,949	Dec. 8	1043	271	33	1195
Doerfel, Steinfelse & Co., C. F. (See Doerfel, Max, assignor.)						
Doerr, Joseph C., St. Louis, Mo. Car-coupling	327,669	Oct. 6	469	122	33	83
Doetsch, Nicolaus, Detroit, Mich. Cigar-bunching tool	322,356	July 14	1271	332	32	241
Doetsch, Nicolaus, assignor of one-half to J. B. Klee, Detroit, Mich. Cigar-bunching tool	322,357	July 14	1271	332	32	241
Doetsch, Nicolaus, assignor of one-half to J. B. Klee, Detroit, Mich. Manufacturing cigars	325,062	Aug. 25	2262	621	32	966
Doherty, James, Goddard, N. Y. Fire-grate for stoves	312,261	Feb. 17	1096	303	30	567
Doherty, Henry. (See Talks, Henry, assignor.)						
Doherty, James G., Waterbury, Conn. Pendulum-level	313,292	Mar. 3	369	91	30	843
Doherty, John F. (See McDuff and Doherty.)						
Doherty, John H., San Francisco, Cal. Stove-pipe damper	323,568	Aug. 4	944	71	32	567
Doherty, Patrick J., Chelsea, Mass. Roller-skate	313,815	Mar. 10	1054	271	30	981
Dolbear, Amos E., Boston, Mass. Telephone system	325,650	Sept. 8	587	149	32	1131
Dolbear, Amos E., Boston, Mass. Increasing the efficiency of telephones	325,660	Sept. 8	588	149	32	1132
Dolbeer, John B., San Francisco, Cal. Apparatus for steaming piles	323,204	Dec. 29	2924	739	33	1524
Dolby, David H., Huntington, Ind. Wheel-barrow	321,2	June 30	3147	639	31	1654
Dolby, Thomas G. F., London, England. Sheet-metal can	321,482	Dec. 1	321	86.87	33	1035
Dole, Aladin, Penn's Grove, N. J. Bracket-clamp for steering-wheels	311,110	Jan. 20	1253	343	30	245
Dole, Walter N., et al. (See Brigham, Perry, assignor.)						
Dolge, Alfred. (See Dolge, Carl B., assignor.)						
Dolge, Carl B., Dolgeville, assignor to A. Dolge, New York, N. Y. Producing felt having a cross-section varying in thickness throughout its width	314,389	Mar. 24	1802	479	30	1138
Dolge, Carl B., Dolgeville, assignor to A. Dolge, New York, N. Y. Producing felted fabrics	314,809	Mar. 31	2410	637	30	1276
Dolge, Carl B., Dolgeville, assignor to A. Dolge, New York, N. Y. Manufacture of hair-faced wool felt	314,810	Mar. 31	2411	638	30	1276
Doll, Joseph H., Newark, N. J. Sleeve or collar button	319,467	June 9	674	181	31	1182
Dollison, Jasper, and J. Long, Salesville, Ohio. Combined bag-holder, scale, and truck	324,668	Aug. 18	1738	476	32	859
Dolman, John H., Albany, Tex. Surveyor's instrument	313,659	Mar. 10	847	220	30	944
Dom, Alexander, Mount Healthy, assignor to Globe Files Company, Cincinnati, Ohio. Letter-file	316,951	May 5	28	8	31	528
Dom, Alexander, Mount Healthy, assignor to Globe Files Company, Cincinnati, Ohio. Temporary binder	329,444	Nov. 3	22	7	33	509
Dom, Alexander, Mount Healthy, assignor to Globe Files Company, Cincinnati, Ohio. Newspaper-file	331,872	Dec. 8	928	240	33	1172
Domestic Electrical Manufacturing Company. (See Clarke, Charles L., assignor.)						
Domroe, Saul. (See Foley, John A., assignor.)						
Donadoni, Cesare, assignor to himself and Pohl, Berlin, Germany. Mechanical musical instrument	310,498	Jan. 6	427	118	30	82
Donaghy, Charles, Philadelphia, Pa. Brush-handle	330,005	Nov. 10	791	203	33	659
Donahue, Thomas, and W. W. Cone, assignors to Eagle Lock Company, Terryville, Conn. Machine for punching lock-plates	315,749	Apr. 14	1079	283	31	202
Donahue, Thomas, J. Roche, W. T. Goodwin, and W. W. Cone, assignors to Eagle Lock Company, Terryville, Conn. Lock	312,827	Feb. 24	1868	512	30	718
Donald, James, Glasgow, county of Lanark, Scotland. Washing-machine	312,917	Feb. 24	2061	563	30	753
Donaldson, George H., Westville Centre, N. Y. Folding coat-hanger	320,230	June 16	1720	457	31	1377
Donaldson, George W. (See Hunssey, Levi, assignor.) (Reissue.)						
Donaldson, John E., Montezuma, Ind. Fence-post	332,141	Dec. 8	1336	346	33	1244
Donaldson, John E., assignor of one-half to O. B. Price, Montezuma, Ind. Roofing-tile	322,917	July 28	2044	540	32	395
Donaldson, Robert B., Washington, D. C. Dental instrument	318,173	May 19	1666	447	31	847
Donaldson, Robert B., Washington, D. C. Dental instrument	322,265	July 14	1151	301	32	219
Donaldson, Robert B., Washington, D. C. Machine for barbing dental broaches, &c	327,437	Sept. 29	2991	782	32	1587
Donaldson, Walter H., San Francisco, Cal. Valve-gear	324,094	Aug. 11	929	256	32	703
Donaldson, B. F., et al. (See Bradford, John B., assignor.)						
Dondoro, Antonio. (See Ege, Frederick, assignor.)						
Donecker, Orin C., assignor to E. J. Schneck and G. H. Bear, Allentown, Pa. Wood-fluting mechanism	324,669	Aug. 18	1729	476	32	859

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Dougan, John B., <i>et al.</i> (See Lovett, John, assignor.)						
Doulon, John H. (See Whittier and Doulon.)						
Donn, W. C., <i>et al.</i> (See Kellogg, Charles, assignor.)						
Donn, Wilton C. (See Cuthbert, William M., assignor.)						
Donnan, William, Burgettstown, Pa. Flood-gate	321,697	July 7	385	103	32	72
Donneley, Adolph, Hamburg, Germany. Furnace for steam-boilers	323,124	July 28	2335	619	32	449
Donnell, Edward P., Chicago, Ill. Clutch for paper-cutting machines	313,482	Mar. 10	618	160 161	30	900
Donnell, William A., Greensburg, Ind. Revolving horse hay-rake	325,511	Sept. 1	400	98	32	1091
Donnelly, Henry, Sutherland Falls, Vt. Stone-dressing machine	332,999	Dec. 22	2535	668	33	1472
Donner, Frederick. (See Cook, William, assignor.)						
Donohue, Jerry. (See Reed and Donohue.)						
Donohue, Patrick J., Chicago, Ill. Sash-fastener	317,321	May 5	535	136	31	621
Donovan, David H. (See Briggs and Locke, assignors.)						
Donovan, Dennis. (See O'Hara, Lewis, assignor.)						
Donovan, George L., Meriden, assignor to A. C. Burghoff and G. S. Wilcox, Wallingford, Conn. Cutting-nippers	332,597	Dec. 15	1972	516	33	1362
Donovan, George L., Meriden, assignor to A. C. Burghoff and G. S. Wilcox, Wallingford, Conn. Nail-drawer	332,598	Dec. 15	1972	516	33	1362
Donovan, John, Boston, Mass. Smoke-consumer for furnaces	329,027	Oct. 27	2037	529	33	393
Donovan, Patrick C. (See Nelson and Donovan.)						
Doolittle, Andrew J., Hamden, Conn. Shutter and door bolt	319,207	June 2	327	87	31	1109
Doolittle, George. (See Laws, Albert D., assignor.)						
Doolittle, William B. (See Hermann and Doolittle.)						
Doolittle, William B., Chicago, Ill. Fire-escape	324,670	Aug. 18	1730	476 477	32	859
Doolittle, William E., New Haven, Conn. Hand-setting attachment for time-pieces	323,796	Aug. 4	530	150	32	623
Doolittle, William E., West Haven, assignor to New Haven Watch Company, New Haven, Conn. Enlargement-ring for watch-plates	311,297	Jan. 27	1530	416	30	302
Doolittle, William E., assignor to New Haven Watch Company, New Haven, Conn. Hand-setting mechanism for watches	323,795	Aug. 4	529	150	32	622
Doolittle, William H. (See Breitenmoser, Joseph, assignor.)						
Dooley, Martin H., Atlanta, Ga., and J. D. O'Callaghan, Chattanooga, Tenn. Car-axle box	323,645	Aug. 4	347	98	32	587
Doermann, Cuno, Anity, Iowa. Cultivator	320,051	June 16	1480	390 391	31	1334
Doremus, William T., Flatbush, N. Y. Draft, check, and other money orders	322,166	July 14	1036	269	32	197
Doremus, William T., Flatbush, N. Y. Check, draft, or other money-order	325,199	Aug. 25	2440	671	32	999
Dorey, Charles, Lock Haven, Pa. Photograph-burnisher	312,337	Feb. 17	1207	332	30	529
Dorfinger, William F. (See Brown, John A., assignor.)						
Doring, Ernst N., New York, N. Y. Folding bed	328,200	Oct. 13	899	233	33	171
Doriot, Victor, assignor of one-third to W. Webb, Bristol, Tenn. Brick-machine	333,288	Dec. 29	2941	769 770	33	1550
Dorman, Henry E., assignor of part to A. K. Roberts and J. L. Tuttle, Worcester, Mass. Sash-balance	321,284	June 30	3148	839	31	1654
Dorman, Royal O. (See Brown and Bradley, assignors.)						
Dormitzer, Anna, New York, N. Y. Window-cleaning chair	319,683	June 9	959	254 255	31	1234
Dorn, Gay. (See Scharnweber, William, assignor.)						
Dorn, N. A. (See Allen, Charles C., assignor.)						
Dorueck, Vesper, Indianapolis, assignor of one-half to W. H. Mahan, Princeton, Ind. Ventilator	323,300	July 28	2592	658	32	494
Dorr, Herbert C., assignor to Dorr Paint Company, San Francisco, Cal. Mixed paint	311,333	Dec. 1	178		33	1029
Dorr Paint Company. (See Dorr, Herbert C., assignor.)						
Dorr, Warren, Gardiner, Me. Car-coupling	319,208	June 2	328	87	31	1109
Dorrance, David W., Moore's Salt Works, Ohio. Log-turner	321,803	July 7	537	142	32	100
Dorrance, John, and G. L. Ebersole, Canton, Ohio. Subsoil-plow	329,028	Oct. 27	2038	529	33	393
Dorsett, Daniel H. (See Burdick, John R., assignor.)						
Dorsett, Daniel H., Chicago, Ill. Underground conduit	322,529	July 21	1513	399	32	291
Dorsey, Frederick, Hagerstown, Md. Machine for packing bran, &c.	320,052	June 16	1482	391	31	1334
Dorsey, Frederick, Hagerstown, Md. Wheat scouring and cleaning machine	322,700	July 21	1741	459	32	333
Dorsey, Timothy J., and M. S. McQuarrie, Walla Walla, Wash. Ter. Spittoon	319,468	June 9	675	181	31	1182
Dosch, Peter. (See Stndley and Dosch.)						
Doscher, Berend, Charleston, S. C. Rowing apparatus	314,001	Mar. 17	1317	344	30	1039
Dosh, Henry S., Baltimore, Md. Combined bed-bug trap and caster	317,322	May 5	536	136	31	621
Dost, Carl O., Ravensburg, Germany. Centrifugal reel	333,398	Dec. 29	3068	804 805	33	1575
Dotterweich, Andrew. (See Heintz and Dotterweich.)						
Doty, Albert J., assignor to Goodwin Gas Stove and Meter Company, Philadelphia, Pa. Heating gas-stove	331,950	Dec. 8	1044	271	33	1195
Doty, Charles W., <i>et al.</i> (See Waterman, Lyman, Jr., assignor.)						
Doty, Levi, Frankfort, Ill. Feed-box for animals	311,880	Feb. 10	550	151	30	459
Doty, William H., <i>et al.</i> (See Waterman, Lyman, Jr., assignor.)						
Doubleday, Abner D., Kalamazoo, Mich. Fence-post	310,600	Jan. 13	818	221	30	160
Doubleday, William C., Lima, Ohio. Folding crate	333,000	Dec. 22	2536	668	33	1473
Doubler, John W. H., Rockford, Ill. Bevel	316,341	Apr. 21	1969	494	31	351
Doubler, John W. H., Rockford, Ill. Chair	317,933	May 12	1341	1360	31	778
Doubler, John W. H., Rockford, assignor of one-half to M. Porter, Chicago, Ill. Lock	316,132	Apr. 21	1608	420	31	305
Donda, Frank C., New Castle, Pa. Injector	317,750	May 12	1096	288	31	731
Dougherty, Edward D. (See Bryant, George B., assignor.)						
Dougherty, Edward D. (See Bryant and Dougherty.)						
Dougherty, Edward D., Philadelphia, Pa. Slot-iron for cable railways	333,205	Dec. 29	2925	729	33	1529
Dougherty, Edward D., and G. B. Bryant, Philadelphia, Pa. Cross-tie for railways	320,231	June 16	1721	457	31	1377
Dougherty, Michael W. (See Schmitt and Dougherty.)						
Dougherty, Michael, Sedalia, Mo. Car-axle box	332,646	Dec. 15	2040	535	33	1375
Dougherty, Tiberias, assignor of one-half to T. J. Andress, Philadelphia, Pa. Shutter-fastener	319,209	June 2	328	88	31	1109
Doughton, Henry W. (See Darnell, David E., assignor.)						
Doughton, Andrew, Jerseyville, Ill. Filtering tank	320,545	June 23	2194	579	31	1470
Doughty, William H., New York, N. Y. Refrigeration for railway-cars, &c.	311,298	Jan. 27	1531	417	30	302
Dougne, James T., Chicago, Ill. Double-tree	310,801	Jan. 13	818	222	30	160
Dougne, James T., Chicago, Ill. Seat for wagons	310,802	Jan. 13	819	223	30	160
Dougne, James T., Chicago, Ill. Ditching and tile-laying machine	333,114	Dec. 29	2701	708 709	33	1507
Douglas, Archibald D. B., Seafield, Ardrossan, county of Ayr, Scotland. Safe	316,250	Apr. 21	1752	461	31	331

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Douglas Axe Manufacturing Company. (See Bowers, John W., assignor.)						
Douglas, James R. (See Hallett, William R., assignor.)						
Douglas, Joseph W., Middletown, Conn. Lever-shears	321,804	July 7	538	142	32	100
Douglas, William O., Binghamton, N. Y. Bridge	315,250	Apr. 7	387	96, 97	31	70
Douglasa, Anthony C., Washington, D. C. Operating compressed-air apparatus	315,013	Apr. 7	37	8	31	8
Douglasa, Elias B., Cortland, Ind. Stem winding and setting mechanism	325,594	Sept. 1	502	125	32	1111
Douglasa, George, Sioux City, Iowa. Vapor-generator for baths and bath apparatus	327,539	Oct. 6	49	11	33	10
Douglasa, John W. (See Brown, Douglass, and Pentreath.)						
Doulton, Henry, Lambeth, county of Surrey, and J. Slater, Burslem, county of Stafford, England. Ornamenting china and earthen ware and other pottery	314,002	Mar. 17	1319		30	1039
Doutney, George, Brooklyn, N. Y. Attachment for gas-cocks	319,396	June 2	561	152	31	1155
Dow, Alonzo, and L. H. Gorgas; said Dow assignor to H. Howard, Wooster, Ohio. Refrigerator-sideboard	316,608	Apr. 28	2237	589	31	425
Dow & Co. Brame. (See Jordan, William S., assignor.)						
Dow, Frank L., assignor to Frisbie & Starsfield, Camden, N. Y. Automatic belt-shifter	326,633	Sept. 22	1891	493	32	1383
Dow, George B. N., assignor of one-half to W. Corey, Manchester, N. H. Bracket	331,187	Nov. 24	2346	635	33	973
Dow, George E., San Francisco, Cal. Valve-gear for compound engines	330,397	Nov. 17	1301	345	33	769
Dow, George E., San Francisco, Cal. Compound steam-engine	330,398	Nov. 17	1303	346	33	769
Dow, Henry M. (See Griffiths, William H., assignor.)						
Dow, John B. (See Brown, Alfred, assignor.)						
Dow, Josiah, Lowell, Mass. Valve-cut-off mechanism	310,189	Jan. 6	40	11	30	10
Dow, Josiah, Lowell, Mass. Duplex-crank piston-pump	318,968	June 2	51	13, 14	31	1057
Dowden, Ashford T., Prairie City, Iowa. Potato-digger	316,015	Apr. 21	1439	375, 376, 377	31	274
Dowe, Percy E., Black River, N. Y. Chair	323,797	Aug. 4	531	150, 151	32	623
Dowell, Wesley, Hicksville, Ohio. Drilling-machine	320,053	June 16	1486	392	31	1336
Dowling, John, and J. Lee, Jr., Plymouth, Pa. Self-closing hydrant	330,776	Nov. 17	1793	463	33	863
Dowling, Patrick, et al. (See Kimball, Charles M., assignor.)						
Down, William. (See Bishop and Down.)						
Downend, Franklin L., Idaho Springs, Colo. Amalgamator	326,483	Sept. 15	1675	437	32	1339
Downer, Benjamin H., Buffalo, and C. A. Beach, Albany, N. Y. Car-coupling	311,730	Feb. 3	348	96	30	414
Downey, William, New York, N. Y. Awning	322,266	July 14	1152	301	32	219
Downey, William C., Springfield, Ohio. Grain-drill	315,260	Apr. 7	388	97	31	70
Downie, George, and A. F. Eisan, Marysville, Cal. Mill-stock feeder	320,054	June 16	1487	393	31	1335
Downie, George, and A. F. Eisan, Marysville, Cal. Mill-stock feeder	325,327	Sept. 1	129	36	32	1039
Downie, James L., and J. E. Hardin, Allegheny, Pa. Line-chalker and plumb-bob	316,530	Apr. 28	2138	502	31	406
Downing, James H., Aberdeen, Miss. Combined poke and muzzle	326,634	Sept. 22	1893	493	32	1383
Downing, James L., assignor of one-half to G. H. Wells, Richmond, Ill. Thrill-coupling	311,819	Feb. 3	459	125	30	435
Downing, Jerome F., Erie, Pa. Conveyor apparatus	310,393	Jan. 6	307	85	30	59
Downing, Jerome F., Erie, Pa. Conveyor apparatus	320,340	June 16	1896	499	31	1407
Downing, Jerome F., Erie, Pa. Carrier apparatus	328,660	Oct. 20	1528	397	33	292
Downing, Wellington, assignor to Brown Folding Machine Company, (limited.) Erie, Pa. Paper-folding machine	330,777	Nov. 17	1795	463, 464	33	863
Downing, William S., Half Moon Bay, assignor of one-half to G. H. Walker, San Francisco, Cal. Combined feed-rack and manger	310,261	Jan. 6	131	37	30	27
Downs, James W., Bowdon, Ga. Fertilizer and seed distributor	319,469	June 9	676	181, 182	31	1182
Downton, Robert L., St. Louis, Mo. Bolting-reel	322,358	July 14	1272	332	32	242
Dowse, W. B. H., trustee. (See Kauffer, Theodore L., assignor.)						
Dowson, Ralph, and J. Taylor, Bolton, county of Lancaster, England. Chemical fire-extinguisher	323,859	Aug. 4	612	172	32	638
Doty, Charles H., assignor of one-half to S. M. Lutman, Columbus, Ohio. Roller-skate	324,309	Aug. 11	1234	336	32	760
Doyle, Charles E., Peru, Ind. Press-copying book	333,061	Dec. 22	2615	685	33	1496
Doyle, Frank, Elgin, Ill. Feed-water heater for steam-boilers	314,521	Mar. 24	2008	535	30	1175
Doyle, John, Hoboken, N. J., assignor to himself, and C. C. Dusenbury, White Plains, N. Y. Rheostat	311,820	Feb. 3	460	125	30	435
Doyle, John, Hoboken, N. J., assignor to himself and C. C. Dusenbury, New York, N. Y. Rheostat	321,285	June 30	3149	840	31	1654
Doyle, John A., and T. L. Scenrman, Phillipsburg, Pa. Car-step	331,776	Dec. 8	794	201	33	1147
Doyle, Joseph P., Boston, and C. W. Stanley, Medford, Mass. Car-ventilator	321,346	June 30	3223	859	31	1669
Doyle, Michael V., assignor of one-half to C. E. Sovereign, Rockford, Ill. Machine for cutting washers	323,860	Aug. 4	614	173	32	639
Doyle, William, Albany, N. Y. Sand-molding machine for running riddled sand into molds for casting	312,963	Feb. 24	2069	563, 564	30	753
Dozois, Hilaire. (See Brant, Louis P., assignor.)						
Drader, Joseph, London, Ontario, Canada. Double-action hay-car	332,704	Dec. 22	2136	563	33	1397
Drais, Lawson, assignor of one-half to P. Drais, Washington Court-House, Ohio. Nose-ring	321,889	July 7	659	171	32	120
Drais, Peter. (See Drais, Lawson, assignor.)						
Drais, Peter, and A. Hegler, Washington C. H., Ohio; said Drais assignor to said Hegler. Device for ringing hogs	312,445	Feb. 17	1347	371	30	615
Drake, B. Frank, et al. (See Cram, Elisha S., assignor.)						
Drake, B. Frank, et al. (See Cram and Corvill, assignors.)						
Drake, Charles C., Trenton, N. J., assignor to American Automatic Lightning Arrester Company of New York. Telephone and telegraph protector. (Reissue.)	10,663	Nov. 24	2468	666	33	994
Drake, Charles M. (See Drake, Elbridge, and C. M.)						
Drake, Charles S., San Francisco, Cal. Automatic railway-switch	313,928	Mar. 17	1233	320, 321	30	1022
Drake, Chester T. (See Alsip and Drake.)						
Drake, Cunningham, Philadelphia, Pa. Sunshade and umbrella	312,446	Feb. 17	1348	372	30	615
Drake, Edward F., Miller's Falls, Mass. Milk bucket and stool	332,142	Dec. 8	1338	346	33	1244
Drake, Edward G. (See Lindenberg and Drake.)						
Drake, Elbridge and C. M., Gardiner, Me. Saw-mill dog	310,190	Jan. 6	41	12	30	10
Drake, Franklin J., Boston, Mass., assignor to Pope Manufacturing Company, Hartford, Conn. Velocipede-saddle	319,470	June 9	677	182	31	1183
Drake, John O., Fort Scott, Kans. Frying-pan	324,671	Aug. 18	1752	477	32	859
Drake, Lorenzo D., Nashville, Tenn. Wire-stretcher	332,240	Dec. 15	1473	384	33	1275
Drake, Nathan, and S. Feather, Bradford, county of York, England. Shuttle-guard for looms	331,117	Nov. 24	2244	610	33	955
Draper, Charley A., assignor of two-thirds to P. B. Bryant and E. Probst, Centralia, Ill. Buckle	326,279	Sept. 15	1421	370	32	1291
Draper, Edward P. (See Pattee, Richard, assignor.)						
Draper, James O., Pawtucket, R. I. Steam-boiler	312,447	Feb. 17	1348	372	30	616

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Draper & Son, George. (See Northrop, James H., assignor.)						
Draper & Sons, George. (See Campbell, Samuel R., assignor.)						
Draper & Sons, George. (See Carroll, William T., assignor.)						
Draper & Sons, George. (See Chase, Horace P., assignor.)						
Draper & Sons, George. (See Dickerson, George W., assignor.)						
Draper & Sons, George. (See Edmonds, Artemas B., assignor.)						
Draper & Sons, George. (See Fay, Rimmon C., assignor.)						
Draper & Sons, George. (See Roper, Charles F., assignor.)						
Draper & Sons, George. (See Speakman, Thomas H., assignor.)						
Draper & Sons, George. (See Thomas, Edward W., assignor.)						
Draper, William F., Hopedale, Mass. Bobbin-supporter for spooling-machines.....	315,488	Apr. 14	709	187	31	132
Draper, William F., Hopedale, Mass. Bearing for spindles.....	316,016	Apr. 21	1441	376	31	274
Draper, William F., Hopedale, Mass. Spindle and bearing.....	323,301	Oct. 13	900	324	33	171
Draver, Emil R., Stillwater, Minn. Centrifugal reel.....	326,901	Sept. 22	2286	598	32	1455
Draves, William A., Milwaukee, Wis. Drive-chain.....	317,103	May 5	227	57	31	565
Drawbaugh, George W., Eberly's Mill, Pa., assignor to People's Telephone Company, of New York. Telephone-transmitter.....	316,883	Apr. 28	2635	687	31	497
Drawbaugh, George W., Eberly's Mill, Pa., assignor to People's Telephone Company, of New York. Telephone-transmitter.....	317,445	May 5	706	177	31	651
Drayton, Benjamin A., New York, N. Y. Fan-holder.....	319,890	June 9	1252	330	31	1285
Drayton, Benjamin A., New York, N. Y. Bird-cage.....	319,891	June 9	1252	330	31	1286
Dredge, John A. (See Morningstar, Andrew, assignor.)						
Dreher, Baptist, Cleveland, Ohio. Rack or holder for music and books.....	333,647	Dec. 15	2041	535	33	1375
Dreifus, Emanuel, et al. (See Vogel, John B., assignor.)						
Dressel, George C., New York, N. Y. Signal lantern.....	313,303	Mar. 3	388	96	30	847
Dressel, George C., New York, N. Y. Lantern.....	314,657	Mar. 31	2192	581	30	1235
Dresser, Chester H., New York, N. Y. Corking and filling machine.....	312,446	Feb. 17	1350	372 } 373 }	30	616
Drew, Christopher, A. W. Leisner, and P. Nelson, Las Vegas, N. Mex. Ter. Harrow.....	310,499	Jan. 6	428	118	30	83
Drew, Henry P., New York, N. Y. Cock for gas and water fittings.....	311,630	Feb. 3	253	70	30	396
Drew, Henry P., New York, N. Y. Jointed gas and lamp bracket.....	322,167	July 14	1037	269	32	197
Drew, Henry P., New York, N. Y. Cock for gas, steam, &c., fittings.....	325,224	Sept. 8	823	206	32	1173
Drew, Henry P., New York, N. Y. Faucet.....	325,825	Sept. 8	824	206	32	1173
Drew, James W., Nichols, Conn. Fork-guard.....	330,824	Nov. 17	1853	500	33	874
Drew, Walter J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweeper.....	329,374	Oct. 27	2542	655	33	483
Drew, William E., et al. (See Whitney, Edwin R., assignor.)						
Drewett, John W., New York, N. Y. Fountain attachment for pens.....	318,706	May 26	2378	634	31	985
Dreyer, Herman H., assignor of one-half to J. H. H. Uthoff, Genoa, Ohio. Device for opening and closing furnace-doors.....	313,304	Mar. 3	389	96	30	847
Dreyer, Herman H., assignor of one-half to J. H. H. Uthoff, Genoa, Ohio. Furnace-door.....	316,884	Apr. 28	2636	687	31	498
Dreyer, Rosenkranz & Droop. (See Rosenkranz and Prophet, assignors.)						
Dreyfus, J. R. (See Graves, John, assignor.)						
Drifhill, Frederick, assignor to H. J. Bressles, Sterling, Ill., and G. A. Reynolds, Toledo, Ohio. Roller-skate.....	316,342	Apr. 21	1871	495	31	361
Driggs, Arthur W., Brooklyn, N. Y. Railway-car.....	330,825	Nov. 17	1855	500	33	874
Driggs, Jehiel C., Newark, N. J. Shutter-worker.....	324,969	Aug. 25	2171	594	32	948
Drodzowski, Julius R. (See McConnell, John, assignor.)						
Drodzowski, Julius R., and J. McConnell, Erie, Pa. Printer's quoin.....	326,484	Sept. 15	1676	438	32	1339
Droege, Ignatius, Jr., Toledo, Ohio. Wire-fastening device for fence-posts.....	322,359	July 14	1273	332	32	242
Dromgold, Walker A. (See Hensch and Dromgold.)						
Dronne, Constant, Port Richmond, N. Y. Weeding-tool.....	317,523	May 12	808	207	31	678
Drown, Aaron, South Barton, Vt. Cant-hook.....	324,095	Aug. 11	930	257	32	703
Drown & Co., William A. (See Plumb, Hiram, assignor.)						
Drown, William A., Weldon, Pa. Parasol.....	333,062	Dec. 22	2616	686	33	1486
Ducker, Nathan, Cincinnati, Ohio. Caster.....	327,147	Sept. 29	2615	681	32	1521
Drum, Cornelius, and W. Wyker, assignors to said Drumm and J. M. Stewart, Jefferson City, Mo. Spring take-up for wax for the sewing-machines.....	320,857	June 23	2587	685	31	1545
Drummond, David D., Chicago, Ill., assignor of one-half to R. A. Drummond. Device for conveying and precipitating dust arising from wood-working machinery. (Reissue.).....	10,568	Mar. 10	1097	285	30	989
Drummond, Robert A. (See Drummond, David D., assignor.) (Reissue.).....						
Drummond, Thomas, Norwich, Conn. Steam-boller.....	322,701	July 21	1743	460	32	333
Drummond, Willis, Jr. (See Lindsley, Aaron L., assignor.)						
Drury, Edgar B. (See Goundry and McLeod, assignors.)						
Dry, James R., London, England. Treatment of flax, &c.....	314,921	Mar. 31	2564	.....	30	1303
Du Bois, Frederick N., New York, N. Y. Machine for making lead traps.....	321,955	July 14	752	197	32	145
Du Bois, Joseph, Waverly, N. Y. Portable anchor-fence.....	311,065	Jan. 20	1188	326	30	324
Du Bois, Joseph, Waverly, N. Y. Gate.....	311,066	Jan. 20	1189	326	30	324
Du Bois, Joseph, Waverly, N. Y. Fence.....	331,285	Dec. 1	43	10	33	1007
Du Bois, Josiah S., Camden, N. J. Conduit for electric wires.....	314,568	Mar. 31	2074	554	30	1214
Du Bois, Josiah S., Camden, N. J. Dynamo-electric machine.....	318,094	May 19	1563	419	31	826
Du Bois, N. Greenard, assignor of one-half to F. R. Malmey, Brooklyn, N. Y. Commode.....	319,892	June 9	1253	331	31	1285
Du Bois, N. Greenard, assignor of one-half to F. R. Malmey, Brooklyn, N. Y. Railway-switch.....	330,826	Nov. 17	1856	501	33	875
Du Bose, Benjamin J., Lisbon, Ga. Grinding-mill.....	332,143	Dec. 8	1339	346	33	1244
Du Shane, James, South Bend, Ind. Automatic cut-out for electric apparatus.....	312,985	Feb. 24	2067	564	30	754
Du Shane, James, South Bend, Ind. Secondary battery.....	320,232	June 16	1722	457	31	1377
Du Shane, James, South Bend, Ind. Electric lamp.....	326,487	Sept. 15	1679	438 } 439 }	32	1340
Du Shane, James, South Bend, Ind. Wrench.....	331,188	Nov. 24	2347	635	33	973
Du Shane, James, South Bend, Ind. Rapid-transit wrench.....	331,189	Nov. 24	2348	635	33	973
Dubail, Mounin, Frossard et Cie. (See Frossard, Joseph, assignor.)						
Dubbs, Edgar J. (See Dikken, Frank, assignor.)						
Dubola, Alexandre N., Philadelphia, Pa. Dyeing aniline-black.....	331,777	Dec. 8	795	.....	33	1148
Dubreuil, George A. (See Gornall, Richard, assignor.)						
Ducker, William M., Brooklyn, N. Y. Combined match-box and cigar-cutter.....	323,025	July 28	2207	583	32	423
Ducker, William M., New York, N. Y. Combined match-box and cigar-cutter.....	323,026	July 28	2209	584	32	423
Ducker, William M., New York, N. Y. Spring for boxes, &c.....	323,027	July 28	2210	584	32	424
Ducker, William M., New York, N. Y. Combined match-box and cigar-cutter.....	323,028	July 28	2211	584	32	424
Ducker, William M., New York, N. Y. Combined match-box and cigar-cutter.....	323,029	July 28	2212	584	32	424
Ducker, William M., New York, N. Y. Cigar-cutter.....	331,384	Dec. 1	179	45	33	1029
Dudgeon, Richard. (See Weeks, John, assignor.)						
Dudgeon, Richard. (See Weeks and Traver, assignors.)						
Dudley, Adolphus S. (See Carpenter and Dudley.)						
Dudley, Andrew J., North Anson, assignor to B. Moore, Anson, Me. Steam cooking-vessel.....	311,821	Feb. 3	461	125	30	435

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Dudley, Charles, Linwood, N. J. Tube-expander.....	333,206	Dec. 29	2826	739	83	1529
Dudley, Elizabeth P. (See Carpenter and Dudley, assignors.)						
Dudley, Ellwood F., Philadelphia, Pa. Hay-rack.....	327,926	Oct. 6	546	143	33	98
Dudley, John W., Portland, Oreg. Piston-rod packing.....	334,096	Aug. 11	930	257	32	703
Dudley, Martin, Marion, Ohio. Panel picket-fence.....	328,392	Oct. 13	1159	299	33	219
Dudley, Plimmon H., New York, N. Y. Railway-sleeper.....	327,667	Oct. 6	228	56	33	41
Dudley, Russell G., Jersey City, N. J., assignor to Dudley Shutter Worker and Burglar Alarm Company, New York, N. Y. Shutter-worker.....	315,393	Apr. 7	560	145	31	101
Dudley, Russell G., Jersey City, N. J., assignor to Dudley Shutter Worker and Burglar Alarm Company of New York. Shutter-worker.....	318,421	May 19	1995	537	31	907
Dudley Shutter Worker and Burglar Alarm Company. (See Dudley, Russell G., assignor.)						
Dudley Shutter Worker and Burglar Alarm Company of New York. (See Dudley, Russell G., assignor.)						
Dueber, John C., Newport, Ky. Watch-case center. (Reissue).....	10,566	Mar. 3	598	153	30	888
Duell, Charles H. (See Hey, George W., assignor.)						
Duell, Frank S., Abington, Mass. Wrench.....	331,951	Dec. 8	1045	271	33	1195
Duennisch, Louis, Sandusky, Ohio. Flue-cleaner.....	331,691	Dec. 1	673	166	33	1117
Duff Manufacturing Company. (See Barrett, Josiah, assignor.)						
Duff Manufacturing Company. (See Barrett, Josiah, assignor.) (Reissue.)						
Duffner, Matthew, et al. (See Watts, Henry P., assignor.)						
Duffy, Charles G., Utica, N. Y. Gas-pipe holder.....	312,193	Feb. 10	1005	274	30	542
Duffy, James, Quincy, Ill. Grate.....	329,375	Oct. 27	2544	656	33	484
Duffy, Thomas W., New York, N. Y., assignor to New York Steam Company, of New York. Expansion-joint for steam and other pipes.....	311,178	Jan. 27	1354	371	30	270
Duffy, Thomas W., Medford, Mass., assignor to Wainwright Manufacturing Company, Portland, Me. Purifying water.....	314,003	Mar. 17	1319	344	30	1039
Dufrane, John L., Rockford, Ill. Shears.....	326,455	Sept. 15	1678	438	32	1339
Dufuf, Hubert, Holyoke, Mass. Razor-guard.....	311,067	Jan. 20	1190	327	30	234
Dugan, Michael, Brandt, Pa. Belt-tightener.....	318,707	May 26	2379	634	31	985
Dugdale, James K., Richmond, Ind. Washing-machine.....	328,471	Oct. 20	1261	328	33	245
Duggan, John A., Quincy, Mass. Railway-switch.....	330,878	Nov. 24	1929	523	33	896
Duguay, George A., Montreal, Quebec, Canada. Box.....	316,447	Apr. 28	2039	534	31	387
Duisberg, Carl, Barmen, Prussia, Germany. Coloring-matter obtained from tetrazo-ditolyl.....	329,632	Nov. 3	2-3		33	559
Duisberg, Carl, Barmen, Prussia, Germany. Coloring-matter obtained from tetrazo-ditolyl.....	329,633	Nov. 3	2-4		33	559
Duke, John H., Jr., Grand Rapids, Mich. Paving sidewalks.....	320,858	June 23	25-8	685	31	1546
Duke, Joseph, Glastonbury, county of Somerset, England, assignor to H. Symons. Composition for purifying gas.....	316,609	Apr. 28	2238		31	425
Duke, Orman A., Clanton, Ala. Lumber-drier.....	332,241	Dec. 15	1473	384	33	1275
Dukes, Aaron N. (See Hull, Nicholas A., assignor.)						
Dulaney, Henry S. (See Lindsey, George M., assignor.)						
Duliner, Granville S. (See Finley, Jonas J., assignor.)						
Dull, Daniel. (See Keys, Frank W., assignor.)						
Dumke, August C. and A. F., Manitowoc, Wis. Automatic safety stop-motion.....	331,689	Dec. 1	670	166	33	1116
Dumke, August F. (See Dumke, August C. and A. F.)						
Dumler, Andrew P. (See Mulvaney, John, assignor.)						
Dummer, Paul E. (See Malmstrom and Dummer.)						
Dumont, James H., New York, N. Y. Filter.....	316,885	Apr. 28	2637	687	31	498
Dumoulin, Adrien J. A., assignor to Compagnie des Fives Lille, Paris, France. Apparatus for kneading and elevating doughlike, &c., matter.....	329,376	Oct. 27	2545	656	33	484
Dump, Jacob, Chillicothe, Ohio. Vehicle-hub.....	321,424	July 7	16	4	32	6
Dun, Alfred, Frankfort-on-the-Main, Germany. Galvanic element.....	312,339	Feb. 17	1209	333	30	588
Dun, Alfred, Frankfort-on-the-Main, Germany. Apparatus for emptying and charging galvanic elements.....	312,340	Feb. 17	1210	333	30	588
Dunbar, Camillus, Glenwood, and J. A. Rector, Lancaster, Mo. Weather-boarding gage.....	323,661	Oct. 20	1529	398	33	293
Dunbar, Frank M., Titusville, Pa. Hektograph-gage.....	323,115	Dec. 29	2704	709	33	1508
Dunbar, John H., assignor to Clement & Dunbar, Philadelphia, Pa. Ice-cream freezer.....	317,446	May 5	707	178	31	651
Dunbar, Jnnias H., assignor of one-half to A. Welsh, H. W. Squire, and F. Brown, Youngstown, Ohio. Nail-plate feeder.....	328,822	Oct. 20	1801	469	33	343
Dunbar, R. R. (See Wilcox, William R., assignor.)						
Dunbar, Warren, Minneapolis, Minn. Automatic pressure-regulator for air-brakes.....	316,017	Apr. 21	1442	376	31	274
Dunbar, William, Larrabee, Pa., assignor of one-half to J. J. Newman, Buffalo, N. Y. Elger.....	311,423	Jan. 27	1705	464	30	333
Duncan, James, Coshocton, Ohio. Coal-scuttle.....	325,595	Sept. 1	504	125	32	1111
Duncan, James, assignor to himself, W. W. Bostwick, and F. C. Hay, Coshocton, Ohio. Bench-plane.....	315,014	Apr. 7	38	8	31	9
Duncan, John P. and E. D. Pillow, Helena, Ark. Poison-distributor.....	321,011	June 30	2801	745	31	1591
Duncan, Joseph M. (See Hayes, Martin P., assignor.)						
Duncan, Joseph M., Warsaw, N. Y. Manufacture of salt.....	321,347	June 30	3223	850	31	1669
Duncan, Joseph M., assignor to himself and E. O. McNair, Warsaw, N. Y. Furnace-grate.....	321,890	July 7	660	171	32	120
Duncan, Joseph M., assignor to himself and E. O. McNair, Warsaw, N. Y. Salt-hopper.....	322,360	July 14	1274	333	32	242
Duncan, Martin B., Angelica, N. Y. Horse block or step.....	323,646	Aug. 4	348	99	32	587
Dundas, Charles D., North Auburn, Nebr. Bridge.....	320,859	June 23	25-9	685	31	1546
Dunfee, James W., assignor of one-half to J. E. Mertz, Roundhead, Ohio. Rotary engine.....	317,751	May 12	1099	288	31	731
Dungan, William H., Rock Lane, Ind. Harrow.....	318,095	May 19	1564	419	31	827
Dunham, Charles L., assignor of one-third to E. G. Diefendorf, Union City, Pa. Pipe-wrench.....	332,191	Dec. 8	1394	360	33	1254
Dunham, George, assignor to C. B. Anderson, Unionville, Conn. Die for cutting hexagonal nuts.....	324,756	Aug. 18	1843	507	32	881
Dunham Hosiery Company. (See Brothers, Alphonso H., assignor.)						
Dunham, Ira R., Newark, N. J. Ear-ring.....	324,757	Aug. 18	1845	508	32	881
Dunham, Joseph S., Salem, N. Y. Shutter-fastener.....	326,426	Sept. 15	1679	438	32	1340
Dunham, Joseph T., Brooklyn, N. Y. Envelope.....	331,118	Nov. 24	2244	610	33	955
Dunham, Sumner T. (See Averell, John D., assignor.)						
Dunkerly, Walter, Providence, R. I. Fan attachment for rocking furniture.....	326,727	Sept. 22	2041	531	32	1412
Dunkin, John M. (See Fletcher, Dunkin, Hanhart, and Trautmann.)						
Dunklau, William F. C., Chicago, Ill. Game apparatus.....	324,462	Aug. 18	1439	393	32	805
Dunlap, John S., Peoria, Ill. Stool-pedestal.....	320,916	June 30	2675	710	31	1568
Dunlap, John S., assignor to E. Gale, Peoria, Ill. Show-case stand.....	323,192	Dec. 8	1395	361	33	1255
Dunlap, Thomas, Toledo, Ohio. Propulsion of vessels.....	327,927	Oct. 6	547	143	33	98
Dunn, Daniel J., West Fitchburg, Mass. Automatic stove-damper.....	312,449	Feb. 17	1353	373	30	617
Dunn, George, Middletown, Ohio, assignor to himself and Rice, Barton & Fales Machine and Iron Company, Worcester, Mass. Felt-cleaning apparatus.....	319,567	June 9	808	215	31	1206
Dunn, George, Middletown, Ohio, assignor of one-half to Lobdell Car Wheel Company, Wilmington, Del. Calendering-roll.....	324,758	Aug. 18	1846	508	32	881

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Dunn, George H., Greensburg, Ind. Bill-file.	331,043	Nov. 24	2135	579	33	935
Dunn, George W. (See Watts, Daniel B., assignor.)						
Dunn, Henry F., Eagle Lake, Tex. Gate.	331,778	Dec. 8	796	201	33	1148
Dunn, J. Paris, New York, N. Y. Signaling apparatus for railways.	315,394	Apr. 7	561	145	31	101
Dunn, John, Jacksonville, Fla., assignor to himself and A. A. Howlett, Syracuse, N. Y. Dumping-scow.	315,918	Apr. 14	1312	341 342	31	943
Dunn, Michael F., Pullman, Ill. Folding and portable wardrobe.	329,445	Nov. 3	23	7	33	504
Dunn, Patrick, Côte St. Paul, Quebec, Canada, and T. Harris; said Dunn assignor to C. French, Seymour, Conn. Barbed-wire-fence nail.	324,310	Aug. 11	1235	336	32	760
Dunn, Sola B., Chicago, Ill. Box-fastener.	313,857	Mar. 17	1121	291	30	1002
Dunn, Sola B., Chicago, Ill. Temporary binder.	330,967	Nov. 24	2050	554	33	919
Dunn, William, assignor to C. B. McQuesten, New York, N. Y. Car-coupling.	315,015	Apr. 7	40	8	31	9
Dunn, William J., Chicago, Ill. Combined collar-button and scarf-holder.	311,881	Feb. 10	551	151	30	459
Dunn, William W., Fort Worth, Tex. Water-wheel.	317,934	May 12	1342	361	31	778
Dunning, Eugene. (See Stone, William H., assignor.)						
Dunning, Robert A. (See Given and Dunning.)						
Dunning, Robert A., Bath, Me. Box-loop.	316,448	Apr. 28	2041	535	31	367
Dunning, Samuel H., Paterson, N. J. Exhaust mechanism for locomotives.	318,708	May 26	2379	635	31	965
Dunshee, Carlos E., Chicago, Ill. Lumber-plier.	321,348	June 30	3226	859 860	31	1670
Dunten, Edgar H. (See Inaley and Dunten.)						
Dunwoody, Grant, Peoria, Iowa. Washing-machine.	318,709	May 26	2320	635	31	966
Duperow, Mortimer, Washington, D. C. Telegraphic service system.	332,193	Dec. 8	1396	361	33	1255
Duplex Printing Press Company. (See Cox, Joseph L., assignor.)						
Dupont, Leandre E., Farnham, Quebec, Canada. Trunk-lock.	314,522	Mar. 24	2009	536	30	1175
Dupont, Philippe D., Summerville, Vt. Fork-forming machine.	312,984	Feb. 24	2066	564	30	754
Dupont, Philippe D., Summerville, Vt. Fork-pointing machine.	315,395	Apr. 7	565	146	31	102
Dupont, Philippe D., Summerville, Vt. Fork-prong-rolling machine.	315,396	Apr. 7	567	146	31	102
Duprat, Dosthée, Ste. Scholastique, Quebec, Canada. Car-axle lubricator.	320,968	Nov. 24	2051	555	33	919
Dupret, Jean B., Brussels, Belgium. Compound for waterproofing boots, shoes, &c.	323,402	Aug. 4	94		32	527
Dupuis, Eugene. (See Morlet and Dupuis.)						
Dupuis, George A., Detroit, Mich. Fish-line stake.	311,068	Jan. 20	1191	327	30	234
Durand, Albert A., New York, N. Y. Breast-pump.	331,952	Dec. 8	1046	271	33	1195
Durand, David L., Derby, Conn. Lamp-burner.	313,713	Mar. 10	913	238	30	957
Durand, David L., Derby, Conn. Suspender-buckle.	330,627	Nov. 17	1858	501	33	675
Durand, David L., Derby, assignor to Osborne & Cheesman Company, Ansonia, Conn. Lamp-burner.	315,919	Apr. 14	1314	342	31	944
Durand, David L., Derby, assignor to Osborne & Cheesman Company, Ansonia, Conn. Suspender-buckle.	331,690	Dec. 1	672	166	33	1116
Durand, Louis, Ticonderoga, N. Y. Dough-kneader.	326,023	Sept. 8	1064	271 272	32	1218
Durand, Wallace, Newark, N. J. Button.	328,602	Oct. 20	1531	398	33	293
Durant, Edward G., Racine, Wis., assignor of one-half to T. Kane, Chicago, Ill. Opera-chair.	323,301	July 28	2593	688	32	494
Durborow, Henry C., Indianapolis, Ind. Supporting-bracket for spouts, pipes, &c.	329,223	Nov. 3	542	138	33	606
Durden, Gus M., Birmingham, Ala. Car-replacer.	327,072	Sept. 29	2505	654	32	1502
Durfee, Edgar, et al. (See Sturges, David, assignor.)						
Durfee, William F., Bridgeport, Conn. Hydraulic jack for cranes.	323,403	Aug. 4	26	7	32	598
Durfee, William F., Bridgeport, Conn. Valve.	323,404	Aug. 4	28	8	32	598
Durgin, Henry J. (See Copeland and Durgin.)						
Durgin, Henry J., Rochester, N. Y. Table-rail tenoning and grooving machine.	311,822	Feb. 3	463	126	30	436
Durham, John H., assignor of one-half to L. C. Moore, Chicago, Ill. Shipping-case for photographic dry-plates.	331,385	Dec. 1	120	45	33	1030
Durham, John W., and W. B. Alexander, Decatur, Tex. Bedstead-brace.	323,453	Dec. 29	8156	895	33	1587
Durkee, George B. (See Golding and Durkee.)						
Durkee, George B., assignor to W. Haight, Chicago, Ill. Machine for covering hose with wire.	318,457	May 26	2042	552	31	925
Durkee, George B., Chicago, Ill., and A. Campbell, Hamilton, Ontario, Canada, assignors of one-third to A. K. Doe, Chicago, Ill.; said Durkee assignor remaining right to said Campbell and Doe. Book-binding machine.	330,303	Nov. 10	1173	312 313 314	33	738
Dürkoop, John, Brunswick, Germany. Churn.	323,861	Aug. 4	616	173	32	639
Duross, Patrick F., and G. Sutton, Long Island City, N. Y. Car-coupling.	317,961	May 19	1416	380	31	800
Durr, John F., Green Island, N. Y. Spring-bed.	323,116	Dec. 29	2705	709	33	1508
Durrant, George W., et al. (See Poage, James H., assignor.)						
Durston, Warren A., Hersey, Wis. Saw-mill dog.	315,133	Apr. 7	191	47	31	35
Durst, Murray H., Wheatland, Cal. Baling-press.	331,873	Dec. 8	929	240	33	1179
Duryea, Wright, Brooklyn, N. Y. Apparatus for drying starch, &c.	312,341	Feb. 17	1212	333 334	30	589
Duryea, Wright, Brooklyn, N. Y. Apparatus for drying the by-products of starch-manufacture and other vegetable matters.	312,342	Feb. 17	1215	334	30	589
Duryea, Wright, Brooklyn, assignor to Glen Cove Manufacturing Company, Glen Cove, N. Y. Starch-depositing plane.	320,430	June 16	2038	535	31	1433
Duryea, Wright, Brooklyn, assignor to Glen Cove Manufacturing Company, Glen Cove, N. Y. Starch-depositing plane.	320,431	June 16	2039	535	31	1433
Dusenbury, C. Coles. (See Doyle, John, assignor.)						
Dusy, Frank, and A. McCall, Selma, Cal. Dirt-scraper.	320,055	June 16	1487	392 393	31	1335
Dutcher, Frank J., assignor to Hopedale Machine Company, Hopedale, Mass. Speeder for spinning.	332,194	Dec. 8	1398	361	33	1255
Dutcher Temple Company. (See French and Gifford, assignors.)						
Dutkaiek, Moses, Muskegon, Mich. Lumber-trimmer.	326,635	Sept. 22	1883	494	32	1393
Dutton, Edward E., assignor of one-half to J. R. Atwood, Natick, Mass. Last.	312,568	Feb. 17	1513	412	30	645
Dutton, James H. (See Dutton, Joseph and J. H.)						
Dutton, Joseph and J. H., San Francisco, Cal. Safety-key for gas-burners.	322,648	Dec. 15	2042	536	33	1375
Dutton, Leander K., Oskaloosa, Iowa. Washing-machine.	313,407	Mar. 3	514	135	30	873
Dutton, Rufus, and R. Eickemeyer, Yonkers, N. Y. Harvester.	312,450	Feb. 17	1354	373 374 375	30	617
Duval, John L., Houston, Tex. Bale-ejector for baling-presses.	314,523	Mar. 24	2010	536	30	1175
Duval, Reid M., Nashville, Tenn. Hedge.	313,406	Mar. 3	515	135	30	873
Duxbury, John W., et al. (See Wright, E. Howard, assignor.)						
Duxbury, Yates, Jr., Over Darwen, county of Lancaster, assignor to A. P. Dickinson, Blackburn, England. Winding-on motion for machines for taping, slashing paper, &c.	316,343	Apr. 21	1872	495	31	351
Dwigans, James, Tipton, Iowa. Hay rake and loader.	321,489	July 7	107	29	32	22

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Pages.
Dwight, E. E., <i>et al.</i> (See Houlehan, James, assignor.)						
Dwight, George, Jr. (See Atwood and Slate, assignors.)						
Dwight, George S. (See Lillienberg and Dwight.)						
Dwight, William M., Detroit, Mich. Exhaust-fan	318,884	May 26	2622	696	31	1028
Dwight, William M., Detroit, Mich. Planing and matching machine	329,824	Nov. 3	544	138	33	606
Dwyer, Daniel, Marshall, Tex. Life-boat	320,341	June 16	1898	500	31	1407
Dwyer, Patrick V., St. Paul, Minn. Furnace	330,969	Nov. 24	2052	555	33	919
Dyer, George F., Chelmsford, Mass. Picture-exhibitor	321,425	July 7	17	4	32	6
Dyblie, Julius A., Cummings, Ill. Shutter-worker	310,566	Jan. 13	523	143	30	106
Dydynski, Leonard, Buena Vista, Ohio. Burial-vault	325,826	Sept. 8	825	206	32	1174
Dye, Charles H., Illinois Bend, Tex. Cotton-picker's sack	316,344	Apr. 21	1874	496	31	352
Dye, Henry B., Marquette, Mich. Bar or plate for elliptic springs	315,920	Apr. 14	1315	342	31	244
Dye, Henry B., Marquette, Mich. Vehicle-spring	315,921	Apr. 14	1315	342	31	244
Dye, Robert W., Oskaloosa, Iowa. Combined feed rack and trough	329,029	Oct. 27	2039	529	33	393
Dyer, Aaron G. and J. M., San Francisco, Cal. Rock-crusher	310,656	Jan. 13	634	175	30	126
Dyer, Aaron G. and J. M., San Francisco, Cal. Rock-crusher and pulverizer	311,235	Jan. 27	1437	392	30	285
Dyer, Edward F., Alvarado, Cal. Manufacture of beet-sugar	319,077	June 2	179		31	1081
Dyer, Frederick N. (See Booth and Dyer.)						
Dyer, George W., <i>et al.</i> (See Hess, Godfrey, assignor.)						
Dyer, Henry C., St. Louis, Mo. Machine for sorting feathers	320,342	June 16	1899	500	31	1406
Dyer, James M. (See Dyer, Aaron G. and J. M.)						
Dyer, Lucius. (See Young and Dyer.)						
Dyer, Richard N., <i>et al.</i> (See Stieringer and Vall, assignors.)						
Dyer, Richard N., assignor to Commercial Telegram Company, New York, N. Y. Printing-telegraph	332,649	Dec. 15	2043	536	63	1375
Dyer, Samuel J., Brooklyn, N. Y. Razor	328,202	Oct. 13	901	234	33	171
Dymond, Joshua H., assignor to himself and W. W. Dymond, Carbondale, Kans. Car-coupling	325,900	Aug. 25	2441	671	32	999
Dymond, William W. (See Dymond, Joshua H., assignor.)						
Dyott, Charles G. (See Dyott, Michael B. and C. G.)						
Dyott, Michael B. and C. G., Philadelphia, Pa. Gas or vapor burner	326,550	Sept. 22	1763	{ 461 462 }	32	1363
Dysart, John T., Shippensburg, Pa. Oxyhydrocarbon heat and fuel economizing apparatus	315,489	Apr. 14	710	187	31	132
Dysinger, Jesse H., Flushing, Mich. Combined feed-rack and stall	319,568	June 9	809	216	31	1206
Dysinger, William H., Royalton, N. Y. Grain-drill	331,229	Nov. 24	2405	651	33	963
Dyson, Job, and C. W. Cookson, New Britain, Conn. Carding-machine for the manufacture of mottled rovings	310,803	Jan. 13	820	222	30	161
Dyson, Robert. (See Owen and Dyson.)						
Eagan Mathew, Cleveland, Ohio. Carbon-cutting machine	323,125	July 28	2336	620	32	449
Eager, Henry. (See Eager, James W. and H.)						
Eager, James H. L. (See Streett, James R., assignor.)						
Eager, James W. and H., Syracuse, N. Y. Four-edge-tin-folding machine	339,149	Oct. 27	2909	572	33	423
Eagle Cotton Gin Company. (See Gammons, Ferdinand C., assignor.)						
Eagle Lock Company. (See Donahue and Cone, assignors.)						
Eagle Lock Company. (See Donahue, Roche, Goodwin, and Cone, assignors.)						
Eagle Lock Company. (See Plumb, Henry B., assignor.)						
Eagle Pencil Company. (See Boman, Clara W., assignor.)						
Eagle Pencil Company. (See Bramberg, Charles, assignor.)						
Eagle Pencil Company. (See Kraus, Samuel, assignor.)						
Eagle Pencil Company. (See Walpuaki, Charles, assignor.)						
Eagle Tube Company. (See Stephens and Ritchie, assignors.)						
Eagleston, Joseph and W., assignors of one-third to W. M. Sells, Franklin County, Ohio. Belt-hanging device	319,803	June 9	1135	301	31	1265
Eagleston, William. (See Eagleston, Joseph and W.)						
Eames, Alfred W., <i>et al.</i> (See Kizer, Isaac H., assignor.)						
Eames, Charles J., New York, N. Y. Method of and apparatus for enriching and burning water-gas	311,967	Feb. 10	688	188	30	483
Eames, Charles J., New York, N. Y. Cremation-furnace	331,779	Dec. 8	797	202	33	1148
Eames, Charles J., assignor to Carbon Iron Company, New York, N. Y. Making wrought-iron direct from iron ores	318,551	May 26	2189		31	950
Eames, Charles J., assignor to Carbon Iron Company, New York, N. Y. Manufacturing iron sponge, wrought and steely irons directly from the ore	318,552	May 26	2190		31	950
Eames, Charles J., assignor to Carbon Iron Company, New York, N. Y. Manufacturing sponge and wrought-iron directly from the ore	318,553	May 26	2192		31	950
Eames, Charles J., assignor to Carbon Iron Company, New York, N. Y. Hearth and lining of graphite for metallurgic furnaces	318,554	May 26	2193	586	31	950
Eames, Charles J., assignor to Carbon Iron Company, New York, N. Y. Deoxidizing iron ore	318,605	May 26	2246		31	961
Eames, Charles J., assignor to Carbon Iron Company, New York, N. Y. Reducing iron ore	318,606	May 26	2249		31	961
Eames, Charles J., assignor to Carbon Iron Company, New York, N. Y. Manufacturing wrought and steely iron direct from the ore	318,607	May 26	2250		31	961
Eames, Charles J., assignor to Carbon Iron Company, New York, N. Y. Furnace for the manufacture of sponge, wrought-iron, and steely iron direct from the ore	318,608	May 26	2252	602	31	961
Eames, Elisha D., Watertown, N. Y. Hose or tubing	314,440	Mar. 24	1892	505	30	1156
Eames, Frank M. (See Esleek and Eames.)						
Eames, George M., Bridgeport, Conn. Straightening needles, wire, &c	331,386	Dec. 1	181	45.46	33	1030
Eames, Henry H., Philadelphia, Pa. Apparatus for chloridizing gold, silver, and other ores	332,705	Dec. 22	2137	{ 563 564 }	33	1398
Eames, Hiram W., Milford, Mass. Glazier's point	330,828	Nov. 17	1859	502	33	875
Eames, William S., St. Louis, Mo. Trimmer-arch	322,047	July 14	876	227	32	162
Eargle, John J. (See Keith, Stephen P., assignor.)						
Earrhuff, John G., and R. Alden, Chicago, Ill. Reed-organ mute	326,551	Sept. 22	1765	462	32	1364
Earl, Charles N., and H. T. Hazard, Los Angeles, Cal. Pipe and drain-tile mold	310,850	Jan. 13	888	241	30	174
Earl, Ebenezer J., Charlotte, Mich., assignor of one-half to O. N. Lambert, Elkhart, Ind. Combined truck and bag-holder	321,286	June 30	3150	840	31	1655
Earl, Jesse P. (See Myers, George A., assignor.)						
Earle, Edward J. V. (See Pierce, John, assignor.)						
Earle Manufacturing Company, T. K. (See Arnold, Oliver, assignor.)						
Earles, John H., Denver, Colo. Car-coupling	324,013	Aug. 11	822	{ 227 228 }	32	684
Early, William J., assignor to Jones & Laughlins, (limited), Pittsburg, Pa. Apparatus for molding pulleys	323,302	July 28	2595	{ 688 689 }	32	495
Earnshaw, Charles W., Boston, Mass. Sales-book. (Reissue.)	10,619	July 7	722	149	32	131
Earth, Levi, Chicago, Ill. Hoisting and conveying apparatus	325,328	Sept. 1	131	36.37	32	1040

Alphabetical list of patentees—Continued.

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Easley, Levi, Whitt, Tex. Cotton and corn planter	316,018	Apr. 21	1444	377	31	975
Easley, Levi, Whitt, Tex. Corn-planter	325,400	Sept. 1	950	63	32	1063
Eason, George L., assignor of one-half to R. I. Scott, Des Moines, Iowa. Harness attachment	390,546	June 23	2195	580	31	1470
Eastern Paper Bag Company. (See Appel, Daniel, assignor.)						
Eastman Dry Plate and Film Company. (See Bannister, Willis A. and L. H., assignors.)						
Eastman Dry Plate and Film Company. (See Eastman and Walker, assignors.)						
Eastman Dry Plate and Film Company. (See Walker and Eastman, assignors.)						
Eastman, Duncan K., Charlestown, N. H. Car-coupling	318,969	June 2	55	14	31	1058
Eastman, George. (See Walker and Eastman.)						
Eastman, George, and W. H. Walker, assignors, by mesne assignments, to Eastman Dry Plate and Film Company, Rochester, N. Y. Photographic-film holder	316,952	May 5	30	9	31	598
Eastman, George H. (See Grime, John, assignor.)						
Eastman, Jerome B., Cleveland, Ohio. Combined railway signal and alarm	328,301	Oct. 13	1023	985	33	194
Eastman, John F. Triumph, Ill. Wagon-jack	324,543	Aug. 18	1546	427	32	825
Eastman, John P., Chicago, Ill. Continuous mileage-ticket	314,170	Mar. 17	1539	{ 402 403 }	30	1079
Eastman, Rufus M., assignor of one-half to C. H. Wilder, Boston, Mass. Mixer for creams, eggs, and liquors	330,829	Nov. 17	1860	502	33	876
Eastman, William E., Boston, Mass. Car-ventilator	396,411	Sept. 15	1588	{ 413 414 }	32	1323
Easton, David T. (See Akerly and Easton.)						
Eastwick, Edward P., New York, N. Y. Top plate for bone-black kilns	316,610	Apr. 28	2239	590	31	425
Eastwick, Edward P., New York, N. Y. Bone-black drier	390,642	June 23	2322	{ 613 614 }	31	1493
Eaton, Ambrose C. (See Eaton, David H. and A. C.)						
Eaton, Asahel K., Brooklyn, N. Y. Preparing the elements of storage-batteries	311,236	Jan. 27	1439	399	30	285
Eaton, Charles. (See White, George, assignor.)						
Eaton, Charles E., Chelsea, Mass. Fan attachment	322,530	July 21	1514	399	32	291
Eaton, David H. and A. C., Waverly, N. Y. Reshipping butter-pail	322,267	July 14	1153	301	32	219
Eaton, Fred, Conway, N. H. Folding dish-drainer	329,150	Oct. 27	2210	573	33	423
Eaton, George H., North Middleborough, Mass. Apparatus for detecting the presence of gas	331,119	Nov. 24	2246	610	33	955
Eaton, Hiram A., Manchester, Me. Steam-cooker	310,657	Jan. 13	635	175	30	127
Eaton, John F. (See Eaton, Thomas W., assignor.)						
Eaton, Thomas W., Chicago, assignor of one-half to J. F. Eaton, Cambridge, Ill. Opera-chair	329,151	Oct. 27	2211	573	33	423
Eaton, Thomas W., Chicago, assignor of one-half to J. F. Eaton, Cambridge, Ill. Opera-chair	329,292	Oct. 27	2411	626	33	462
Eaton, William A. (See Slater and Eaton.)						
Eaves, Lewis. (See Bates, Lafayette, assignor.)						
Ebaugh, Charles S., St. Louis, assignor of one-tenth to C. D. Moody, Webster Groves, Mo. Treating steam-boilers for preventing fractures and explosions	329,446	Nov. 3	24	7	33	509
Ebaugh, David C., Charleston, S. C. Rock-pulverizer	312,343	Feb. 17	1217	{ 334 335 }	30	589
Ebel, John V., assignor of two-thirds to H. F. Voigt, T. L. E. Ortmann, J. W. Albertson, J. W. Patterson, and J. O. C. Campbell, Pittsburg, Pa. Glass-furnace	310,804	Jan. 13	822	223	30	161
Eberhard, Eli L., et al. (See Sprinkle, George E., assignor.)						
Eberhard, George F., Cleveland, Ohio. Harness-terret	330,685	Nov. 17	1672	450	33	841
Eberhard, John G., Akron, Ohio. Bridle-bit	324,821	Aug. 25	1941	533	32	906
Eberhard, John G., Akron, Ohio. Harness-trimming	313,169	Mar. 3	927	56	30	218
Eberhard, William, assignor to himself and G. T. Ford, Akron, Ohio. Grain-cutting machine	313,483	Mar. 10	619	161	30	901
Eberhardt, Henry E. (See Eberhardt, Ulrich and H. E.)						
Eberhardt, Henry E., Newark, N. J. Friction-coupling	311,179	Jan. 27	1356	{ 371 372 }	30	270
Eberhardt, Ulrich and H. E., Newark, N. J. Drilling-machine	321,196	June 30	3041	806	31	1634
Eberhardt, Ulrich and H. E., Newark, N. J. Chip-clearer for gear-cutting machines	321,698	July 7	386	103	32	73
Eberhardt, Ulrich and H. E., Newark, N. J. Gear-cutter	332,064	Dec. 8	1212	{ 316 317 }	33	1294
Eberhart, Lloyd, and I. D. Stevens, Joliet, Ill. Broadcast seed-sower	316,019	Apr. 21	1445	377	31	275
Eberhart, Lloyd, and I. D. Stevens, Joliet, Ill. Check-roller attaching-iron	329,725	Nov. 3	404	{ 103 104 }	33	522
Eberhart, Lloyd, assignor of one-half to I. D. Stevens, Joliet, Ill. Seeding-machine	332,506	Dec. 15	1829	480	33	1338
Eberle, Charles R. (See Thompson and Eberle.)						
Eberle, Josef, Vienna, Austria-Hungary. Preparation of lithographic printing-surfaces	316,251	Apr. 21	1753	.....	31	331
Ebersole, George L. (See Dorrance and Ebersole.)						
Ebersole, John M., Canton, Ohio. Flag	330,099	Nov. 10	919	238	33	626
Ebert, Oscar C. (See Gillick, Peter, assignor.)						
Ebl, Edward, Cedar Rapids, Iowa. Knottor for grain-binders	323,126	July 28	2337	{ 620 621 }	32	449
Elbeter, John J., St. Gall, Switzerland. Embroidering-machine	331,953	Dec. 8	1047	272	33	1195
Eby, Walton E., Franklin, Ohio. Steam-pump	330,571	Nov. 17	1532	410	33	813
Eccles, John R., Waterford, N. Y. Ice-elevator mechanism	312,616	Feb. 24	1523	433	30	667
Eccles, Nicholas, assignor to R. & N. Eccles, Auburn, N. Y. Die for fifth-wheel heads	312,822	Feb. 24	1870	512	30	719
Eccles, R. & N. (See Eccles, Nicholas, assignor.)						
Eccleston, Noyes B., Oxford, N. Y. Car-coupling	320,767	June 23	2475	655	31	1525
Eckert, Peter. (See Buckley, John P., assignor.)						
Echols, James L., et al. (See Schnell, Adam, assignor.)						
Echols, James M. (See Rogers, John A., assignor.)						
Eckersley, James. (See Davies and Eckersley.)						
Eckert, Edward A. (See Eckert, Seely, and Eckert.)						
Eckert, John C., Dayton, Ohio. Combined gage and center-square	329,892	Nov. 10	639	163	33	631
Eckert, William H., J. A. Seely, and E. A. Eckert, Cincinnati, Ohio, assignors to American Bell Telephone Company, Boston, Mass. Electric cable	313,305	Mar. 3	391	96, 97	30	847
Eckert, William H., J. A. Seely, and E. A. Eckert, Cincinnati, Ohio, assignors to American Bell Telephone Company, Boston, Mass. Combined telephone-receiver and circuit-breaker	313,409	Mar. 3	516	135	30	873
Eckert, William H., J. A. Seely, and E. A. Eckert, New York, N. Y., assignors to American Bell Telephone Company, Boston, Mass. Hanger for electric cables	313,410	Mar. 3	518	136	30	874
Eckhardt, Jacob, St. Louis, Mo. Vegetable-cutter	323,127	July 28	2340	621	32	450
Eckles, James, and J. P. Frow, Butler, Mo. Churn	327,928	Oct. 6	548	143	33	98
Eckles, Myra L., Northfield, Minn. Riding-saddle	320,118	June 16	1576	416	31	1350
Economist Plow Company. (See Margedant, William C., assignor.)						
Economist Plow Company. (See Meagher and Tower, assignors.)						
Economy Halter and Bridle Trimming Company. (See Simpson, Hatcher, and Wildermuth, assignors.)						
Eddington, William R., Woodburn, Ill. Key-board attachment for musical instruments	326,412	Sept. 15	1591	414	32	1334

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Eddington, William R., Woodburn, Ill. Mole-trap	331,483	Dec. 1	322	87	32	1055
Eddington, William R., Woodburn, Ill. Mechanical key-board attachment for pianos and organs	336,413	Sept. 15	1593	414	32	1324
Eddison, George W., New York, N. Y. Fire-extinguishing compound	327,929	Oct. 6	549		32	98
Eddy, Ezra B., G. H. Millon, and E. Mousseau, Hull, Québec, Canada. Apparatus for dipping matches	313,064	Mar. 3	37	10	30	785
Eddy, Frank N., et al. (See Westgate, Joseph D., assignor.)						
Eddy, George W., New London, Conn. Window-curtain roller	310,658	Jan. 13	637	176	30	127
Eddy, Oscar H., Greenwich, N. Y. Harrow	332,706	Dec. 22	2138	564	33	1398
Eddy, Walden, Greenwich, N. Y. Potato-digger	318,236	May 19	1749	565	31	962
Ede, Simeuel. (See Lux and Ede.)				467		
Eden, John T., Odell, Nobr. Wind-wheel	330,804	Nov. 10	1177	314	33	738
Edenborn, William, St. Louis, Mo. Barbed fence-wire	313,929	Mar. 17	1236	321	30	1022
Edenborn, William, St. Louis, Mo. Barb-wire machine	330,686	Nov. 17	1672	451	33	841
Edgar, Dennis P., Jackson, Mich. Car-coupling	311,651	Feb. 3	254	452		
Edgar, Joseph M., Argentine, Kans., assignor to J. Z. Roraback, Kansas City, Mo. Seal-lock	325,661	Sept. 8	589	70	30	396
Edge, Isaiah J., Minneapolis, Minn. Implement for catching flies, &c.	322,268	July 14	1154	150	32	1132
Edge, John S., Bryan, Tex. Machine for building and rerolling wire fences	323,303	July 28	2597	302	32	219
Edge, William C., Newark, N. J. Scarf-pin, &c.	316,090	Apr. 21	1446	669	32	495
Edge, William C., Newark, N. J. Metallic fabric	324,014	Aug. 11	823	377	31	275
Edge, William C., Newark, N. J. Metallic fabric	324,015	Aug. 11	824	228	32	824
Edge, William C., Newark, N. J. Chain	324,016	Aug. 11	825	228	32	824
Edge, William C., Newark, N. J. Metallic fabric	321,044	Nov. 24	2136	579	33	935
Edgerton, Edward E., Chicago, Ill. Anti-friction bearing for roller-skates	318,237	May 19	1750	468	31	862
Edison Electric Company. (See Johnson, Edward H., assignor.)						
Edison Electric Light Company. (See Andrews, William S., assignor.)						
Edison Electric Light Company. (See Edison, Thomas A., assignor.)						
Edison, Thomas A., Menlo Park, N. J. Commutator for dynamo-electric machines	328,572	Oct. 20	1396	363	33	269
Edison, Thomas A., Menlo Park, N. J. System of electric lighting	328,573	Oct. 20	1397	364	33	270
Edison, Thomas A., Menlo Park, N. J. System of electric lighting	328,574	Oct. 20	1399	364	33	270
Edison, Thomas A., Menlo Park, N. J. System of electric lighting	328,575	Oct. 20	1400	364	33	270
Edison, Thomas A., Menlo Park, N. J. Telephone	329,030	Oct. 27	2040	530	33	393
Edison, Thomas A., Menlo Park, N. J. Telegraphy	333,289	Dec. 29	2945	770	33	1551
Edison, Thomas A., Menlo Park, N. J. Duplex telegraphy	333,290	Dec. 29	2948	770	33	1551
Edison, Thomas A., Menlo Park, N. J. Way-station quadruplex telegraph	333,291	Dec. 29	2950	771	33	1552
Edison, Thomas A., Menlo Park, N. J., and P. Kenny, New York, N. Y. Chemical stock-quotations telegraph	314,115	Mar. 17	1464	389	30	1066
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Incandescent electric lamp	317,631	May 12	945	242	31	792
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Incandescent electric lamp	317,632	May 12	946	243	31	703
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Incandescent electric lamp	317,633	May 12	947	243	31	703
Edmonds, Artemas B., assignor to G. Draper & Sons, Milford, Mass. Spinning-machine	317,323	May 5	536	136	31	622
Edmiston, John F., Edmistonville, N. C. Cotton-seed planter and cultivator	310,191	Jan. 6	42	137	30	11
Edmonds, Abraham. (See Krichewski and Edmonds.)						
Edmonds, Charles L. (See Barnes, Andrew N., assignor.)						
Edmonds, Elijah L., Daysville, Ill. Railway-alarm	322,430	July 21	1373	359	32	267
Edmonds, Walter D. (See Divine, Frederick D., assignor.)						
Edmonson, Thomas J., et al. (See Massey, John W., assignor.)						
Edmonds, George, et al. (See Bartels, William H., assignor.)						
Edmonds, Henry, London, England, and C. T. Howard, Providence, R. I. Telephone-toll system	327,073	Sept. 29	2506	654	32	1502
Edmonds, P. J. (See Crocker, John H., assignor.)				655		
Edmundson, Joseph E., deceased, Athens, Ohio; M. Edmundson, administratrix. Dentifrice	315,750	Apr. 14	1060		31	203
Edmundson, Margaret, administratrix. (See Edmundson, Joseph E.)						
Edsall, William H., Brooklyn, N. Y. Extension-bracket for curtain-poles	311,237	Jan. 27	1440	393	30	285
Edson, George W. W., Stow, Mass. Fly-trap	325,163	Aug. 25	2383	656	32	988
Edson, Jacob, Boston, Mass. Spring vibrating chair	316,021	Apr. 21	1447	377	31	275
Edson, Julius T., assignor of one-half to H. W. White, Cleveland, Ohio. Fibrous-pulp roofing-tile	310,192	Jan. 6	43	13	30	11
Edwards, Benjamin J., London, county of Middlesex, England. Apparatus for coating photographic plates	314,811	Mar. 31	2412	638	30	1277
Edwards, Charles, Paris, France. Purifying metals	314,004	Mar. 17	1321	344	30	1039
Edwards, Charles H., Quincy, Mass. Dumping-scow	327,870	Oct. 6	470	123	33	83
Edwards, David, et al. (See Brandt, Louis, assignor.)						
Edwards, Eaton A., Fort Meade, Dak. Ter. Anemometer	315,261	Apr. 7	390	97	31	71
Edwards, Eugene M., Hancock, N. Y. Bamboo fishing-rod	330,572	Nov. 17	1534	410	33	813
Edwards, Evan A., Los Angeles, Cal. Oil-burner	314,922	Mar. 31	2565	678	30	1303
Edwards, Evan A., Los Angeles, Cal. Flame-deflector for vapor-burners	314,923	Mar. 31	2566	678	30	1303
Edwards, George B. (See Richardson, Allister M., assignor.)						
Edwards, Jesse S. (See Baer and Edwards.)						
Edwards, Luther R., Franklin, Va. Peanut-cleaner	312,617	Feb. 24	1585	434	30	668
Edwards, Madison, et al. (See Massey, John W., assignor.)						
Edwards, Oliver H., assignor, by mesne assignments, of one-half to F. H. McCoun, New York, N. Y. Stop-motion for knitting-machines	311,238	Jan. 27	1441	393	30	285
Edwards, Oliver H., assignor, by mesne assignments, of one-half to F. H. McCoun, New York, N. Y. Attachment for stop-motions of knitting-machines	324,097	Aug. 11	931	257	32	704
Edwards, Robert, New York, N. Y. Electrical annunciator	324,369	Aug. 18	1316	357	32	783
Edwards, S. L. (See Morris, James K., assignor.)						
Edwards, William, Glendive, Mont. Ter. Implement for cleaning machinery	323,502	Aug. 4	157	47	32	552
Edwards, William F., Covington, Ga. Cotton-gin rib	310,193	Jan. 6	44	13	30	11
Edwards, William R., et al. (See Jerrold, John E., assignor.)						
Edwards, William R., and F. J. Schults, Milwaukee, Wis. Valve for steam-boilers	321,197	June 30	3046	806	31	1635
Edy, James N., et al. (See Smith, Thomas, assignor.)				807		
Edy, William D., et al. (See Smith, Thomas, assignor.)						
Efferts, Peter, Chemnitz, Saxony, Germany. Gas-compressor	329,726	Nov. 3	405	104	33	582
Egan, John F. (See Holmes and Egan.)						
Egan, William, Purdon, Tex. Umbrella	318,710	May 26	2381	635	31	966

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Ege, Alexander H. (See Richardson, John T., assignor.)						
Ege, Alexander H. (See Walters, Charles D., assignor.)						
Ege, Frederick, assignor of one-half to A. Doudero, Detroit, Mich. Top-support for carriages	311,731	Feb. 3	350	97	30	415
Egells, Hermann, Berlin, Germany. Constructing lead vessels	310,500	Jan. 6	429	118	30	83
Egerton, Benjamin I. <i>et al.</i> (See Jernagan, Alexander J., assignor.)						
Egerton, Charles C., Baltimore, Md., assignor to O. J. Flagg. Carriage-standard	312,618	Feb. 24	1586	434	30	688
Egge, Frederick, Bridgeport, Conn. Permutation-padlock	316,345	Apr. 21	1874	496	31	352
Egge, Frederick, assignor to Smith & Egge Manufacturing Company, Bridgeport, Conn. Overseaming-machine	324,672	Aug. 18	1733	477	32	860
Egge, Frederick, assignor to Smith & Egge Manufacturing Company, Bridgeport, Conn. Metal chain	330,214	Nov. 10	1062	977	33	715
Egge, Frederick, and C. J. A. Sjöberg, assignors to Smith & Egge Manufacturing Company, Bridgeport, Conn. Button-hole attachment for sewing-machines	322,811	July 21	1879	498	32	357
Eggemann, Godfrey S., Toledo, Ohio. Trunk	318,174	May 19	1667	447	31	847
Eggert, Harry B., Bethlehem, Pa. Combined cigar-cutter and match-box	313,660	Mar. 10	848	220	30	945
Eggert, William, trustee. (See Hammerstein, Oscar, assignor.)						
Eggert, William, trustee. (See Williams, John R., assignor.)						
Eggleston, Charles H., Marshall, Mich. Drive-chain	322,431	July 21	1374	359	32	267
Egleston, Thomas, New York, N. Y. Method of and compound for preserving stone	323,128	July 23	2341		32	450
Egner, Frederic, St. Louis, Mo. Furnace for manufacturing illuminating-gas	315,751	Apr. 14	1081	294	31	203
Egner, Frederic, St. Louis, Mo. Apparatus for the manufacture of illuminating-gas	326,488	Sept. 15	1681	439	32	1340
Egner, Frederic, St. Louis, Mo. Apparatus for making illuminating-gas	331,621	Dec. 1	571	139	33	1098
Ehbets, Carl J., assignor to Colts Patent Fire Arms Manufacturing Company, Hartford, Conn. Safety-lock for fire-arms	311,732	Feb. 3	351	97	30	415
Ehbets, Carl J., assignor to Colts Patent Fire-Arms Manufacturing Company, Hartford, Conn. Magazine fire-arm	316,761	Apr. 28	2469	644	31	467
Ehbets, Carl J., assignor to Colts Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine fire-arm	318,711	May 26	2382	636	31	986
Elm, Henry, Brooklyn, N. Y. Bed-lounge	319,310	June 2	329	88	31	1109
Ehrenfeld, Charles, Pasadena, Cal. Wire-screen stretcher	324,673	Aug. 18	1735	478	32	860
Ehrenfechter, Julius. (See Schilling and Ehrenfechter.)						
Ehrst, Michael, Jr., Philadelphia, Pa. Manufacture of tarred paper	312,451	Feb. 17	1361	375	30	618
Ehrlich, Leo, St. Louis, Mo. Device to assist hearing	311,180	Jan. 27	1358	372	30	270
Ehrlich, Leo, St. Louis, Mo. Bottle-stopper	322,702	July 21	1743	460	32	333
Ehrlich, Leo, St. Louis, Mo. Chair	327,668	Oct. 6	231	56	33	41
Ehrlich, Leo, St. Louis, Mo. Bicycle	327,669	Oct. 6	231	57	33	41
Ehrlich, Leo, St. Louis, Mo. Letter-box	329,293	Oct. 27	2416	686	33	462
Ehrlich, Leo, St. Louis, Mo. Electrical alarm for letter-boxes	329,294	Oct. 27	2417	687	33	462
Ehrlich, Paul, Gohla, near Leipzig, Saxony, Germany. Music-sheet for mechanical musical instruments	310,501	Jan. 6	430	118	30	83
Ehrman, Samuel, assignor of one-half to H. C. Huston, Connellville, Pa. Combined latch and lock	328,393	Oct. 13	1160	299	33	219
Eichelberg, Leopold, Heidelberg, Germany. Coffin	310,262	Jan. 6	132	38	30	27
Eichler, John H. (See Regan, Daniel S., assignor.)						
Eickemeyer, Rudolf. (See Dutton and Eickemeyer.)						
Eickemeyer, Rudolf, Yonkers, N. Y. Hat-block chuck	317,104	May 5	228	57	31	565
Eickemeyer, Rudolf, Yonkers, N. Y. Machine for planing the folded or curled edges of hat-brims	317,324	May 5	538	137	31	622
Eickemeyer, Rudolf, Yonkers, N. Y. Machine for setting the folded or curled edges of hat-brims	331,286	Dec. 1	44	10	33	1007
Eickemeyer, Rudolf, Yonkers, N. Y. Setting the folded or curled edges of hat-brims	332,509	Dec. 15	1973	516	33	1368
Eickershoff, John H. (See Krieger and Eickershoff.)						
Eickhoff, August. (See Kramer and Eickhoff.)						
Eidelbach, Andrew C., Flatonia, Tex. Saw-sharpening machine	318,363	May 19	1921	518	31	894
Einfieldt, Emil, Davenport, Iowa. Key and key-seat	319,078	June 2	180	48	31	1081
Eisan, Albert F. (See Downie and Eisan.)						
Eisely, John G., Philadelphia, Pa. Ornamental comb	323,798	Aug. 4	533	151	32	623
Eisenbach, Albert, Philadelphia, Pa. Commode	331,120	Nov. 24	2247	611	33	955
Eisenberg, Israel H., New York, N. Y. Adjusting device for flouring-mill rolls	322,432	July 21	1374	359	32	267
Eisenhardt, Christopher, assignor to H. H. C. W., and J. S. Diseton, Philadelphia, Pa. Handle for crosscut-saws	327,776	Oct. 6	353	91	33	62
Eisenhart, Charles A., York, Pa. Electrical attachment for dental chairs	326,957	Sept. 29	2364	618	32	1477
Eisenhart, Charles A., York, Pa. Electrical apparatus for dental operations	331,121	Nov. 24	2248	611	33	955
Eisenhart, Edward H., New York, N. Y. Preparing yarn or thread for filling	325,241	Sept. 1	12	4	32	1017
Eisenhart, Edward H., New York, N. Y. Manufacturing filling for rag carpets	325,242	Sept. 1	13	5	32	1017
Eisenhart, Edward H., New York, N. Y. Apparatus for measuring the length of fabrics	327,540	Oct. 6	49	11, 12	33	10
Eisenhower, Frank B. (See Eisenhower, Jonathan, assignor.)						
Eisenhower, Jonathan, assignor to F. B. Eisenhower, Philadelphia, Pa. Mold-box for paving and other blocks	312,629	Feb. 24	1871	519	30	719
Eisenstein, Toba. (See Roggen and Eisenstein.)						
Eisner, Joseph, Baltimore, Md. Drawers, overalls, and pantaloons	317,662	May 19	1417	380	31	800
Eisner, Joseph, Baltimore, Md. Pantaloons, drawers, or overalls	323,580	Aug. 4	245	72	32	567
Eising, Max, New York, N. Y. Ring-holder	331,780	Dec. 8	799	202	33	1148
Eisler, Marcus, assignor to M. Swoboda, New York, N. Y. Suspenders	311,111	Jan. 20	1254	343	30	245
Eissner, Frederick, New York, N. Y. Thermometer	320,119	June 16	1577	416	31	1350
Eitel, Henry, and J. E. Hunt, San Francisco, Cal. Device for raising and lowering window-sashes	312,262	Feb. 17	1097	303	30	567
Ekkhard, Emil. (See Bormann and Ekkhard.)						
Ekholm, Frans O., Chicago, Ill. Gun-carriage	318,238	May 19	1751	468	31	862
Ekholm, Frans O., Chicago, Ill. Gun-carriage	318,239	May 19	1752	468	31	863
Ekman, Axel F., Austin, Tex. Washing-machine	321,699	July 7	388	103	32	72
Ela, Edgar W. (See Ela, Jonathan C. and E. W.)						
Ela, Jacob, Indianapolis, Ind. Spark-arrester	316,022	Apr. 21	1448	378	31	976
Ela, Jonathan C. and E. W., Boston, Mass. Screen	329,833	Nov. 10	639	163	33	632
Elam, William E., Americus, Ga. Ticket-case	331,424	Dec. 1	323	87	33	1055
Elam, William E., Americus, Ga. Ticket-case	331,425	Dec. 1	324	88	33	1056
Elam, Willoughby P., Dubuque, Iowa. Grain-drill	325,512	Sept. 1	401	98	32	1092
Elcock, Alfred, <i>et al.</i> (See Westgate, Joseph D., assignor.)						
Elden, Charles E., Malden, assignor to American Bell Telephone Company, Boston, Mass. Electrical apparatus protector	329,152	Oct. 27	2213	573	33	423

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Elder, Cornelius D., Osage, Iowa. Cream-transportation tank. (Reissue)	10,643	Sept. 1	569	144	32	1132
Elder, John S., <i>et al.</i> (See Collins, Stephen, assignor.)						
Elder, William, Fort Coeur d'Alene, Idaho Ter. Oscillating steam-engine	324,098	Aug. 11	933	257	32	704
Eldredge, Alonzo W., Big Rapids, Mich. Dental engine	313,411	Mar. 3	519	136	30	874
Eldredge, Lloyd O. (See Macomber, Sanford W., assignor.)						
Eldredge, William A. (See Chegwin and Eldredge.)						
Eldridge, Charles A., <i>et al.</i> (See Vaughn and Eldridge, assignors.)						
Eldridge, Edward D. (See Vaughn and Eldridge.)						
Eldridge, Edward E., <i>et al.</i> (See Vaughn and Eldridge, assignors.)						
Eldridge, Frank N. (See Eldridge, Joseph W. and F. N.)						
Eldridge, Henry, Toronto, Ontario, Canada. Feather-renovator	324,463	Aug. 18	1440	304	32	806
Eldridge, Joseph W. and F. N., Stuart, Iowa. Adjustable railway frog and switch combined	312,619	Feb. 24	1586	434	30	668
Electric Appliance Company. (See White, Le Roy S., assignor.)						
Electric Automatic Instructor Company. (See Gates, Waldo L., assignor.)						
Electric Fare Register Company. (See Seales, Edward A., assignor.)						
Electric Manufacturing Company. (See Pratt, Robert J., assignor.)						
Electrical Accumulator Company. (See Shaw, William A., assignor.)						
Electrical and Mechanical Developing Company. (See Cutten, Elisha B., assignor.)						
Electrical Appliance Manufacturing Company. (See White, Le Roy S., assignor.)						
Electrical Power Storage Company. (See Philippart, Simon, fils, assignor.)						
Electrical Power Storage Company. (See Swan, Joseph W., assignor.)						
Electro Dynamic Light Company of New York. (See Sawyer and Man, assignors.)						
Elevator Safety and Motor Company. (See Anderson and Reed, assignors.)						
Elford, Alfred T., San Francisco, Cal. Paving-block	329,825	Nov. 3	545	138	33	606
Elford, Alfred T., San Francisco, Cal. Device for flushing sewers	322,333	Dec. 15	1591	417	33	1297
Elford, William, Oakland, Cal. Portable house	323,030	July 28	2813	585	32	424
Elgin National Watch Company. (See Corlies, Charles P., assignor.)						
Elgin National Watch Company. (See Smith and Folsom, assignors.) (Reissue.)						
Elkin, Charles. (See Longley and Elkin.)						
Elkins, Orion N. (See Hunt, James R. B., assignor.)						
Ellacott, Joseph P. (See Cummings, J. Raymond, assignor.)						
Ellacott, Joseph P. (See Lyman, Nathan E., assignor.)						
Ellacott, Joseph P., Chicago, Ill. Stirrup	313,484	Mar. 10	621	161	30	901
Ellacott, Joseph P., assignor to Union Brass Manufacturing Company, Chicago, Ill. Re-clining-chair	311,862	Feb. 10	562	151	30	459
Eller, James H., Canton, Ohio. Metal roofing	326,958	Sept. 29	2366	152	32	1477
Ellington, Edward B. (See Johnson, William H., assignor.)						
Ellinwood, Augustus E. (See Miller and Ellinwood.)						
Ellinwood, Augustus E., assignor of two-thirds to L. Miller and H. Young, Akron, Ohio. Chuck	318,970	June 2	56	14	31	1056
Elliott, Charles, San Francisco, Cal. Purifying water for boilers	317,963	May 19	1418	380	31	800
Elliott, Henry, St. Louis, Mo. Railway-frog	318,940	May 19	1753	469	31	863
Elliott, John, Jr., and T. A. Cunningham, Dalbeattie, county of Kirkcubright, Scotland. Steam-boiler	323,647	Aug. 4	349	99	32	587
Elliott, Matthew P., Crystal City, Mo. Furnace for heating steam-boilers	321,287	Dec. 1	47	11	33	1007
Elliott, William H., New York, N. Y. Breech-loading fire-arm	314,570	Mar. 31	2076	555	30	1214
Elliott, William H., Ilion, N. Y. Roller-skate	323,405	Aug. 4	30	8	32	528
Elliott, William H., Brooklyn, N. Y. Magazine fire-arm	323,922	Aug. 11	699	196	32	662
Elliott, William H., Brooklyn, N. Y. Fire-arm	325,513	Sept. 1	403	98	32	1092
Elliott, Charles W., Moncton, New Brunswick, Canada, assignor of one-half to G. E. Mackintire, Melrose, Mass. Folding paper box	313,190	Mar. 3	227	56	30	618
Elliott, George L., New York, N. Y. Combined sash-fastener and sash-lift	313,580	Mar. 10	738	194	30	924
Elliott, George S., Mobile, Ala. Motor	324,285	Oct. 27	2418	627	33	462
Elliott, Gilbert R., Boston, Mass. Pneumatic door-check	329,226	Oct. 27	2419	628	33	463
Elliott, Gilbert R., Boston, Mass. Door-spring	329,297	Oct. 27	2421	628	33	463
Elliott, Gilbert R., Boston, Mass. Door-check	329,298	Oct. 27	2422	628	33	463
Elliott, James, Melville, N. Y. Well-tube	311,259	Jan. 3	1532	417	30	302
Elliott, James, Newton, Iowa. Harrow	328,576	Oct. 30	1401	364	33	271
Elliott, James B., London, England. Unicycle-skate	314,812	Mar. 31	2414	638	30	1277
Elliott, John H., Mason City, Iowa. Fastener for churn-tops	325,164	Aug. 25	2385	657	32	959
Elliott, John T., Grand Rapids, Mich. Water-proof compound	313,412	Mar. 3	520		30	874
Elliott, King H., Burlington, Vt. Shovel step or guard	310,567	Jan. 13	524	143	30	106
Elliott, Lewis, assignor to L. Candee & Co., New Haven, Conn. Overshoe	314,569	Mar. 31	2075	554	30	1214
Elliott, Lewis, assignor to L. Candee & Co., New Haven, Conn. Roll for making india-rubber soles	315,262	Apr. 7	301	97	31	71
Elliott, Sarah A., Norfolk, Va. Flower-frame	328,926	Oct. 27	1874	489	33	364
Elliott, Sterling, Watertown, Mass. Drilling-machine	324,759	Aug. 18	1847	508	32	882
Elliott, Thomas, Hassard, Mo. Adjustable fruit-picking stand	317,325	May 5	543	138	31	622
Elliott, Thomas B., Kemper, Ill. Grain and hay derrick and carrier	310,263	Jan. 6	133	38	30	27
Elliott, Thomas B., Kemper, Ill. Hay and grain derrick and carrier	314,331	Mar. 24	1734	462	30	1125
Elliott, Walter P., New Brunswick, N. J. Apparatus for making gas	328,929	Sept. 29	2266	619	32	1477
Elliott, Walter P., New Brunswick, N. J. Making illuminating-gas	327,541	Oct. 6	52	12	33	11
Elliott, Walter P., New Brunswick, N. J. Apparatus for making gas	320,778	Nov. 17	1797	484	33	964
Elliott, William H., Texarkana, Tex. Wire basket	312,101	Feb. 10	866	237	30	517
Elliott, William T., Moredith, assignor to himself and A. Thompson, Warner, N. H. Apple paring and slicing machine	315,752	Apr. 14	1082	284	31	203
Elliott, William W., Galveston, Tex. Swing	320,432	June 16	2040	535	31	1433
Ellis, Albert C., <i>et al.</i> (See Johnston, James J., assignor.)						
Ellis, Charles S. (See Reinhardt and Ellis.)						
Ellis, Charles S., Memphis, Tenn. Letter-box alarm	323,129	July 28	2342	621	32	450
Ellis, Clifford C., assignor to C. A. Shaw, Boston, Mass. Inhaler	320,970	Nov. 24	2053	555	33	919
Ellis, Daniel. (See Sherman, Nicholas W., assignor.)						
Ellis, Elisha W., Lake, Ill. Railway bumping-post	322,812	July 21	1882	499	32	358
Ellis, Frederick L., New Haven, Conn. Toggle-joint	322,531	July 21	1516	399	32	292
Ellis, George A., assignor to H. and G. Heywood, A. M. Greenwood, and A. Morrill, Gardner, Mass. Parasol for children's carriages	315,605	Apr. 14	876	230	31	163
Ellis, George A., and E. L. Taft, assignors to H. and G. Heywood, A. M. Greenwood, and A. Morrill, Gardner, Mass. Standard for children's carriages	319,589	June 9	811	216	31	1206
Ellis, Isaac and M. I., Norwood, Mass. Coloring, embellishing, and discharging color in the manufacture of paper	330,215	Nov. 10	1062	277	33	715
Ellis, James W., assignor of two-thirds to J. W. Parker, Brooklyn, and H. D. Harris, New York, N. Y. Composition of matter for the preservation of paper or vegetable tubing used for the insulation of telegraph-wires	319,079	June 2	181	46	31	1081

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Ellis, James W., assignor of two-thirds to J. W. Parker, Brooklyn, and H. D. Harris, New York, N. Y. Composition of matter for the preservation and insulation of wires	321,956	July 14	754	197	32	145
Ellis, John F. (See Freeman, Thomas, assignor.)						
Ellis, John F., et al. (See Bouvier, Louis P., assignor.)						
Ellis, John M., et al. (See Nutting, Adrain, assignor.)						
Ellis, Joseph G., Oak Ridge, La. Speculum	326,856	Sept. 22	2224	590	32	1444
Ellis, Larkin B., Vernon, Mich. Steam-engine	320,833	June 16	1733	458	31	1377
Ellis, Melvin I. (See Ellis, Isaac and M. I.)						
Ellis, Millard F., assignor of one-half to A. F. Martin, Atchison, Kans. Brick for veneering frame houses and other wooden buildings	313,930	Mar. 17	1237	321	30	1022
Ellis, Oliver J., Dartford, county of Kent, assignor to I. and E. Hall, London, England. Air-refrigerating apparatus	323,304	July 28	2598	690 691	32	495
Ellis, William C., Worcester, Mass. Piano-action	316,023	Apr. 21	1449	378	31	276
Ellis, William C., Marshalltown, Iowa. Anti-freezing non-exploding cut-off for bath-boilers	332,367	Dec. 15	1673	438	33	1311
Ellison, John M., Pittsburg, Pa. Ironing-table	326,857	Sept. 22	2225	581	32	1444
Elliston, John J., Halesborough, Tex. Cotton-seed planter	325,514	Sept. 1	404	99	32	1092
Ellithorp, Archibald M. (See Macomber, Louis H., assignor.)						
Ellmaker, Isaac N., assignor of one-half to J. Conlon, Sterling, Ill. Sheet-metal pail	319,080	June 2	122	48	31	1082
Ellis, Elisha E., Canning P. O. Nova Scotia, Canada. Steam-boiler	326,960	Sept. 29	2369	619	32	1477
Ellis, Josiah W., Pittsburg, Pa. Device for making barbed strips for fences	310,394	Jan. 6	309	86	30	60
Ellis, Josiah W., Pittsburg, Pa. Machine for making compound wire	310,805	Jan. 13	824	223 224	30	161
Ellis, Josiah W., Pittsburg, Pa. Controlling gas under pressure	321,426	July 7	18	4	32	6
Ellis, Josiah W., assignor to J. W. Friend, Pittsburg, Pa. Fire-fender	312,620	Feb. 24	1587	435	30	668
Ellis, Josiah W., assignor to R. E. Breed, Pittsburg, Pa. Manufacture of hoes	323,130	July 28	2343	622	32	450
Ellsperman, Philip. (See Bolus and Ellsperman.)						
Ellsworth, Amos C., Jay, Vt. Windmill	331,288	Dec. 1	49	11	33	1008
Ellsworth, Dewitt, and M. Rogers, Riverdale, Mich. Vehicle-shaft support	327,930	Oct. 6	549	143	33	98
Ellsworth, Henry W., Fredonia, N. Y. Writing-desk	326,636	Sept. 22	1885	494	32	1384
Ellwood, Abram. (See Stangard, Hans H., assignor.)						
Ellwood, Abram. (See Upham, Andrew J., assignor.)						
Ellwood, Abram, et al. (See Long, Edwin, assignor.)						
Ellwood, Everett C., Green's Farms, Conn. Two-row seed-sower	319,211	June 2	330	88, 89	31	1100
Ellwood, Hiram. (See Burke, John, assignor.)						
Ellwood, Isaac L., et al. (See Upham, Andrew J., assignor.)						
Ellwood, Reuben, et al. (See Long, Edwin, assignor.)						
Ellyson, Robert S., Danville, Va. Attaching writing-decks to sewing-machines	330,100	Nov. 10	919	239	33	687
Elmer, Edwin R., Buckland, Mass. Shingle or roof bracket	330,971	Nov. 24	2054	556	33	919
Elmer, Jacob, Biloxi, Miss. Compound spilling for wharves and bridges	319,471	June 9	678	182	31	1183
Elmer, William H., Berlin, Wis. Turbine water-wheel	314,171	Mar. 17	1540	403	30	1079
Elmes, Charles F., Chicago, Ill. Rolling-mill	321,427	July 7	20	4	32	7
Elmore, Benton, Shasta, Cal. Screw-plate	325,790	Sept. 8	775	194	32	1164
Elrod, Edward B., Flora, Ill. Combined foot-warmer and heater	316,252	Apr. 21	1754	461	31	331
Elsaesser, Emil, Barmen, Prussia, Germany. Red dye-stuff or coloring-matter	329,634	Nov. 3	824		33	559
Else, George, Springfield, Mass. Toy spring-gun	313,413	Mar. 3	521	136	30	874
Elson, Benjamin F. (See Goodsell and Elson.)						
Elson, Jacob, assignor of one-half to H. B. Gross, Philadelphia, Pa. Suspender-clasp	319,212	June 2	334	89	31	1110
Eltonhead, Alfred L., Denver, Colo. Cable railway	329,626	Nov. 3	546	139	33	606
Elvin, Thomas C., Huntington, Ind. Car-wheel	312,263	Feb. 17	1097	303	30	567
Elward, John H., assignor to M. Elward, Polo, Ill. Traction-engine	329,153	Oct. 27	2215	574	33	424
Elward, John H., assignor to M. Elward, Polo, Ill. Traction-engine	329,154	Oct. 27	2217	574	33	424
Elward, Mary. (See Elward, John H., assignor.)						
Ellwell, George W., and B. Fay, Danbury, Conn. Hat-sizing machine	311,572	Feb. 3	151	43, 44	30	377
Ely, Charles M., assignor to W. C. Goodloe, Lexington, Ky. Compound for harness-oil	327,871	Oct. 6	471		33	84
Ely, David A. (See Postlethwaite, Charles W., assignor.)						
Ely, E. A., et al. (See Chamberlain, Marcus W., assignor.)						
Ely, Edward O., et al. (See Moulton, Luther V., assignor.)						
Ely, Edward O., Boston, Mass. Button-fastener	323,923	Aug. 11	700	196	32	662
Ely, Edward O., Boston, Mass., assignor to Peninsular Novelty Company, Grand Rapids, Mich. Button-fastener	312,986	Feb. 24	2068	564	30	754
Ely, Edward O., Boston, Mass., assignor to Peninsular Novelty Company, Grand Rapids, Mich. Button-setting machine	312,987	Feb. 24	2069	565	30	754
Ely, Edward P., South Wallingford, Vt., assignor to A. H. Ritchie, New York, N. Y. Machine for the reduction of wood pulp	310,659	Jan. 13	638	176	30	197
Ely, F. S., et al. (See Chamberlain, Marcus W., assignor.)						
Ely, James L., Jersey City, N. J., assignor of three-fourths to W. C. Spelman and G. E. Stevens, New York, N. Y. Grenade	333,117	Dec. 29	2706	710	33	1508
Ely, Mary C. (See Ely, Ralph, assignor.)						
Ely, P. A., et al. (See Chamberlain, Marcus W., assignor.)						
Ely, Ralph, assignor to M. C. Ely, Delaware, Ohio. Hook	311,968	Feb. 10	690	189	30	484
Ely & Ramsay. (See Farrell, Charles, assignor.)						
Ely, Theodore N., and J. W. Cloud, Altoona, Pa. Refrigerator-car	312,830	Feb. 24	1871	512	30	719
Elzenheimer, Emil, Toledo, Ohio. Hair-frizzling iron	325,515	Sept. 1	405	99	32	1092
Elzey, Samuel B., Morrisville, Mo. Gate-latch	322,529	July 21	1594	421	32	305
Eman, Theodore F., Mendon, Ohio. Clod crusher and pulverizer	326,489	Sept. 15	1682	439	32	1340
Emanuel, Henry, assignor to Standard Oiled Clothing Co., New York, N. Y. Pommel-coat	329,229	Oct. 27	2423	628	33	463
Embrey, Robert, assignor of one-half to S. Landes, North Lewisburg, Ohio. Register for billiards	311,300	Jan. 27	1533	417	30	302
Embry, Leonard B., Corsicana, Tex. Rock-drilling and well-boring machine	321,700	July 7	389	103 104	32	73
Embury, Holloway P. (See Johnson, Josee, assignor)						
Emerson, Alfred S., Charleston, S. C. Car-ventilator	324,099	Aug. 11	935	258	32	704
Emerson, Charles W., Charlestown, Mass. Hanging door	314,005	Mar. 17	1322	345	30	1040
Emerson, Charles W., Boston, Mass. Hanging door	321,198	June 30	3047	807	31	1635
Emerson, Cyrus J., Jr. (See Lakin and Emerson.)						
Emerson, Edward R., New York, N. Y. Denijohn	321,012	June 30	2802	745	31	1581
Emerson & Fisher Company. (See Ransom, Hiram W., assignor.)						
Emerson, Francis, et al. (See Cummins, John R., assignor.)						
Emerson, Francis, J. J. and J. L. Fairies, and J. R. Cummins, McKinney, Tex. Plow	318,096	May 19	1566	420	31	837
Emerson, Frank H., Lynn, Mass. Buffing-roll	325,329	Sept. 1	133	37	32	1040
Emerson, George C. (See Fenton, Hiram C., assignor.)						
Emerson, James, Williamsett, Mass. Steam-heating apparatus for railway-cars	314,006	Mar. 17	1323	345	30	1040

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Emerson, James, Willmamssett, Mass. Steam-valve connection for railway-cars	314,007	Mar. 17	1385	{ 345 346	30	1040
Emerson, James E., Beaver Falls, Pa. Insertible saw-tooth	311,301	Jan. 27	1534	417	30	302
Emerson, James E., Beaver Falls, Pa. Machine for milling recesses in saw-plates	315,753	Apr. 14	1065	{ 324 325	31	903
Emerson, James F., et al. (See Tirrell, Jacob P., assignor.)						
Emerson, Loender C., assignor of one-half to C. H. Nelson, North Grafton, Mass. Eye- letting-machine	332,334	Dec. 15	1592	418	33	1297
Emerson, Talcott & Co. (See Jones, James H., assignor.)						
Emerson, Talcott & Co. (See Traphagen, William H., assignor.)						
Emerson, William A., Leominster, Mass. Combined blackboard and drawing-case	329,300	Oct. 27	2424	629	33	463
Emery, Albert H., Stamford, Conn. Manufacture of eye-links	323,048	July 14	877	298	32	166
Emery, Albert H., Stamford, Conn. Manufacturing girders	322,049	July 14	879	298	32	166
Emery, Albert H., Stamford, Conn. Manufacture of metallic columns	322,050	July 14	880	298	32	166
Emery, Albert H., Stamford, Conn. Plate for boilers	322,051	July 14	880	{ 298 299	32	166
Emery, Albert H., Stamford, Conn. Construction of screw-threaded links, bars, or bolts ..	322,052	July 14	884	299	32	166
Emery, Albert H., Stamford, Conn. Construction of wrought-metal pipes or tubes	322,053	July 14	885	299	32	166
Emery, Charles E., et al. (See Smith, Walton D., assignor.)						
Emery, Charles E., Brooklyn, N. Y. Tube-joint	310,264	Jan. 6	135	30	30	97
Emery, Charles E., Brooklyn, N. Y. Steam-table	323,570	Aug. 4	946	72	32	567
Emery, Cora L., et al. (See Smith, Walton D., assignor.)						
Emery, Cyrus, et al. (See Smith, Walton D., assignor.)						
Emery, George T. (See Barlow and Emery.)						
Emery, George T., et al. (See Barlow, Charles O., assignor.)						
Emery, Isaiah S., Rochester, N. Y. Pocket-book	316,346	Apr. 21	1875	496	31	332
Emery, John J., South Thomaston, Me. Mechanism relating to chain-stoppers and wind- lasses of navigable vessels	311,573	Feb. 3	153	44	30	377
Emery, Lowell M., Leavenworth, Ind., assignor of one-half to G. T. Craven, Cincinnati, Ohio. Medical still or vapor-generator	310,568	Jan. 13	594	144	30	106
Emery, William H. (See Scott, Charles A., assignor.)						
Emig, George, Cincinnati, Ohio. Metal-punching machine	327,777	Oct. 6	354	91, 92	33	63
Emmerich, Rudolph F., and F. Vonderlehr, New York, N. Y. Bronzing and dusting ma- chine	333,307	Dec. 29	2627	740	32	1539
Emmert, Ezra, Dixon, Ill. Road-cart	313,485	Mar. 10	621	162	30	901
Emmert, Jesse A., assignor of one-half to W. H. Anthony, Montrose, Mo. Bosom-board ..	322,703	July 21	1744	460	32	334
Emmert, Jesse A., and L. P. Klutta, Montrose, Mo. Mechanical motor	314,441	Mar. 24	1893	505	30	1156
Emmett, William, Logansport, Ind. Feathering paddle-wheel	315,263	Apr. 7	392	98	31	71
Emmett, William, Logansport, Ind. Rail-friction clamp	328,927	Oct. 27	1875	490	33	364
Emmett, William, Logansport, Ind. Car-coupling	328,928	Oct. 27	1876	490	33	364
Emmick, Andrew C. (See Hatcher, Edmund N., assignor.)						
Emmitt, David M., Coldmbia, Mo. Fence	315,134	Apr. 7	193	47	31	35
Emmner, Julius, Jr., Washington, D. C. Telephone-transmitter	330,879	Nov. 24	1930	523	33	896
Emmons, Wallace B., Pettitsville, Ohio. Bag-holder	314,371	Mar. 31	9078	355	30	1315
Emory, Paschal P., assignor of one-half to S. A. Bemis, Springfield, Mass. Journal-brass ..	330,389	Nov. 17	1305	{ 346 347	33	770
Empire Electric Carbon Company. (See Conliss, Charles, assignor.)						
Empire Refrigerating Company. (See Jungenfeld and Rasebach, assignors.)						
Empire Wringer Company. (See White, Henry J., assignor.)						
Empress Embroiderer Company. (See Chilton, Franklin H., assignor.)						
Emry, David L., Carthage, Mo. Line-support for harness	331,781	Dec. 8	799	202	33	1148
Enas, Joseph D., Napa City, Cal. Beeswax-extractor	321,090	June 30	2911	774	31	1610
Endemann, Herman, Brooklyn, assignor to W. H. Childs, New York, N. Y. Disinfect- ant and cleansing-liquid for animals, &c.	331,190	Nov. 24	2349	.....	33	973
Endres, John J., Hoboken, N. J. Grip attachment for railway-cars	312,711	Feb. 24	1710	470	30	690
Endres, John J., Hoboken, N. J. Truck for cable cars	326,107	Sept. 15	1175	300	32	1246
Engel, Johannes, Newark, N. J. Fan attachment for rocking-chairs	316,762	Apr. 28	2471	644	31	467
Engel, Louis G., Tilly Foster, N. Y. Pump	322,269	July 14	1155	302	32	219
Engel, Louis G., Tilly Foster, N. Y. Valve	322,270	July 14	1156	303	32	220
Engel, Mortefiore N., et al. (See Engel, Samuel, assignor.)						
Engel, Myrtilla E., et al. (See Engel, Samuel, assignor.)						
Engel, Samuel, assignor to M. E. and M. N. Engel, Chicago, Ill., and F. Seixas, South Bend, Ind. Conductor's ticket-case	317,447	May 5	710	{ 178 179	31	651
Engelhard, Frank, assignor of one-half to D. S. Loomis, Springfield, Mass. Lock-valve ..	322,590	July 21	1595	421	32	305
Engelhardt, Frederick, New York, N. Y. Piano-action	325,401	Sept. 1	251	63	32	1063
Engelke, Leopold A. H., Philadelphia, Pa. Fire-escape	326,961	Sept. 29	2369	619	32	1477
Engelmann, Anton, Hanover, Prussia, Germany. Coupling for hemp and wire ropes	315,490	Apr. 14	711	188	31	133
Engert, Charles, Brooklyn, N. Y. Tobacco-hanger	329,301	Oct. 27	2425	629	33	464
England, George W., Merrimac, Mass. Hollow auger	317,524	May 12	809	208	31	678
England, James, assignor to I. S. McGlehan, New York, N. Y. Belt-coupling	311,883	Feb. 10	554	152	30	460
Engle, Alfred, West Amboy, N. Y. Hop-box shade	332,883	Dec. 22	2371	627	33	1441
Engle, Andrew, Metz, Iowa. Furnace for night-soil	315,397	Apr. 7	569	147	31	102
Engle, Andrew, Metz, Iowa. Consuming night-soil, offal, &c.	329,302	Oct. 27	2426	629	33	464
Engle, Stephen D., Hazelton, Pa. Magazine spring-gun	320,643	June 23	2324	614	31	1494
English, Analdo M., Boston, Mass. Button-setting instrument	319,213	June 2	335	90	31	1110
English, Arthur, Chicago, Ill. Transom-lifter	331,289	Dec. 1	50	11	33	1008
English, Daniel, Brookville, Pa. Stove-lifter	322,613	July 21	1822	499	32	358
English, James G. (See Ludington, Frank J., assignor.)						
English, James G., New Haven, Conn. Carriage-curtain button	323,131	July 28	2344	622	32	451
Ennis & Co., George W. (See Berteaux, Georges, assignor.)						
Ennis, Henry J. (See Waltemeyer and Ennis.)						
Enoch, Alexander B., et al. (See Winters, John B., assignor.)						
Enoch, Benjamin F., Bergen Point, N. J. Lamp for illuminating, heating, and ventilating rooms	322,168	July 14	1038	269	32	197
Enoch, John, Chicago, Ill. Halter	321,957	July 14	755	197	32	145
Enos, John A., Peabody, Mass. Transcycle	311,112	Jan. 20	1255	344	30	945
Enos, John A., Peabody, assignor of two-thirds to M. H. Robinson, Quincy, and O. A. Fos- ter, Salem, Mass. Suspension-railway and car-hanger	331,387	Dec. 1	122	46, 47	33	1030
Enos, John A., Peabody, assignor of two-thirds to M. H. Robinson, Quincy, and O. A. Fos- ter, Salem, Mass. Railway-car	331,388	Dec. 1	124	47, 48	33	1031
Enos, John A., Peabody, assignor of two-thirds to M. H. Robinson, Quincy, and O. A. Fos- ter, Salem, Mass. Truck for elevated cars	331,389	Dec. 1	125	48	33	1031
Enos, John B., Buffalo Hart, Ill. Reel for check-rower ropes	311,302	Jan. 27	1536	418	30	308

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Enos, John R., Buffalo Hart, assignor of one-half to G. W. Bullard, Springfield, Ill. Carriage-jack	326,024	Sept. 8	1067	272	32	1219
Enright, John J., and D. J. May, Detroit, Mich. Cuspidor for railway-cars	331,692	Dec. 1	674	167	33	1117
Ensley, Marshall N., Drain, Oreg. Washing-machine	328,663	Oct. 20	1532	398	33	293
Ensminger, John R., Palmyra, Pa. Milk-cooler	321,490	July 7	108	29	32	22
Ensworth, Porter S., Waterford, Pa. Embalming apparatus	328,577	Oct. 20	1402	365	33	271
Enterprise Manufacturing Company of Pennsylvania. (See Asbury, T. Henry, assignor.)						
Entekin, John C. (See Hudson and Barry, assignors.)						
Entekin, William G., Philadelphia, Pa. Photograph-burnishing machine	327,778	Oct. 6	356	92	33	63
Entwistle, Thomas C., Melrose, Mass. Expansion drop-wire for warping-machines	338,118	Dec. 29	2707	710	33	1508
Entwistle, Thomas C., Melrose, Mass. Comb for warping and beaming machines	333,399	Dec. 29	3065	805	33	1575
Eperts, August, and H. Perk, St. Louis, Mo. Grater	331,874	Dec. 8	931	240	33	1172
Ephraim, Ferdinand, San Francisco, Cal. Pipe for floorings, ceilings, and other building purposes	338,119	Dec. 29	2709	710	33	1508
Eppel, Gustav A., Okawville, Ill. Washing-machine	321,340	June 30	3928	860	31	1670
Eppelsheimer, Henry, New York, N. Y. Ice-cream and pudding mold	330,305	Nov. 10	1179	315	33	739
Eppler, Andrew, Jr., Boston, Mass., assignor to Boot and Shoe Sole Laying Company, Portland, Me. Sole-laying machine	315,922	Apr. 14	1316	343	31	244
Eppler, Andrew, Jr., Boston, Mass., assignor to Boot and Shoe Sole Laying Company, Portland, Me. Sole-laying machine	315,923	Apr. 14	1318	343	31	245
Eppler, Andrew, Jr., Boston, Mass., assignor to Boot and Shoe Sole Laying Company, Portland, Me. Sole-laying machine	315,924	Apr. 14	1320	343	31	245
Eppler, Andrew, Jr., Boston, assignor of one-half to E. Adams, Newburyport, Mass. Boot and shoe sewing machine	325,063	Aug. 25	2263	621	32	966
Equitable Electric Company. (See Holcombe, Alfred G., assignor.)						
Equitable Electric Company. (See Pendleton, John M., assignor.)						
Equity Gas Saving Company. (See Olds, Alonzo F., assignor.)						
Erbacher, Frank W. (See Clark, Henry, assignor.)						
Erickson, Gustaf, and W. Lindblom, Des Moines, Iowa. Medicine for croup, diphtheria, &c.	311,884	Feb. 10	555		30	460
Erie City Iron Works. (See Moran, William, assignor.)						
Erie Embalming Company. (See Baker, Lovett, and Van Etten, assignors.)						
Erikson, Lars, Chicago, Ill. Clock-pendulum protector	333,120	Dec. 29	2710	710	33	1509
Erlanger, Charles, Baltimore, Md. Button-fastening machine	325,516	Sept. 1	405	100	32	1083
Erlanger, Charles, Baltimore, Md. Button-fastener	323,400	Dec. 29	3067	805	33	1576
Erlar, Albert L., Lawler, Iowa. Car-coupling	322,814	July 21	1883	499	32	358
Ernold, Edward. (See Bannwart and Ernold.)						
Ernst, Ferdinand L. A., New York, N. Y. Leather trimming	316,024	Apr. 21	1452	378	31	276
Ernst, John, Bay City, Mich. Boring-machine	324,100	Aug. 11	936	258	32	704
Ernst, John H. (See Silver, William H., assignor.)						
Ernst, Leo, Chicago, Ill. Making beer	324,822	Aug. 25	1942	534	32	906
Ernat, Victor H., Jersey City, N. J. Engine-lathe	325,682	Sept. 8	591	151	32	1132
Ernst, William M., New York, N. Y. Disinfecting water-closets	317,634	May 12	948	243	31	703
Ernst, William M., New York, N. Y. Disinfecting water-closets	331,693	Dec. 1	675	167	33	1117
Ernst, Wilson, Camden, N. J. Grate	323,031	July 28	2214	565	32	484
Erskine, Milton J., Omaha, Neb. Water-power	331,684	Dec. 1	678	167	33	1117
Ervin, John A., Shoemakertown, Pa. Fork for digging vegetables	316,347	Apr. 21	1476	496	31	352
Ervin, Charles and E. E., Princeton, Ind. Traction-engine	314,924	Mar. 31	2567	679	30	1303
Ervin, Edward E. (See Ervin, Charles and E. E.)						
Ervin, James R., Marshall, Mo. Sulky-plow	322,094	July 14	938	243	32	179
Erwin, James B., Milwaukee, Wis. Steam-trap	321,701	July 7	391	104	32	73
Erwin, James B., Milwaukee, Wis. Air-compressor	329,377	Oct. 27	2546	656	33	424
Erwin, James B., Milwaukee, Wis. Hydraulic air-compressor	333,208	Dec. 29	2828	740	33	1529
Esch, John, Milwaukee, Wis. Truck	320,800	June 23	2589	666	31	1546
Esche, Hermann, St. Louis, Mo. Two-wheeled vehicle	324,823	Aug. 25	1943	534	32	906
Escherwys & Co. (See Kron, Rudolf, assignor.)						
Eschner, Louis, Philadelphia, Pa. Neck-wear retainer	310,660	Jan. 13	639	176	30	127
Eschner, Louis, Philadelphia, Pa. Neck-scarf shield and pin	312,102	Feb. 10	867	237	30	518
Esco, Joseph A., Crawford, and H. G. Roane, Athens, Ga. Seed-planter and fertilizer-distributer	329,378	Oct. 27	2547	656	33	424
Escorbia, Jean M. and M. L. S., St. Etienne, Loire, France. Bottle-stopper	325,064	Aug. 25	2266	623	32	967
Escorbia, Marguerite L. S. (See Escorbia, Jean M. and M. L. S.)						
Eacourrou, André B., Moux, France. Injecting device for plants	318,609	May 26	2253	602	31	961
Eshelman, Benjamin, et al. (See Wallick, Marion, assignor.)						
Eshelman, Benjamin F., Harlan, Iowa. Carpet-fastener	322,095	July 14	939	243	32	179
Eshelman, Benjamin F., Harlan, Iowa. Pencil-holder	328,767	Oct. 20	1633	431	33	317
Eshleman, J. Albert, Philadelphia, Pa. Necktie-retainer	323,048	Aug. 4	350	100	32	57
Esleek, Augustine W., Holyoke, Mass. Car-coupling	325,518	Sept. 1	411	101	32	1094
Esleek, Augustine W., and F. M. Eames, Holyoke, Mass. Car-coupling	325,517	Sept. 1	410	101	32	1094
Espenschied, Charles, Hastings, Minn. Device for leveling and aligning shafts	318,885	May 26	2624	666	31	1028
Espenschied, Charles, Hastings, Minn. Device for leveling and aligning shafting	318,886	May 26	2625	666	31	1028
Espy, Josiah, and D. N. Tarbox, Cedarville, Ohio. Trace-fastening	318,422	May 19	1996	537	31	907
Esseck, Richard M. (See Jacobsen, James M., assignor.)						
Esselen, Henry M. (See Folsom, George F., assignor.)						
Essex, James, Lancaster, Mo. Weather-boarding gage	318,555	May 26	2194	586	31	950
Essig, Joseph, Larwill, Ind. Belt-fastener	317,984	May 19	1420	381	31	801
Essig, Ozia A., Canton, Ohio. Plow-clevis	319,966	June 16	1368	259	31	1313
Essig, Ozia A., Canton, Ohio. Colter for plows	327,872	Oct. 6	471	123	33	84
Estabrook, Alanson C., assignor to Florence Manufacturing Company, Florence, Mass. Hand-mirror	323,649	Aug. 4	350	100	32	588
Estabrook, Frances A., et al. (See Brooks, John S., assignor.)						
Estabrook, Joseph M. (See Higgins, John A., assignor.)						
Estelle, Charles W., Valparaiso, Ind. Gate	312,621	Feb. 24	1589	435	30	609
Estelle, Henry, Chattanooga, Tenn. Boiler-cleaner	323,571	Aug. 4	246	72	32	567
Esten, Moses, Slatersville, R. I. Trade-wagon	325,596	Sept. 1	505	126	32	1111
Estep, Harrison, Pittsburg, Pa. Furnace for annealing and flattening glass	314,524	Mar. 24	2011	536	30	1175
Esterly, George, assignor of one-fourth to G. W. Esterly, Whitewater, Wis. Grain-binding machine	327,931	Oct. 6	550	144	33	99

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Esterly, George, assignor of one-fourth to G. W. Esterly, Whitewater, Wis. Adjustable seat for grain harvesting and binding machines	327,932	Oct. 6	553	144	33	99
Esterly, George W. (See Esterly, George, assignor.)						
Esterly Harvesting Machine Company. (See Preston, David R., assignor.)						
Esterly & Son, George. (See Van De Water, Joseph, assignor.)						
Estes, Elibu B., assignor of one-half to D. D. Hamlin, Flatbush, N. Y. Wardrobe	330,830	Nov. 17	1860	502	33	876
Estes, William A., Vassalborough, Me. Plow	312,559	Feb. 17	1514	413	30	645
Estey, David M. (See Osborn and Estey.)						
Etienne, Edouard, Paris, France. Morse register	314,525	Mar. 24	2013	536 537 538	30	1176
Ety, William, Laconia, N. H. Steam-boller	329,379	Oct. 27	2548	657	33	385
Ety, William, assignor of three-sixths to J. T., C. A., and F. E. Busiel, Laconia, N. H. Knitting-machine	322,361	July 14	1275	333	32	242
Ethridge, Freeman, Bradford, Pa. Measure-spout	313,191	Mar. 3	228	57	30	818
Ethridge, Martin V. B., assignor of two-thirds to H. E. Waite, Boston, Mass., and J. Swann, New York, N. Y. Dial for time-pieces	319,804	June 9	1136	301	31	1265
Ethridge, Martin V. B., assignor to A. J. Bailey, Boston, Mass. Machine for stamp-coin- ing and postmarking	323,799	Aug. 4	533	151 152 153	32	623
Ethridge, Martin V. B., Boston, assignor to H. E. Waite, West Newton, Mass. Making tapering washers	331,045	Nov. 24	2137	579	33	936
Etnyre, Charles D., et al. (See Carson and Sherman, assignors.)						
Euana, Martin V. B., Portsmouth, Ohio. Jar protector and sealer	323,455	Dec. 29	2158	896	32	1587
Euinton, Matthew, West Union, Mass. Combined level, square, and bevel	315,264	Apr. 7	393	98	31	72
Eureka Axle Company. (See Atkins, Sullivan H., assignor.)						
Eureka Axle Company. (See Carter, Alba B., assignor.)						
Eureka Hinge Company. (See Resch, John A., assignor.)						
Eureka Manufacturing Company. (See Baird, Samuel J., assignor.)						
Eureka Mower Company. (See Markham, Dewitt C., assignor.)						
Eureka Patent Glass Mold Company. (See Haley, Jonathan, assignor.)						
Eureka Spindle Company. (See Chapman, Charles H.)						
Eureka Spund Apparatus Company. (See Bigelow, Albert S., assignor.)						
Eustie, John P., Newark, N. J. Holder for vessels	318,887	May 26	2626	697	31	1029
Euston, Alexander, St. Louis, Mo. Feeder for shot-separators	319,684	June 9	980	255	31	1234
Euston, Alexander, and J. P. Neville, St. Louis, Mo. Boxing lead pipe	312,103	Feb. 10	867	237	30	518
Euston, Henry T. (See Weimer and Euston.)						
Evans, Andrew, Indianapolis, Ind. Device for closing air-tight vessels	322,433	July 21	1375	360	32	267
Evans, Austin C., Springfield, Ohio. Drilling attachment for corn-planters	311,574	Feb. 3	154	44	30	377
Evans, Austin C., Springfield, Ohio. Fertilizing attachment for seed-planters	319,893	June 9	1254	331	31	1285
Evans, Austin C., Springfield, Ohio. Harrow	319,894	June 9	1258	332	31	1286
Evans, Austin C., Springfield, Ohio. Harrow	321,005	July 7	540	142	32	100
Evans, Benjamin F., Attleborough Falls, Mass. Ornamental chain	323,262	Aug. 4	617	173	32	640
Evans, Charles H., assignor of one-half to D. H. Craig, agent, New York, N. Y. Absorption ice-machine	318,971	June 2	57	14, 15	31	1058
Evans, Charles H., assignor to D. H. Craig, agent, New York, N. Y. Refrigerating apparatus	329,380	Oct. 27	2550	657 658	33	485
Evans & Co., Thomas. (See Evans, Thomas, assignor.)						
Evans, David, Sharpburg, Pa. Boring-tool for lathes	332,065	Dec. 8	1216	317	33	1224
Evans, Frederic H., Brooklyn, N. Y. Expansion-fastening for screws and belts	317,448	May 5	712	179	31	652
Evans, George F., Corpus Christi, Tex. Fastening for blind-slats	323,663	Aug. 4	618	174	32	640
Evans, George W., Baltimore, Md. Milk or cream can	323,664	Aug. 4	618	174	32	640
Evans, James D., and G. Bogart, Scranton, Pa. Railway-car closet	321,958	July 14	756	197	32	145
Evans, James E., Cincinnati, Ohio. Anti-friction bearing	316,348	Apr. 21	1877	497	31	352
Evans, James E., Cincinnati, Ohio. Anti-friction bearing for roller-skates	316,431	Apr. 21	2001	526	31	374
Evans, James W., assignor of one-third to B. S. Clark, New York, N. Y. Combined fire-escape ladder and ventilating-flue	311,239	Jan. 27	1442	393	30	286
Evans, John, assignor to W. H. Hoover, New Berlin, Ohio. Pad for horse-collars	313,714	Mar. 10	914	238	30	957
Evans, John, assignor to W. H. Hoover, New Berlin, Ohio. Horse-collar	313,715	Mar. 10	915	238	30	957
Evans, John C., Denver, Colo., assignor to T. C. and A. J. Chamberlin, Ogden City, Utah						
Ter. Blind, shutter, or door stop	329,894	Nov. 10	641	163	33	632
Evans, John H., et al. (See Evans, William, assignor.)						
Evans, Lemuel E., East Orange, N. J. Bale-tie	310,502	Jan. 6	431	119	30	24
Evans, Lemuel E., East Orange, N. J. Traveling-box for dogs	315,925	Apr. 14	1321	344	31	245
Evans, Plyna. (See Gibson, Lyman B., assignor.)						
Evans, Quimby N., Boston, Mass. Regulator for hydraulic elevators	327,074	Sept. 29	2510	655	32	1583
Evans, Quimby N., Boston, Mass. Indicator for elevators	327,075	Sept. 29	2512	655	32	1583
Evans, Robert, et al. (See Evans, William, assignor.)						
Evans, Thomas, Providence, R. I. Damper-regulator	310,569	Jan. 13	526	144	30	107
Evans, Thomas, Providence, R. I. Feed-water heater	310,570	Jan. 13	528	145	30	107
Evans, Thomas, New York, N. Y. Fire-extinguishing apparatus	326,962	Sept. 29	2371	620	32	1478
Evans, Thomas, assignor to T. Evans & Co., Pittsburg, Pa. Lamp	313,182	Mar. 3	229	57	30	819
Evans, Thomas P., Philadelphia, Pa. Strap-buckle and wrench combined	311,423	Jan. 27	1706	404	30	334
Evans, Thomas S., and E. H. Blissett, Winnipeg, Manitoba, Canada. Stove-pipe elbow	313,858	Mar. 17	1132	291	30	1002
Evans, Thomas W., Evergreen, Tex. Calf-weaner	320,056	June 16	1469	393	31	1335
Evans, Walter N. (See Hazelton, Milton W., assignor.)						
Evans, Warren R., Portland, Me. Tooth-brush	323,305	July 28	2600	691	32	496
Evans, Warren R., Portland, Me. Artificial tooth	323,306	July 28	2601	691	32	496
Evans, William, Philadelphia, Pa. Clip for heads of vehicle-springs	323,307	July 28	2602	691 692	32	496
Evans, William, Philadelphia, Pa. Clip for vehicle-springs	324,990	Aug. 25	2172	594	32	948
Evans, William, Philadelphia, Pa. Clip for locomotive-springs	325,301	Aug. 25	2442	671 672	32	999
Evans, William, Philadelphia, Pa. Clip for locomotive-springs	325,302	Aug. 25	2443	672	32	999
Evans, William, Philadelphia, Pa. Clip for vehicle-springs	326,963	Sept. 29	2372	620	32	1478
Evans, William, assignor of two-thirds to J. H. and R. Evans, Philadelphia, Pa. Drill-press	332,242	Dec. 15	1474	384 385	33	1275
Evans, William D., Philadelphia, Pa. Razor-strop	312,104	Feb. 10	868	238	30	518
Evarts, James M., and J. H. Greenleaf, New Haven, Conn. Machine for coiling pipe	318,097	May 19	1566	420	31	827
Evarts, John A., assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Extension-lamp	312,194	Feb. 10	1006	274	30	542
Evarts, John A., assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Suspension-pulley	319,214	June 2	337	90	31	1110

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Evarts, John A., assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Extension lamp-fixture	394,780	Aug. 18	1848	509	32	888
Evarts, John A., assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Suspension device for lamps	395,903	Aug. 25	2444	672	32	990
Even, Louis, Jeffriesburg, Mo. Plow attachment	318,241	May 19	1755	460	31	863
Everding, John. (See Hyatt and Everding.)						
Evered, Joshua, Duluth, Minn. Log-turner	326,280	Sept. 15	1422	370	32	1291
Everett, Eliza A. (See Everett, Richard H. and E. A.)						
Everett, Francis A. (See Fisk, James, assignor.)						
Everett, Fred F., Weeping Water, Nebr. End-gate for wagons	321,891	July 7	661	172	32	120
Everett, John C., Williamsport, Pa., and R. Hardie, Hoboken, N. J. Machine for bundling kindling-wood	311,424	Jan. 27	1707	465	30	334
Everett, Richard H. and E. A., Vestal Centre, N. Y. Cooking-utensil	322,532	July 21	1517	390	32	292
Everingham, Francis M., East Onondaga, N. Y. Cultivator	316,886	Apr. 28	2638	687	31	496
Everitt, Elisha E., Philadelphia, Pa. Wardrobe or folding bedstead	332,144	Dec. 8	1340	346	33	1944
Everitt, Percival. (See Sandeman and Everitt.)						
Evers, Charles H., Cleveland, Ohio. Cigar-bunching machine	328,203	Oct. 13	902	234	33	172
Evers, Wilhelm A., Edgewood, Ga. Fire-escape	323,924	Aug. 11	701	235	32	608
Everson, John Q., Pittsburg, Pa. Draft-regulator	325,791	Sept. 8	776	194	32	1164
Evarts, Galen B. (See Le Roy and Martignoni, assignors.)						
Eveason, Henry, Hempstead, N. Y. Chicken-house	319,081	June 2	183	49	31	1068
Eveason, Martin V. B., Hoboken, N. J. Base for rocking chairs, &c.	319,397	June 2	562	153	31	1155
Ewart Manufacturing Company. (See Dodge, James M., assignor.)						
Ewart Manufacturing Company. (See Howe, Eugene L., assignor.)						
Ewart Manufacturing Company. (See Weaver, James H., assignor.)						
Ewer, Adolph, et al. (See Majert, Wilhelm, assignor.)						
Ewer, Albert, Battle Creek, Mich. Farm-fence	326,902	Sept. 22	2288	568	32	1455
Ewer, James B., Wellsville, Kans. Concentric rotary engine	311,240	Jan. 27	1443	393	30	286
Ewers, Francis M., Edison, Ohio. Wire-stretcher	320,433	June 16	2041	536	31	1433
Ewing, Alexander. (See Pacey, John T., assignor.)						
Ewing, Alexander, New York, N. Y. Cigarette-machine	322,362	July 14	1277	333	32	942
Ewing, Edward, assignor to R. E., J. V., and H. O. Hastings, Philadelphia, Pa. Booking gold-leaf	311,823	Feb. 3	465	334	30	426
Ewing, Harriet N., Philadelphia, Pa. Game apparatus	330,972	Nov. 24	2056	556	33	920
Ewing, Mary R., Pataskala, assignor of one-half to S. J. McCord, Portsmouth, Ohio. Ham-mock	312,988	Feb. 24	2072	565	30	755
Ewing, Reuben H., Promise City, assignor of one-half to J. A. and W. J. Wolfinger, Wayne County, Iowa. Cultivator	310,806	Jan. 13	826	224	30	162
Excelsior Electric Apparatus Company. (See Haid, Alfred, assignor.)						
Excelsior Gas Machine Company. (See McNett, Lyman F., assignor.)						
Excelsior Self Leveling Berth and Automatic Ladder Company. (See Milligan, Charles A., assignor.)						
Exhaust Ventilator Company. (See Kittloe, Edmund F., assignor.)						
Expanded Metal Company. (See Golding and Durkee, assignors.)						
Eyermann, Christian H., assignor of two-thirds to H. C. G. Luyties and J. H. Zwarts, St. Louis, Mo. Lotion	327,933	Oct. 6	554	.....	33	99
Eynon, Thomas. (See Eynon, William R. and T.)						
Eynon, William D., Philadelphia, Pa. Machine for rolling flat and nut bars	331,230	Nov. 24	2406	651	33	983
Eynon, William R. and T., Cleveland, Ohio. Nut-tapping machine	322,363	July 14	1281	335	32	943
Eyre, Thomas T., Carlisle, N. Mex. Ter. Centrifugal ore-filter	315,398	Apr. 7	570	147	31	103
Eyster, William N., Canton, Ohio. Bicycle	320,917	June 30	2676	711	31	1568
Ezell, Francis L., Nashville, Tenn. Fifth-wheel	315,926	Apr. 14	1322	344	31	945
Faber, Eberhard. (See Musasin, Oscar, Jr., assignor.)						
Faber, Louis, Washington, D. C. Refrigerator for preserving oysters, clams, &c.	310,886	Jan. 20	996	253	30	187
Fabian, Wilhelm, and A. Teller, Hamburg, Germany. Knife-cleaning apparatus	314,666	Mar. 31	2193	581	30	1225
Fabing, Peter M., and J. Ackermann, Roxbury, Wis. Fanning-mill	311,733	Feb. 3	353	97	30	415
Facer, Wilson E., assignor to himself, T. and P. Malley, Cleveland, Ohio. Electric regulator for dampers	332,066	Dec. 8	1218	318	33	1224
Fagan, Thomas B., Van Wert, Ohio. Stock-holder	316,763	Apr. 28	2471	645	31	467
Fagan, Thomas B., Van Wert, Ohio. Wheel-harrow	323,132	July 28	2346	682	32	451
Fagerberg, Charles E., Rockford, Ill. Combined table and desk	328,302	Oct. 13	1025	266	33	194
Fagne, Solomon J., Washington, D. C. Support for underground electric lines	317,326	May 5	545	139	31	623
Fahlberg, Constantin, New York, N. Y. Saccharine compound	326,231	Sept. 15	1424	.....	32	1292
Fahlberg, Constantin, New York, N. Y., assignor of one-half to A. List, Leipsic, Germany. Manufacture of saccharine compounds	319,062	June 2	183	.....	31	1062
Fahlberg, Constantin, New York, N. Y., assignor one-half to A. List, Leipsic, Germany. Manufacture of saccharine compounds. (Reissue)	10,667	Dec. 1	759	.....	33	1134
Fahnehjelm, Otto B., Stockholm, Sweden. Incandescent light	312,452	Feb. 17	1362	376	30	618
Fahnehjelm, Otto B., New York, N. Y. Support for holding and adjusting incandescing bodies in a gas-flame	322,650	Dec. 15	2044	536	33	1376
Fahrig, Frank E., Scranton, Pa. Steam and air injector for furnaces	314,925	Mar. 31	2568	679	30	1303
Fahys Watch Case Company. (See Lamont, James, assignor.)						
Fahys Watch Case Company. (See Shaw, Charles H., assignor.)						
Fajla, Henry, Westminster, county of Middlesex, England. Machine for testing cement ..	317,752	May 12	1100	289	31	732
Falle, Charles V. (See Chilton, William W. and F. H., assignors.)						
Fairbanks, Albert C., Boston, Mass. Banjo	327,779	Oct. 6	357	92	33	63
Fairbanks, Albert C., and W. A. Cole, Boston, Mass. Peg-supporting device for banjos ..	322,054	July 14	887	230	32	169
Fairbanks, Crawford M., Lincoln, R. I. Cutting files	316,764	Apr. 28	2472	645	31	467
Fairbanks & Co., E. & T. (See Fairbanks, Franklin, assignor.)						
Fairbanks & Co., E. & T. (See Spencer and Hazen, assignors.)						
Fairbanks, E. and T. (See Miller, Charles C., assignor.)						
Fairbanks, Franklin, assignor to E. & T. Fairbanks & Co., St. Johnsbury, Vt. Portable or folding scale	326,025	Sept. 8	1067	272	32	1219
Fairbanks, Henry. (See Magoon, Charles H., assignor.)						
Fairbanks, Henry W. (See Beckwith, Frank W., assignor.)						
Fairbanks, Ira E. (See Porter, Stephen, assignor.)						
Fairbanks, James A., Augusta, Me. Wrench	329,542	Nov. 3	168	44	33	837

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Fairburn, James T., Morrilton, Ark. Fence-building machine	332,600	Dec. 15	1975	517	33	1362
Fairbrother, Harley, Conneaut, Ohio. Machine for dressing saw-teeth	313,581	Mar. 10	740	195	30	924
Fairbrother, Henry L., et al. (See Hull, Richard L., assignor.)						
Fairchild, Le Roy W. (See Collard, Richard M., assignor.)						
Fairchild, Leroy W. (See Dixon, Maynard L., assignor.)						
Fairchild, Le Roy W., New York, N. Y. Button-hook	312,622	Feb. 24	1589	435	30	669
Fairchild, Le Roy W., New York, N. Y. Fountain-pen	325,663	Sept. 8	597	151	32	1133
Faires, Jonathan L. (See Emerson, Faires, and Cummins.)						
Faires, Joseph J. (See Emerson, Faires, and Cummins.)						
Faires, Joseph J., et al. (See Cummins, John R., assignor.)						
Fairfield, Hadley P., West Medford, Mass. Machine for uniting the soles and uppers of boots or shoes	329,031	Oct. 27	2041	530	33	393
Fairfield, Thomas D., J. L. Clark, and R. Hughes, Cleveland, Ohio. Apparatus for chilling paraffine and other oils	333,209	Dec. 29	2999	740	33	1530
Fairman, Simon, Baltimore, Md. Car-brake	321,428	July 7	22	5	32	7
Falvre, Alexise C., Meadville, Pa. Link for clothes or harness	312,105	Feb. 10	869	238	30	518
Fajen, Gustav, Milwaukee, Wis. Gas-meter	312,106	Feb. 10	869	238	30	518
Falconnet, Eugene F., Nashville, Tenn. Vessel for aerial navigation	311,885	Feb. 10	555	152	30	460
Falconnet, Eugene F., Nashville, Tenn. Vessel for aerial navigation	311,886	Feb. 10	559	153	30	461
Falconnet, Eugene F., Nashville, Tenn. Vessel for aerial navigation	311,887	Feb. 10	563	154	30	461
Falconnet, Eugene F., Nashville, Tenn. Vessel for aerial navigation	311,888	Feb. 10	568	155	30	462
Falconnet, Eugene F., Nashville, Tenn. Vessel for aerial navigation	312,344	Feb. 17	1219	336	30	590
Fales, Edward, St. Louis, Mo. Window and door screen	319,685	June 9	961	255	31	1224
Fales, Edward A., Indianapolis, Ind. Making ammonium sulphate	318,672	June 2	61	15	31	1059
Fales, Giles S., New Bedford, Mass. Instrument for dosing animals	323,406	Aug. 4	32	8	32	529
Fales, Samuel H., New Haven, Conn. Coal-stove	331,622	Dec. 1	573	140	33	1098
Falkenthal, Henry, Bozeman, Mont. Ter. Washing-machine	323,133	July 28	2347	623	32	451
Falkner, John, Orange, N. J. Refrigerator	332,884	Dec. 22	2372	627	33	1441
Fall, Louis, Lima, Ohio. Sewer-trap	320,918	June 30	2676	711	31	1568
Fall Mountain Paper Company. (See Smith, Richard, assignor.)						
Faller, Jacob, Covington, Ky. Pump	328,472	Oct. 20	1261	328	33	245
Fallis, George T., St. Joseph, Mo. Safety-gate for elevators	324,544	Aug. 18	1547	437	32	825
Fallon, William, Newburg, N. Y. Dumping car and scow	330,101	Nov. 10	921	239	33	687
Falls Automatic Door Spring and Check Company. (See Falls, William F., assignor.)						
Falls Rivet Company. (See Babcock, Erskine L., assignor.)						
Falls, William F., Boston, Mass., assignor to Falls Automatic Door Spring and Check Com- pany. Combined door spring and check	329,032	Oct. 27	2044	530	33	394
Falvey, Cornelius, Norwich, Conn. Loom-shuttle	320,919	June 30	2677	711	31	1568
Fancher, Ward I. (See Grimm and Fancher.)						
Fanning, Franklin, St. Joseph, Mo. Windmill	318,175	May 19	1668	447	31	847
Farbenfabriken, vormals Friedr. Bayer & Co. See Fischer, Friedrich, assignor.)						
Farbenfabriken, vormals Friedr. Bayer & Co. (See Frank, Eugen, assignor.)						
Farbfabrik, vormals Brönnner. (See Prinz, Hugo, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Conrad, Max, assignor.)						
Faries, Robert, Decatur, Ill. Machine for forming interlocking eyes	321,013	June 30	2803	745	31	1591
Faries, Robert, Decatur, Ill. Twister-head for machines for forming interlocking eyes	333,121	Dec. 29	2711	711	33	1509
Faries, Robert, Decatur, Ill., assignor to Farmers Friend Manufacturing Company, Day- ton, Ohio. Check-rower for corn-planters	326,292	Sept. 15	1424	370	32	1292
Faris, David J., Windom, Kans. Station-indicator for railway-cars, &c	323,407	Aug. 4	33	8	32	529
Farley, John C., Hearne, Tex. Stalk and clod cutter	323,601	Dec. 15	1977	517	33	1363
Farmer, David J., Penn Yan, assignor of one-half to R. N. Gere, Syracuse, N. Y. Horse- shoe-machine	331,623	Dec. 1	574	140	33	1098
Farmer, David J., Penn Yan, assignor of one-half to R. N. Gere, Syracuse, N. Y. Horse- shoe-machine	331,624	Dec. 1	578	141	33	1099
Farmer, David J., Penn Yan, assignor of one-half to R. N. Gere, Syracuse, N. Y. Horse- shoe-awaging machine	331,625	Dec. 1	581	143	33	1099
Farmer, David J., Penn Yan, assignor of one-half to R. N. Gere, Syracuse, N. Y. Horse- shoe-awaging machine	331,626	Dec. 1	583	143	33	1099
Farmer, Henry A. (See Fox, George E., assignor.)						
Farmer, James, Salford, county of Lancaster, England, and A. Lalance, Mülhausen, Ger- many. Apparatus for bleaching and dyeing	313,306	Mar. 3	392	97	30	848
Farmer, James, Salford, county of Lancaster, England, and A. Lalance, Mulhouse, Ger- many. Apparatus for washing, bleaching, and dyeing fabrics	318,888	May 26	2627	697	31	1029
Farmer, Luther C., Minneapolis, Minn. Type-writing machine	317,753	May 12	1101	289	31	732
Farmer, Moses G., New York, N. Y. Movement-cure apparatus	310,395	Jan. 6	310	86	30	60
Farmer, Moses G., Newport, R. I. Apparatus for manufacturing compound telegraph- wire	310,993	Jan. 20	1086	297	30	215
Farmer, Moses G., Newport, R. I. Apparatus for coating wire with metal	310,994	Jan. 20	1087	297	30	215
Farmer, Moses G., Newport, R. I. Manufacturing compound telegraph-wire	310,995	Jan. 20	1088	298	30	215
Farmer, Moses G., Newport, R. I. Flexible shaft	312,241	Feb. 10	1065	293	30	553
Farmer, Moses G., Newport, R. I. Repeater for submarine cables	312,831	Feb. 24	1873	513	30	719
Farmer, Moses G., New York, N. Y. Apparatus for refining copper by electrolysis	315,265	Apr. 7	394	98, 99	31	72
Farmer, Moses G., New York, N. Y. Apparatus of obtaining aluminium	315,266	Apr. 7	396	99	31	72
Farmer, Moses G., Newport, R. I. Telephone-transmitter	316,133	Apr. 21	1609	420	31	305
Farmer, Moses G., Newport, R. I. Metallic shingle	316,134	Apr. 21	1611	421	31	305
Farmer, Moses G., New York, N. Y. Electric-arc lamp	316,765	Apr. 28	2473	645	31	467
Farmer, Moses G., New York, N. Y. Medical rubbing apparatus	317,327	May 5	547	139	31	623
Farmer, Moses G., New York, N. Y. Movement-cure apparatus	317,328	May 5	548	139	31	623
Farmer, Moses G., New York, N. Y. Exercising-machine	319,686	June 9	962	255	31	1235
Farmer, Moses G., New York, N. Y. Electro-depositing copper	319,687	June 9	963	255	31	1235
Farmer, Moses G., New York, N. Y. Regulator for dynamo-electric machines	320,324	June 16	1725	458	31	1378
Farmer, Moses G., New York, N. Y. Apparatus for refining copper by electricity	322,169	July 14	1040	270	32	197
Farmer, Moses G., New York, N. Y. Apparatus for refining copper by electricity	322,170	July 14	1041	270	32	197
Farmer, Moses G., Newport, R. I. Cable-recorder	322,918	July 28	2045	540	32	395
Farmer, Moses G., New York, N. Y. Regulator for electric motors	323,650	Aug. 4	352	100	32	589

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Farmer, Moses G., Newport, R. I. Electro-magnetic heating apparatus	323,651	Aug. 4	354	100	32	588
Farmer, Moses G., Newport, R. I. Electro-magnetic motor	323,652	Aug. 4	355	101	32	588
Farmer, Moses G., Newport, R. I. Electric motor	323,653	Aug. 4	357	102	32	589
Farmer, Moses G., New York, N. Y. Exercising chair	325,519	Sept. 1	412	102	32	1095
Farmer, Moses G., Newport, R. I. Telephone-repeater	325,920	Sept. 8	929	235	32	1194
Farmer, Moses G., Newport, R. I. Metallic shingle	326,108	Sept. 15	1176	301	32	1246
Farmer, William H., Nottingham, England. Device for securing the needles in embroidering-machines	322,704	July 21	1745	461	32	334
Farmers Friend Manufacturing Company. (See Faries, Robert, assignor.)						
Farmers Friend Manufacturing Company. (See Runstetter, Michael and A., assignors.)						
Farmers Friend Manufacturing Company et al. (See Runstetter, Michael and A., assignors.)						
Farnham, Isaiah H., assignor to American Bell Telephone Company, Boston, Mass. Apparatus for testing electrical circuits	325,520	Sept. 1	413	102	32	1095
Farnham, Isaiah H., Deering, Me., assignor to American Bell Telephone Company, Boston, Mass. Electric signaling apparatus	328,578	Oct. 20	1403	365	33	271
Farnsworth, George. (See Ladd, Dennis O., assignor.)						
Farquhar, Arthur B., York, Pa. Power hay-press	330,472	Nov. 17	1416	377	33	790
Farr, Edward W. (See Farr and Seward, assignors.)						
Farr, George, and A. B. Seward, Cincinnati, Ohio; said Seward assignor to E. W. Farr, Peoria, Ill. Smoke-preventing furnace	317,935	May 12	1343	361	31	779
Farr, Hiram G., Boston, Mass. Vaginal dilator	316,611	Apr. 28	2240	590	31	425
Farr, Hiram G., Boston, Mass. Self-lubricating axle	316,612	Apr. 28	2241	590	31	425
Farr, Hiram G., Boston, Mass. Surcingle	316,613	Apr. 28	2241	590	31	425
Farr, Hiram G., Boston, Mass. Truss-pad	321,091	June 30	2913	774	31	1611
Farra, Lorenzo D., assignor of one-half to H. F. McCann, Philadelphia, Pa. Machine for rolling irregular forms	312,107	Feb. 10	870	238	30	518
Farra, Lorenzo D., assignor of one-half to H. F. McCann, Philadelphia, Pa. Mechanical movement	321,199	June 30	3048	807	31	1635
Farrand, Florence A., et al. (See Farrand, Nathaniel W., assignor.)						
Farrand, Nathaniel W., assignor to F. A. Farrand, Westfield, and E. U. Clark, East Ham- burg, N. Y. Screw-driver	320,920	June 30	2678	711	31	1568
Farrar, Benjamin F., San Francisco, Cal. Folding bed	319,083	June 2	186	49	31	1062
Farrar, Benjamin F., San Francisco, Cal. Folding bed	327,076	Sept. 29	2513	655	32	1503
Farrar, Benjamin F., San Francisco, Cal. Folding bed	327,077	Sept. 29	2514	656	32	1503
Farrar, Eugene W. et al. (See Anderson, Charles, assignor.)						
Farrar, Frederick, Boston, Mass. Wrench	331,627	Dec. 1	585	144	33	1100
Farrar, Isaac, and J. A. Powers, Boston, Mass., assignors, by mesne assignments, to said Isaac Farrar. Fire-escape	311,889	Feb. 10	577	158	30	464
Farrrel, John, New York, N. Y. Fire-proof safe	328,113	Oct. 13	792	206	33	150
Farrrell, Charles, Peekskill, assignor to Ely & Ramsay, New York, N. Y. Frame for stove- doors	333,401	Dec. 29	3068	805	33	1576
Farrrell, Robert W., Wheatland, Ind. Railway-switch	310,396	Jan. 6	311	86	30	60
Farris, John, Hartford, Conn. Stringed musical instrument	315,135	Apr. 7	194	42	31	35
Fasnacht, Louis U., New Orleans, La. Machine for treating ramie and sugar-cane	324,674	Aug. 18	1737	478	32	861
Fath, Leonard G., et al. (See Coe, Charles E., assignor.)						
Faught, Luther R., Philadelphia, Pa. Boring-bar	311,652	Feb. 3	254	71	30	396
Faught, Luther R., Philadelphia, Pa. Car-wheel	321,590	July 7	247	65	32	48
Faught, Luther R., Philadelphia, Pa. Metal-boring bit	327,148	Sept. 29	2617	682	32	1521
Faught, Luther R., Philadelphia, Pa. Device for holding metal-cutters	327,149	Sept. 29	2619	682	32	1521
Faught, Luther R., Philadelphia, Pa. Car-wheel	327,150	Sept. 29	2621	682	32	1521
Faught, Luther R., Philadelphia, Pa. Device for holding metal-cutters	327,151	Sept. 29	2623	683	32	1522
Faul, William J., New York, N. Y. Making lubricating-cartridges	330,102	Nov. 10	922	239	32	687
Faulhaber, George, Cleveland, Ohio. Seat-back	331,122	Nov. 24	2249	611	33	955
Faulkner, Alfred, Jersey City, N. J. Sewing-machine	322,533	July 21	1517	400	32	292
Faulkner, Denamore R. (See Tebbets and Faulkner.)						
Faulkner, Elza T. (See Faulkner, James J. and E. T.)						
Faulkner, James D., Coburn's Store, N. C. Cotton-chopper	312,108	Feb. 10	871	239	30	519
Faulkner, James J. and E. T., McMinnville, Tenn. Grinding-mill	336,880	Nov. 24	1933	523	33	896
Faulkner, Katie. (See Weber, Theodore A., assignor.)						
Faulkner, Thomas H., McMinnville, Tenn. Wool burring and picking machine	332,651	Dec. 15	2047	537	33	1376
Favor, Lorenzo B., and C. A. Jacobs, Gloucester, Mass. Electro-magnetic log	326,207	Sept. 15	1323	343	32	1273
Fawcett, William N., and G. F. Huntley, Brooklyn, N. Y. Electric-wire insulator and supporter	328,929	Oct. 27	1877	490	33	364
Fawell, Joseph. (See Holden, Burnley, and Fawell.)						
Fawkes, L. R. (See Adair, Richard H., assignor.)						
Fay, Bernard. (See Elwell and Fay.)						
Fay, Charles P., Springfield, Mass. Spring-calipers	319,215	June 2	338	90	31	1111
Fay, Franz A., Brooklyn, N. Y. Machine for making wires for metallic seals	326,283	Sept. 15	1426	371	32	1292
Fay, James J., New Bedford, Mass. Cuff-fastener	312,109	Feb. 10	872	239	30	519
Fay, Norman H., and W. Scott, Dexter, Me. Bolt-dog for lathes	319,472	June 9	679	183	31	1183
Fay, Richard C., Jersey City, N. J. Pen-holder	325,921	Sept. 8	930	235	32	1195
Fay, Rimmon C. (See Northrop and Fay.)						
Fay, Rimmon C., Hopedale, Mass. Lathe	329,381	Oct. 27	2552	658	33	485
Fay, Rimmon C., Hopedale, Mass. Lathe	332,335	Dec. 15	1595	419	33	1298
Fay, Rimmon C., assignor to G. Draper & Sons, Hopedale, Mass. Spindle-boister	332,067	Dec. 8	1220	318	33	1225
Fay, Rimmon C., assignor to Hopedale Machine Company, Hopedale, Mass. Spindle-sup- port	332,068	Dec. 8	1221	319	33	1225
Faymonville, Bernard, San Francisco, Cal. Automatic grade-delineator	321,591	July 7	249	66	32	48
Faymonville, Bernard, San Francisco, Cal. Electro-magnetic speed-register for ships' logs	323,134	July 28	2348	623	32	451
Fearey, Jobez. (See Hoffmann, Edmond H., assignor.)						
Fearis, James H., Connerville, Ind. Bottom for roller-skates	323,135	July 28	2349	623	32	452
Feast, John, Sr., Baltimore, Md. Cultivator	311,303	Jan. 27	1537	418	30	303
Feather, Smith. (See Drake and Feather.)						
Fecher, Lorance, Jr., and W. F. Olin, assignors to W. Deering, Chicago, Ill. Grain-binder	315,754	Apr. 14	1067	285	31	204
Fechtelmer, Sigmund, New York, N. Y. Shirt and necktie fastener	310,661	Jan. 13	640	176	30	128
Fechteler, Henry, New York, N. Y. Bas-relief advertising-sign	331,980	Dec. 1	50	19	33	1008
Fee, John D., Chicago, Ill. Signaling device	332,336	Dec. 15	1598	420	33	1298
Fefel, Henry H., assignor of three-fourths to H. Brooks, Philadelphia, Pa. Sewing-ma- chine trimmer	311,734	Feb. 3	354	97, 98	30	415

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Feintheil, Frederick J., and J. G. Dinkelbiller, Cincinnati, Ohio. Mail-bag	329,155	Oct. 27	2219	574	33	494
Feiss, Julius, Cleveland, Ohio. Combination-pocket for pantaloons	319,570	June 9	812	216	31	1207
Feister, Henry P., Philadelphia, Pa. Paper-cutting machine	319,473	June 9	680	183	31	1183
Feister, Henry P., Philadelphia, Pa. Printing-machine	323,925	Aug. 11	703	197	32	663
Feister, Henry P., Philadelphia, Pa. Gas-engine for railway-cars	394,244	Aug. 11	1142	311 312	32	742
Feister, Henry P., assignor to M. and W. H. Nixon, Philadelphia, Pa. Paper bag	325,922	Sept. 8	931	236	32	1195
Felbel, Jacob, assignor to L. Lawrence, New York, N. Y. Pen-holder	330,881	Nov. 24	1934	524	33	697
Feldhaus, Henry B. (See Fink, John M., assignor.)						
Felding, William I. (See Turnbull, Andrew, assignor.)						
Felker, Henry, Verona, assignor to Munroe & Co., Dunbarton, N. Y. Glass-furnace stone	330,473	Nov. 17	1417	378	33	791
Fell, Thomas M., Brooklyn, assignor to United States Steam Specialty Company, New York, N. Y. Relief-valve for steam-engine cylinders	310,935	Jan. 20	1001	271	30	198
Fell, Thomas M., Brooklyn, assignor to United States Steam Specialty Company, New York, N. Y. Relief-valve for steam-engine cylinders	319,571	June 9	813	216	31	1207
Fellers, Noah, McComb, Ohio. Screw-driver	327,780	Oct. 6	358	93	33	65
Fellowa, Alfred, Clinton, Iowa. Spring-back for vehicle-seats	316,449	Apr. 28	2041	535	31	387
Fellowa, Edward A., Reading, Mass. Closing the openings in rubber bottles and other similar rubber articles	321,491	July 7	109	29	32	22
Fellowa, Henry, Wichita, Kans. Swing	330,306	Nov. 10	1180	315	33	739
Felton, Benjamin W., Boston, Mass. Hot-air furnace	313,065	Mar. 3	39	10	30	785
Felton, Hamlet S., Chester, Ill. Adjustable chair	328,853	Oct. 20	1806	470	33	344
Felton, Walter S., assignor to North Fairfield Plow Company, North Fairfield, Ohio. Plow attachment	332,652	Dec. 15	2048	538	33	1376
Fenn, Wallace T., Wethersfield, assignor to Kellogg & Bulkley Company, Hartford, Conn. Calendar	328,768	Oct. 20	1654	433	33	317
Fennell, Joseph, Cynthiana, Ky. Horse-boot	317,525	May 12	809	208	31	678
Fennell, Martin, assignor of one-half to J. McNamara, Skaneateles, N. Y. Car-coupling	321,014	June 30	2805	746	31	1592
Fennell, Thomas J., Elmira, N. Y. Air-blast mechanism for furnaces	325,330	Sept. 1	134	37	32	1040
Fenner, Birdie L. (See Leeds, Lodowick, assignor.)						
Fenner, George P., New London, Conn. Printing-press	311,735	Feb. 3	355	98	30	416
Fenner, George P., New London, Conn. Sheet-filer for printing-presses	317,329	May 5	549	140	31	623
Fenner, George P., New London, Conn. Dampening apparatus for lithographic presses	318,364	May 19	1924	519	31	894
Fenner, George P., New London, Conn. Sheet-delivery apparatus	324,245	Aug. 11	1145	312	32	743
Fenner, Obadiah B., Oakland, Cal. Rowlock	314,059	Mar. 31	2194	582	30	1235
Fenner, Richard E., assignor to C. K. Giles, Chicago, Ill. Watch-case	323,654	Aug. 4	360	102	32	569
Fennerty, John M., Memphis, Tenn. Car-window	323,408	Aug. 4	34	9	32	529
Fenton, Charles, assignor to A. H. Vescelius, New York, N. Y. Folding bed	323,600	Aug. 4	539	153	32	624
Fenton, Ephraim H., Kansas City, Mo. Calk-sharpener	324,901	Aug. 25	2173	584	32	945
Fenton, Hiram C., assignor of one-half to G. C. Emerson, Hartford, Conn. Bench-clamp	322,434	July 21	1376	360	32	268
Fenton, John H., Chicago, Ill. Elastic horse-boot	317,526	May 12	810	208	31	678
Fenton, John H., Chicago, Ill. Animal-guard	318,973	June 2	62	16	31	1059
Fenton, John H., Chicago, Ill. Roller-skate	331,291	Dec. 1	51	12	33	1008
Fenton, Sally M., Salinas, Cal. Dish-washer	325,792	Sept. 8	777	194	32	1165
Fenton, William T., New York, and D. S. B. Bennet, Brooklyn, N. Y. Apparatus for combining hot air and steam for heating purposes and power	320,768	June 23	2476	656	31	1525
Ferensen, Louis W. (See Butts, V. Winslow, assignor.)						
Ferer, James W., assignor of one-third to A. E. Well, Renova, Pa. Baluster	310,807	Jan. 13	827	224	30	162
Fergus, David M., and J. A. Griffiths, Philadelphia, Pa. Combined ejector and injector	323,503	Aug. 4	158	47	32	552
Ferguson, Alvah P., Dexter, Mich. Road-cart	326,414	Sept. 15	1595	415	32	1324
Ferguson, Arthur C., assignor to Ferguson Platform and Life-Bridge Company, Saratoga Springs, N. Y. Freight-car platform	330,216	Nov. 10	1063	278	33	715
Ferguson, Charles M., Charles City, Iowa. Railway-track gage, level, and gradient	329,695	Nov. 10	641	174	33	632
Ferguson, George J., Greenville, Tex. Car-coupling	325,923	Sept. 8	932	236	32	1195
Ferguson, George W., Jr., New York, N. Y. Drapery-pin	325,924	Sept. 8	933	236	32	1195
Ferguson, James. (See Rice, David H., assignor.)						
Ferguson, James, Bridgewater, Mass. Car-wheel	331,292	Dec. 1	52	12	33	1009
Ferguson, James M., New Orleans, La. Boiler-flue cleaner	331,792	Dec. 8	800	202	33	1148
Ferguson, James S., et al. (See Kidder, George R., assignor.)						
Ferguson, John S., Lewisville, Tex. Fence	323,032	July 28	2214	585	32	424
Ferguson Platform and Life-Bridge Company. (See Ferguson, Arthur C., assignor.)						
Ferguson, Robert S., Waukegan, W. Schumacher, and W. Tubman, Chicago, Ill. Compound for insulating electric wires	320,921	June 30	2679		31	1569
Ferguson, Sylvester E., assignor to himself and A. McCartney, Eureka Springs, Ark. Combined bee swarmer and hive	316,349	Apr. 21	1877	497	31	353
Ferguson, Thomas. (See Coffin and Ferguson.)						
Ferguson, Thomas M., Suwanee, Miss. Horse-detacher	310,808	Jan. 13	828	224	30	162
Ferguson, William R., Marselles, Ill. Road-grading machine	319,474	June 9	682	183	31	1184
Ferguson, William T., Corning, Kans. Harrow and land-roller	322,919	July 28	2046	540	32	395
Fergusson, John W., Sardin, Miss. Car-coupling	312,110	Feb. 10	873	239	30	519
Fern, John, Scranton, Pa. Miner's lamp	326,858	Sept. 22	2226	581	32	1445
Fernandez, Filomeno. (See Mason and Fernandez.)						
Fernie, John, Philadelphia, Pa. Ventilating apparatus for rocking-chairs	322,705	July 21	1746	461	32	334
Feroe, Alfred E., Poughkeepsie, N. Y. Making sirup and beer from maize	324,761	Aug. 18	1849	509	32	882
Ferrall, Thomas R., Boston, Mass., assignor to Bagnall & Loud Block Company. Anti-frictional bearing	321,350	June 30	3229	860	31	1670
Ferrall, Thomas R., Boston, Mass., assignor to Bagnall & Loud Block Company. Anti-frictional bearing	321,351	June 30	3230	861	31	1670
Ferrall, Thomas R., assignor to Bagnall & Loud Manufacturing Company, Boston, Mass. Anti-friction bearing	328,394	Oct. 13	1161	300	33	219
Ferrando, Joseph, Genoa, Italy. Steam-boiler	324,545	Aug. 18	1550	427	32	826
Ferrari, Andrew, assignor to Whitney Brothers, Glassborough, N. J. Glass-furnace	330,307	Nov. 10	1181	315	33	739
Ferrier, Francis, Vallejo, Cal. Roller-mill	312,623	Feb. 24	1590	435	30	669
Ferrier, Francis, Vallejo, Cal. Bolting-reel	319,572	June 9	815	217	31	1207
Ferris, Eaton E., Beverly, Mass. Ventilating the hull of a navigable vessel	313,066	Mar. 3	40	10	30	785
Ferris, George D., Springfield, Ill. Mechanical movement	331,695	Dec. 1	679	168	33	1118
Ferris, George L., Mexico, Mo. Washing-machine	330,573	Nov. 17	1535	411	33	813
Ferris, Henry L. (See Hunt, Ferris, and Helm.)						
Ferris, Laning L., New York, N. Y. Letter-file	337,389	Sept. 29	2934	706	32	1577
Ferris, Sherwood B., Lakewood, N. J. Stocking or garment supporter	314,813	Mar. 31	2415	638	30	1277
Ferris, Sherwood B., Lakewood, N. J. Corset	327,781	Oct. 6	358	93	33	63
Ferris, Sherwood B., Lakewood, N. J. Working button-holes	329,635	Nov. 3	286	73	33	559

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Ernst, Charles. (See Hoffmann and Ernst.)						
Fertig, John T., Denver, Colo. Belt-tightener	312,989	Feb. 24	2073	565	30	755
Fertig, John T., Denver, Colo. Belt clamp and tightener	324,546	Aug. 18	1551	428	32	826
Fessler, Walter W., New York, N. Y. Sleeping-car	310,809	Jan. 13	829	225	30	162
Fossy, Jean B., Saint-Etienne, Loire, France. Bleaching paper-pulp, &c.	311,425	Jan. 27	1709	465	30	334
Fetherolf, Beneville L., Tamaqua, Pa. Gripping device for cable railways	318,098	May 19	1568	420	31	827
Fetters, David, Baltimore, Md. Glass-furnace	319,688	June 9	964	256	31	1235
Feuchter, Christian. (See Wiehle, Lorey, and Feuchter.)						
Feurle, John G. (See Tiffany, David B., assignor.)						
Feyen Thomas, Dubuque, Iowa. Double-tree protector	317,105	May 5	229	58	31	565
Feyh, Henry, and J. L. Murphy, assignors to L. Power & Co., Philadelphia, Pa. Wood-planing machine	320,769	June 23	2477	656	31	1525
Fiberlene Collar Company. (See Butterworth, Robert, assignor.)						
Fiberlene Collar Company. (See March, George N., assignor.)						
Fichtenberg, Werner, New York, N. Y. Pin-fastener for neckties	327,782	Oct. 6	360	93	33	64
Fiengenbaum, Edward W., Edwardsville, Ill. Fire-escape	314,287	Mar. 24	1691	451	30	1117
Field, Cyrus W., Jr., New York, N. Y. Screw-propelled vessel	323,243	Dec. 15	1475	385	33	1275
Field, Edwin S., Springfield, assignor of one-half to J. M. Davis and J. G. Soderberg, Worcester, Mass. Spring-callipers	333,244	Dec. 15	1477	386	33	1276
Field, Frank R., Greenfield, Mass. Electric clock	324,824	Aug. 25	1943	534	32	907
Field, Frank R., Greenfield, Mass. Electric clock	328,769	Oct. 20	1655	432	33	317
Field, Henry, Jr., New Bedford, Mass. Car-coupling	322,591	July 21	1596	421	32	306
Field, Horace T., assignor of one-half to C. W. Hodgdon, Boston, Mass. Movement-indicator	310,860	Jan. 13	890	241	30	174
Field, James A., St. Louis, Mo. Grinding-mill	314,370	Mar. 24	1803	479	30	1138
Field, John C., New York, N. Y. Glove-fastening	323,926	Aug. 11	705	198	32	663
Field, Martin S. (See Amundson and Field.)						
Field, Osmond H., Kiantone, N. Y. Sulky-plow	311,736	Feb. 3	356	92.99	30	416
Field, Stephen D. (See Healy, Clarence L., assignor.)						
Field, William R., New York, N. Y. Book-holder	330,882	Nov. 24	1935	524	33	897
Fielding, James B. (See Bryan and Fielding.)						
Fielding, John. (See Tweddell, Platt, and Fielding.)						
Fielding, John, Gloucester, county of Gloucester, England. Rotary motor	324,246	Aug. 11	1147	313	32	744
Fielding, William L., New Britain, Conn. Bolster bed-bottom	323,572	Aug. 4	947	73	32	568
Fields, Charles C., Bristol, Tenn. Welding compound	313,716	Mar. 10	916		30	957
Fields, Charles H., assignor of one-half to E. S. Turner, Chicago, Ill. Hame	326,490	Sept. 15	1682	439	32	1340
Pife, Joel A., Chicago, Ill. Box and pad for canceling stamps	322,534	July 21	1518	400	32	292
Pifield, David E., et al. (See Blakely, Caleb J., assignor.)						
Pifield, John W. D., and W. H. Holt, North Brookfield, Mass. Crimping-machine for boots and shoes	320,033	Oct. 27	2046	531	33	394
Pilkins, Adelbert, Maltville, N. Y. Thill-coupling	325,331	Sept. 1	134	37	32	1040
Pillebrown, Jairus A. (See Pillebrown, Luther W. and J. A.)						
Pillebrown, Jairus A. (See Pillebrown, Gray, and Pillebrown.)						
Pillebrown, Luther W., S. S. Gray, and J. A. Pillebrown, Piqua, Ohio; said L. W. and J. A. Pillebrown assignors to said Gray. Wire-fence machine	314,442	Mar. 24	1894	506	30	1156
Pillebrown, Luther W. and J. A. Piqua, Ohio. Machine for making wire fences	322,086	July 14	940	{ 243 } { 244 }	32	120
Filley, Horace A., Jackson, Mich. Gate	312,832	Feb. 24	1876	514	30	720
Fillmann, Emil, Chicago, Ill. Molding	320,644	June 23	2325	614	31	1494
Fillmore, Charles W., Marengo, Ill. Hub for vehicle-wheels	324,927	Aug. 25	2082	570	32	933
Fillmore, Charles W., Marengo, Ill. Hub for vehicle-wheels	324,928	Aug. 25	2083	570	32	933
Filly, Albert, New York, N. Y. Printer's rule-mitering machine	328,017	Oct. 13	664	175	33	127
Filson, Hiram G., New Cumberland, W. Va. Implement used in the manufacture of cans, &c.	327,247	Sept. 29	2744	712	32	1545
Finch, James B., assignor of one-half to A. Albright, Newark, N. J. Horseshoe	325,664	Sept. 8	598	151	32	1133
Finch, John M., Jackson, Mich. Roller-mill	313,816	Mar. 10	1055	{ 271 } { 272 }	30	922
Finch, John M., assignor to Knickerbocker Company, Jackson, Mich. Dust-collector	325,521	Sept. 1	415	{ 102 } { 103 }	32	1095
Finck, Julius, assignor to Will & Finck, San Francisco, Cal. Door-opener	323,308	July 28	2603	692	32	496
Finck, Julius, assignor to Will & Finck, San Francisco, Cal. Door-operating device	328,114	Oct. 13	793	207	33	150
Finck, Nicholas, Elizabeth, N. J. Device for enriching gas supplied to burners	324,992	Aug. 25	2176	595	32	949
Fine, James F., Lake, Wash. Ter. Water-carrier	315,267	Apr. 7	397	98	31	72
Fink, Henry L., Nebraska, Ind. Car-coupling	328,303	Oct. 13	1026	266	33	194
Fink, John B., assignor of one-third to T. R. Diehl, Claussville, Pa. Sad-iron	317,936	May 12	1345	362	31	779
Fink, John M., assignor of one-half to H. B. Feldhaus, Louisville, Ky. Riding-saddle	318,610	May 26	2255	602	31	962
Finkbner, David, et al. (See Cateley, Edward L., assignor.)						
Finkelson, Andrew. (See Hendryx, Samuel V., assignor.)						
Finkle, Charles E., Rochester, N. Y. Button-hole finishing, cording, and staying device	322,304	Oct. 13	1027	266	33	195
Finkle, Joseph. (See Jennings, Isaac B., assignor.)						
Finlay, William G., Lawrence, Mass. Paper-cutting machine	326,859	Sept. 22	2227	581	32	1445
Finley, Jonas J., assignor of one-half to G. S. Dulin, New Carlisle, Ind. Burial-case	320,561	June 23	2590	686	31	1546
Finley, William L., Washington, D. C. Ink-eraser	313,717	Mar. 10	916	238	30	957
Finnegan, John, Philadelphia, Pa. Support for steam-pipes	324,929	Aug. 25	2085	570	32	933
Finnerty, Thomas, Baltimore, Md. Coal-cart	320,217	Nov. 10	1064	278	33	716
Finney, Henry E., Chicago, Ill. Spring-seated butt-cap for guns	323,930	Oct. 27	1878	{ 490 } { 491 }	33	365
Fire Extinguisher Manufacturing Company. (See Steck, Ernest, assignor.)						
Firm, Joseph L. (See Crane and Firm.)						
Firman, Leroy B., assignor to Western Electric Manufacturing Company, Chicago, Ill. Telephone-exchange system and apparatus	322,305	Oct. 13	1028	267	33	195
Fischbach, Wilhelm. (See Peschel, Alexander, assignor.)						
Fischbeck, Frederick, Chicago, Ill. Sofa-bed	329,543	Nov. 3	167	44	33	537
Fischer, Adolph, Ravenswood, N. Y. Tap-hole bush	320,692	June 23	2591	686	31	1546
Fischer, Albert, et al. (See Ackermann, George, assignor.)						
Fischer, August, et al. (See Naramore, Henry L., assignor.)						
Fischer, Benedict, et al. (See Marion, Joseph, assignor.)						
Fischer, Charles H., assignor to Archer & Pancoast Manufacturing Company, New York, N. Y. Insulating pipe-unions	320,645	June 23	2226	615	31	1494
Fischer, Conrad, and L. Grother, Brownsville, Mo. Harrow	325,065	Aug. 25	2267	623	32	967
Fischer, Emil, Calliope, Iowa. Gate	320,474	Nov. 17	1418	378	33	791
Fischer, F. Louis, Pittsburg, Pa. Adjustable holder for pens, pencils, &c.	311,181	Jan. 27	1359	372	30	871
Fischer, Friedrich, Barmen, Prussia, Germany. Production of new violet dye-stuffs	329,630	Nov. 3	227		33	559
Fischer, Friedrich, Barmen, Prussia, Germany. Violet coloring-matter	329,637	Nov. 3	228		33	559

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Fischer, Friedrich, Barmen, assignor to Farbenfabriken, vormals Friedr. Bayer & Co., Elberfeld, Germany. Manufacture of violet dye-stuff.	325,827	Sept. 8	825	32	1174
Fischer, Friedrich, Barmen, assignor to Farbenfabriken, vormals Friedr. Bayer & Co., Elberfeld, Germany. Violet methyl dye-stuff.	325,828	Sept. 8	826	.....	32	1170
Fischer, George, Quincy, Ill. Chimney cowl and ventilator.	330,883	Nov. 24	1936	525	31	897
Fischer, John A., Covington, Ky. Saw-set.	318,712	May 26	2385	636	31	966
Fischer, John J. (See Wostenholm, George, assignor.)						
Fischer, Joseph, Elizabeth, N. J. Car-axle box.	328,204	Oct. 13	904	235	33	172
Fischer, Philipp, New York, N. Y. Boot or shoe.	321,200	June 30	3048	808	31	1636
Fischer, Wilhelm, Lelpsic, Saxony, Germany. Piano-action.	321,201	June 30	3050	808	31	1636
Fischer, Wilhelm, and R. Busek, Vienna, Austria-Hungary. Machine for making bolts, rivets, &c.	311,969	Feb. 10	691	189 190	30	484
Fiset, Michel, Albany, N. Y. Device for securing a series of drawers.	332,337	Dec. 15	1600	430 431	33	1299
Fish, Abner C., assignor to M. L. Fish, Racine, Wis. Road-cart.	321,806	July 7	541	142	32	101
Fish, Edwin R., Chicago, Ill. Combined stop and end-gate.	325,665	Sept. 8	599	151	32	1133
Fish, George M. (See Hill, Christian C., assignor.)						
Fish, H. Clay, Brooklyn, N. Y. Stewing-kettle or boiler.	318,385	May 19	1925	519	31	895
Fish, John, Wabash, Ind. Car-coupling.	326,415	Sept. 15	1596	415	32	1324
Fish, John, Summit, N. J. Single-rail elevated-railway girder.	328,395	Oct. 13	1162	300	33	290
Fish, John, Summit, N. J., assignor of one-third to L. Burhaus, Brooklyn, N. Y. Steam-generator.	331,783	Dec. 8	801	203	33	1149
Fish, Sidell E., and C. G. King, Greenport, N. Y. Poker, tonga, and stove-lid lifter.	331,954	Dec. 8	1050	273	33	1196
Fish, Warren L., Newark, N. J. Fly-wheel clutch.	319,068	June 18	1370	360	31	1314
Fish, Washington I., Amboy, Ill. Attachment for cultivators.	311,970	Feb. 10	695	190	30	484
Fish, William, Pleasant Hill, Ohio. Whip.	319,689	June 9	965	256	31	1235
Fish, William A., et al. (See Reagles, Isaac V., assignor.)						
Fisher, William H. (See Terrell and Fish.)						
Fisher, Alfred, Edwards, Miss. Nut-lock.	325,829	Sept. 8	827	207	32	1174
Fisher, Alfred A., and A. Hart, Brooklyn, N. Y. Sewing-machine.	316,350	Apr. 21	1879	487 488	31	353
Fisher, Alvin L., New Brunswick, N. J., assignor to Overman Wheel Company, Chicopee, Mass. Whistle.	321,202	June 30	2051	809	31	1636
Fisher, Charles, Manitowoc, Wis., assignor to International Store Service Company. Store-service apparatus.	314,814	Mar. 31	2416	639	30	1277
Fisher, Charles, Manitowoc, Wis., assignor to International Store Service Company. Store-service apparatus.	314,815	Mar. 31	2417	639	30	1278
Fisher, Charles A. (See Wright and Fisher.)						
Fisher, Charles A., Calvert, Tex. Oil-tank.	314,233	Mar. 24	1615	487	30	1103
Fisher, Charles H., Boston, and P. Schwamb, Arlington, Mass. Pressure-indicating gage.	323,033	July 28	2216	568	32	425
Fisher, Clark, Trenton, N. J. Rail-joint.	313,067	Mar. 3	41	11	30	785
Fisher, Daniel, Oil City, Pa. Expansion joint or coupling for pipes.	328,579	Oct. 20	1406	365	33	271
Fisher, David, Gear, Iowa. Ditching-machine.	331,875	Dec. 8	931	241	33	1172
Fisher, Ebenezer, Philadelphia, Pa., assignor to Steel Horse Collar Company, Fitchburg, Mass. Horse-collar.	320,863	June 23	2592	686 687	31	1547
Fisher, Elben C., Sissonville, W. Va. Corn-sheller.	322,535	July 21	1519	400	32	229
Fisher, Frank E., Detroit, Mich. Induction-coil.	314,816	Mar. 31	2419	639	30	1278
Fisher, Frank E., Detroit, Mich. Combined electrical and water ram for raising water.	319,805	June 9	1137	302	31	1265
Fisher, Frank E., assignor to Detroit Electrical Works, Detroit, Mich. Mechanism for operating telephone night-bells.	314,817	Mar. 31	2420	639 640	30	1278
Fisher, Frank E., assignor to Detroit Electrical Works, Detroit, Mich. Telephone-line switch.	314,818	Mar. 31	2422	640	30	1278
Fisher, Frank E., assignor to Detroit Electrical Works, Detroit, Mich. Talking-strap for telephone switch-boards.	314,819	Mar. 31	2423	640	30	1279
Fisher, George B. (See French, John M., assignor.)						
Fisher, George W., Baltimore, Md. Pea-sheller.	326,026	Sept. 8	1069	272	32	1220
Fisher, Guyon T., Ionia, Mich. Button-setting instrument.	316,025	Apr. 21	1453	379	31	276
Fisher, Jacob, Jr. (See Wilt, Benjamin, assignor.)						
Fisher, Jacob, and A. Coquillard, South Bend, Ind. Fire-escape.	331,123	Nov. 24	2250	612	33	956
Fisher, John J., Cleveland, Ohio. Draw-bench.	320,922	June 30	2680	712	31	1568
Fisher, John J., Cleveland, Ohio, and J. A. Herrick, New York, N. Y.; said Fisher assignor of one-third to said Herrick. Machine for making tubes.	311,477	Feb. 3	22	6	30	353
Fisher, Joseph, Attleborough, Mass. Weather-strip.	320,190	June 16	1578	416	31	1351
Fisher, Melissa C., Long Prairie, Minn. Stove-hood.	312,712	Feb. 24	1711	470	30	691
Fisher, Milton B., Johnstown, Pa. Stop-valve.	316,766	Apr. 28	2476	646	31	468
Fisher, Noble A., Sacramento, Cal. Clutch for cable railways.	310,397	Jan. 6	313	87	30	61
Fisher, Noble A., Sacramento, Cal. Mechanism for moving street-cars on curves.	315,491	Apr. 14	712	188	31	133
Fisher, Noble A., and T. K. Burgess, Sacramento, Cal. Horse-collar fastening.	320,646	June 23	2327	615	31	1494
Fisher, Peter, Oak Creek, Wis. Horse-power motor.	311,737	Feb. 3	358	99	30	416
Fisher, Robert A., Philadelphia, Pa. Disinfectant.	314,820	Mar. 31	2425	.....	30	1279
Fisher, Robert A., Philadelphia, Pa. Neutral sizing material for paper-makers' use.	321,092	June 30	2913	.....	31	1611
Fisher, Robert A., Philadelphia, Pa. Neutral sizing material for paper-makers' use.	321,093	June 30	2915	.....	31	1611
Fisher, Robert A., Philadelphia, Pa. Manufacture of an aluminous sizing material for paper-makers' use.	321,094	June 30	2917	.....	31	1611
Fisher, Robert A., Philadelphia, Pa. Manufacture of a sizing material for paper-makers' use.	321,095	June 30	2919	.....	31	1611
Fisher, Robert A., Philadelphia, Pa. Sizing material to be used in the manufacture of paper.	321,096	June 30	2920	.....	31	1611
Fisher, Robert A., Philadelphia, Pa. Manufacture of sizing for paper-makers' use.	321,097	June 30	2922	.....	31	1611
Fisher, Robert A., Philadelphia, Pa. Manufacture of sizing material for paper-makers' use.	321,098	June 30	2923	.....	31	1612
Fisher, Robert F., assignor to H. F. H. Bothe, Attleborough, Mass. Perfume-ejector.	323,409	Aug. 4	35	9	32	529
Fisher, Stephen D., Chicago, Ill. Furnace-grate.	311,971	Feb. 10	696	191	30	484
Fisher, Thomas J., Carthage, Tenn. Book-case.	833,210	Dec. 29	2681	741	83	1530
Fisher, William B. (See McMurray and Fisher.)						
Fisher, William H. (See Raabe and Fisher.)						
Fisher, William H., Cincinnati, Ohio. Holder for cartridge-shells.	325,066	Sept. 8	599	152	32	1133
Fisher, William H., Cincinnati, Ohio. Holder for supporting cartridge-shells.	328,018	Oct. 13	666	175	33	129
Fishkill Landing Machine Company. (See Cité, Joseph D., assignor.)						
Fishkill Manufacturing Company. (See Cotton and Hewes, assignors.)						
Fishwick, James, Mason, Ohio. Vehicle-wheel.	833,402	Dec. 29	3069	806	83	1576
Fisk, Asa S., Stevensville, Pa. Stove-hood.	310,398	Jan. 6	313	87	30	61
Fisk, Darwin B., Kalamazoo, Mich. Thrashing-machine elevator.	326,964	Sept. 20	2373	621	32	1478
Fisk, Darwin B., Kalamazoo, Mich. Signal-gate for draw-bridges.	326,965	Sept. 29	2374	621	32	1478

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Fisk, James, assignor to F. A. Everett, Quincy, Ill. Wire-fence machine.....	390,121	June 16	1579	{ 417 418 176 177 }	31	1351
Fisk, John N., St. James, New Brunswick, Canada. Combined derrick and carrier.....	325,738	Sept. 8	707	{ 176 177 }	32	1153
Fisk, Orville C., San Bernardino, Cal. Cot-bed.....	329,055	July 14	888	230	32	109
Fisk, Redford W., Council Grove, Kans. Churn-dasher.....	314,329	Mar. 24	1736	409	30	1196
Fiske, Bradley A., Washington, D. C. Arc-lamp-regulating mechanism.....	324,311	Aug. 11	1937	337	32	761
Fiske, Estelle, San Francisco, Cal. Lady's collar.....	332,507	Dec. 15	1839	480	33	1338
Fiske, George W. (See Chase and Hesselton, assignors.)						
Fiske, Henry G., San Francisco, Cal. Block-pavement for streets and sidewalks and mold for constructing the same.....	316,450	Apr. 28	2042	{ 535 536 }	31	387
Fiske, Henry G., San Francisco, Cal. Sidewalk and paving block.....	317,106	May 5	230	58	31	566
Fiske, Henry G., San Francisco, Cal. Artificial facing-block for buildings.....	317,107	May 5	231	58	31	566
Fiske, Henry G., San Francisco, Cal. Paving-block.....	317,108	May 5	232	58	31	566
Fiske, John M., trustee. (See Dion, Léon O., assignor.)						
Fiske, Samuel, New York, N. Y. Steam-generator.....	326,552	Sept. 22	1766	462	32	1364
Fisler, Charles F., Clayton, N. J. Fruit-jar fastening.....	326,416	Sept. 15	1597	415	32	1334
Fitch, Asa M., Seymour, Ind. Plow.....	317,754	May 12	1104	290	31	733
Fitch, Asa M., Seymour, Ind. Plow.....	330,475	Nov. 17	1419	379	33	791
Fitch, Byron S. (See Fitch, Calvin H., assignor.)						
Fitch, Calvin H., Middletown Springs, Vt., assignor of one-half to B. S. Fitch, Richmond, Va. Prescription-scales.....	327,152	Sept. 29	2625	683	32	1322
Fitch Electric Lighting and Construction Company. (See Fitch, Frederick K., assignor.)						
Fitch, Eugene, Des Moines, Iowa. Pencil-sharpener.....	328,473	Oct. 20	1962	328	33	245
Fitch, Ezra C., Newton, Mass. Watch-movement box.....	315,755	Apr. 14	1089	286	31	904
Fitch, Ezra C., Newton, Mass. Watch-case.....	315,756	Apr. 14	1090	286	31	904
Fitch, Ezra C., Newton, Mass. Watch-case.....	316,767	Apr. 28	2477	646	31	468
Fitch, Ezra C., Newton, Mass. Watch-case pendant.....	319,691	June 9	967	257	31	1236
Fitch, Ezra C., Newton, Mass. Watch-case.....	324,675	Aug. 18	1738	479	32	861
Fitch, Frederick K., et al. (See Cardwell, George A., assignor.)						
Fitch, Frederick K., assignor to Fitch Electric Lighting and Construction Company, New York, N. Y. Armature for dynamo-electric machines.....	312,111	Feb. 10	874	239	30	519
Fitch, Homer L., Youngstown, Ohio. Ice-creepers.....	318,366	May 19	1926	520	31	895
Fitch, John M., Detroit, Mich. Adjustable support for telephone-receivers.....	314,371	Mar. 24	1804	480	30	1130
Fitch, Philip S. (See Sparling and Fitch.)						
Fitch, W. & E. T. (See Hubbard, George M., assignor.)						
Fittam, Thomas H., Washington, D. C. Inking apparatus for printing-machines.....	327,248	Sept. 29	2744	{ 712 713 }	32	1545
Fitt, Frederick, Chaux-de-Fonds, Neuchâtel, Switzerland. Stop-watch.....	310,936	Jan. 20	1003	272	30	198
Fitt, Frederick, Chaux-de-Fonds, Neuchâtel, Switzerland. Watch-movement box.....	310,937	Jan. 20	1006	272	30	199
Fitt, Frederick, Chaux-de-Fonds, Neuchâtel, Switzerland. Stop-watch.....	325,402	Sept. 1	252	63	32	1063
Fitting, John, Hammondon, N. J. Sewing-machine guide.....	319,690	June 9	966	256	31	1236
Fitts, Benaiah, Worcester, Mass. Fluid-pressure regulator.....	333,403	Dec. 29	3090	806	33	1576
Fitz, Jacob, Hanover, Pa. Spool-mill.....	325,066	Aug. 25	2267	623	32	967
Fitz Gerald & Co. (See Brown, John F., assignor.)						
Fitz Gerald, Desmond G., Brixton, county of Surrey, and T. J. Jones, Princes Street, Hanover Square, county of Middlesex, assignors to Primary Battery Company, (limited), Hanover Square, London, England. Voltaic battery.....	333,292	Dec. 29	2951	.....	33	1532
Fitz Gerald, Walter H., Chicago, Ill. Watch-case.....	327,078	Sept. 29	2517	656	32	1504
Fitz Gerald, Walter H., and G. C. Smith, Chicago, Ill. Fitting for watch-case springs.....	316,953	May 5	31	9	31	528
Fitzgerald, Daniel H., Reading, Pa. Reversible latch.....	311,575	Feb. 3	157	45	30	378
Fitzgerald, Daniel P., Newark, N. J. Collar or sleeve button.....	318,974	June 2	63	10	31	1059
Fitzgerald, James, Providence, R. I. Slide-rest.....	331,046	Nov. 24	2139	580	33	936
Fitzgerald, John W. (See Willett and Fitzgerald.)						
Fitzgerald, Michael, Troy, N. Y. Pencil &c.....	320,770	June 23	2478	656	31	1525
Fitzgerald, Peter I. (See Weaver, Ephraim E., assignor.)						
Fitzgerald, Peter J., Philadelphia, Pa. Portable furnace for tanners.....	330,218	Nov. 10	1064	278	33	716
Fitzgerald, Walter S., Boston, Mass. Boot and shoe nailing machine.....	324,312	Aug. 11	1239	337	32	761
Fitzgibbons, David F. (See McLaughlin, John, assignor.)						
Fitzgibbons, Maurice, New York, N. Y. Protecting paper in rolls.....	319,969	June 16	1372	360	31	1314
Fitzgibbons, Patrick, Oswego, N. Y. Steam-boiler.....	313,307	Mar. 3	393	98	30	848
Fitzmaurice, Lewis G. (See Gilchrist and Fitzmaurice.)						
Fitzpatrick, Francis B., Dallas, Tex. Saw-jointer.....	318,713	May 26	2287	636	31	967
Fitzpatrick, James B., St. Albans, and A. Lewis, Wheeling, W. Va. Garden-rake.....	332,885	Dec. 22	2373	627	33	1441
Fitzsimmons, Thomas, Burlington, Vt. Cutter-head.....	310,571	Jan. 13	529	145	30	107
Fitz Simons, Frank P., Clark's Mills, N. Y. Stop-motion for coloring-machines.....	331,486	Dec. 1	326	89	33	1056
Fitzsimons, Michael, Lake, Ill. Self-adjusting sewer-scraper.....	329,034	Oct. 27	2049	531	33	395
Fitzsimons, Thomas A., San Francisco, Cal. Automatic feeding and wick-raising lamp.....	311,972	Feb. 10	697	191	30	483
Fix, Louis. (See Specht and Fix.)						
Fixary, Edouard, Paris, France. Apparatus for freezing liquids.....	330,884	Nov. 24	1937	525	33	897
Flack, Robert W., Toronto, Ontario, Canada. Passenger-register.....	331,784	Dec. 8	802	203	33	1149
Flack, William S. (See Hall, Henry, assignor.)						
Flad, Henry, St. Louis, Mo. Velocimeter for water-currents.....	314,323	Mar. 24	1737	{ 463 464 465 }	30	1196
Flad, Philipp, Philadelphia, Pa. Shoe-fastening.....	325,522	Sept. 1	417	103	32	1096
Fladd, Frederick C., assignor to Stiles & Parker Press Company, Middletown, Conn. Sprue-cutter.....	311,738	Feb. 3	339	99	30	416
Flagg, Elsie, New York, N. Y. Button.....	331,124	Nov. 24	2251	612	33	958
Flagg, Frank E., New York, N. Y. Suspenders.....	310,399	Jan. 6	315	87	30	61
Flagg, George H. P., trustee. (See Coy, Frederick W., assignor.)						
Flagg, George H. P., and G. A. Fullerton, Boston, Mass. Lasting tack-strip.....	329,544	Nov. 3	168	44	33	537
Flagg, James H., New York, N. Y. Shaving-case.....	323,203	Dec. 29	2952	771	33	1552
Flagg, Joseph W., Worcester, Mass. Automatic cash-carrier.....	310,531	Apr. 28	2139	563	31	406
Flagg, Joseph W., Worcester, Mass. Automatic cash-carrier.....	319,692	June 9	968	257	31	1236
Flagg, Othello J. (See Egerton, Charles C., assignor.)						
Flagg, William, Brooklyn, N. Y. Steam-boiler.....	325,332	Sept. 1	135	38	32	1040
Flagler, John H. (See Shelton, Thomas, assignor.)						
Flagler, John H., New York, N. Y. Roof of furnaces.....	325,403	Sept. 1	254	63, 64	32	1064
Flagler, Thomas, New Sharon, Iowa. Spring bed-bottom.....	323,309	July 28	2604	692	32	496
Flagstad, Ole, Hamar, Norway. Vise.....	323,655	Aug. 4	361	103	32	589
Flagstad, Ole, Hamar, Norway. Window construction and fastening and hinge.....	325,333	Sept. 1	137	38	32	1041
Flagg, Oskar, Cincinnati, Ohio. Combined coat-collar and hood.....	314,660	Mar. 31	2195	529	30	1235
Flammang, Mathias, Newark, N. J. Photographic camera.....	326,664	Oct. 20	1533	399	33	293

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Flanagan, Thomas, Burritt, Ill. Staple-extractor	314,116	Mar. 17	1471	384	30	1067
Flannery, John, New York, N. Y. Anti-friction bearing	316,028	Apr. 21	1454	379	31	277
Flanburgh, Anthony, Saratoga Springs, N. Y. Grapple for lifting and moving barrels	311,478	Feb. 3	93	7	30	353
Flater, Henry, assignor of one-half to W. L. Carlin, Findlay, Ohio. Saw-vise	311,241	Jan. 27	1445	384	30	286
Flather, Joseph, Nashua, N. H. Feed mechanism for lathes	317,449	May 5	713	179	31	652
Flatow, Abraham, Ellenville, N. Y. Jeweler's roll	316,135	Apr. 21	1612	421	31	305
Fleck, John, Louisville, Ky. Locomotive cow-catcher	330,864	June 23	2593	687	31	1547
Fleischer, Johannes, H. W. Müller, and J. G. Arnold, Frankfort-on-the-Main, Germany. Gas-regulator	324,762	Aug. 18	1852	510	32	883
Fleischman, Requila, et al. (See Meissner, John, assignor.)						
Fleming, James. (See Dick and Fleming.)						
Fleming, John, Calais, Me. Fire-escape	331,191	Nov. 24	2350	635 636	33	973
Fleming, John A., Pimlico, London, county of Middlesex, England. Preparation and production of insulating materials	319,084	June 2	188	.....	31	1083
Fleming, Peter F., Huntsville, Mo. Hay-elevator	310,810	Jan. 13	829	225	30	162
Fleming, Peter F., Huntsville, Mo. Hay and wheat elevator	317,527	May 12	811	208	31	679
Fleming, Peter F., Huntsville, Mo. Horse hay-rake	326,417	Sept. 15	1598	415	32	1325
Fleming, Randall W. (See Street and Fleming.)						
Fleming, Thomas C., Ayer, Nebr. Device for converting motion	322,815	July 21	1884	500	32	359
Flemming, Otto, Philadelphia, Pa. Medical battery	320,547	June 23	2196	580	31	1470
Flenniken, Theodore M. (See McGregor and Flenniken.)						
Flersheim, Lemuel H. (See Potter, James, assignor.)						
Fletcher, Benjamin L., J. M. Dunkin, L. Hanhart, and C. M. Trautmann, Cincinnati, Ohio. said Hanhart and Trautmann assignors to said Fletcher and Dunkin. Machine for making picket wire fence	319,895	June 9	1257	332 333	31	1286
Fletcher, Charles A. and W. H. Wilder, assignors to American Oil Stove Company, Gardner, Mass. Wick-adjuster	318,714	May 26	2388	636	31	987
Fletcher, Charles A. and W. H. Wilder, assignors to American Oil Stove Company, Gardner, Mass. Securing glass or mica in sheet-metal structures	325,523	Sept. 1	417	103	32	1096
Fletcher, Frank A., Watertown, N. Y. Device for supporting hammocks	328,474	Oct. 20	1263	328	33	946
Fletcher, Henry, assignor to Sweet, Fletcher & Co., Providence, R. I. Jewelry-pin	322,364	July 14	1283	335	32	244
Fletcher, John R., assignor of one-half to J. E. Lowes, Dayton, Ohio. Electric-lamp insulator	323,504	Aug. 4	160	47	32	552
Fletcher, Joseph E., assignor of one-half to R. Mitchell, Montreal, Quebec, Canada. Automatic lubricator	323,404	Dec. 29	3093	806	33	1576
Fletcher, Joshua L., Corinth, Miss. Punching-machine	324,830	Aug. 25	2085	570	32	934
Fletcher, Theodore H., Cincinnati, Ohio. Roller-skate	322,271	July 14	1157	303	32	220
Fletcher, Thordal, Moosomin, Assiniboia, Manitoba, Canada. Egg-beater	317,755	May 12	1106	291	31	733
Fletcher, Thomas, Warrington, county of Lancaster, England. Gas-stove	316,027	Apr. 21	1455	379	31	277
Fletcher, Thomas, Warrington, county of Lancaster, England. India-rubber gas-proof tubing	312,438	May 26	2044	552	31	925
Fletcher, Thomas, Warrington, county of Lancaster, England. Gas-stove	322,592	July 21	1587	422	32	306
Fletcher, William A., and W. E. Keightley, Clarksville, Mo. Suction-box for paper-machines	325,165	Aug. 25	2326	657	32	989
Fletcher, William N., Rhea's Mills, Tex. Combined dish-washer and churn	319,967	June 16	1369	359 360	31	1314
Fleury, Paul, Gonnevillle, France. Spinning-machine	324,931	Aug. 25	2086	571	32	934
Fleuss, Henry A., Newtown, Isle of Wight, England. Ice-machine	326,027	Sept. 8	1070	273	32	1220
Flewelling, Gilford, and G. J. Harris, Hampton, New Brunswick, Canada. Match-split machine	322,706	July 21	1746	461	32	334
Flietner, John, Brooklyn, N. Y. Fire-escape	330,103	Nov. 10	923	240	33	687
Flinn & Co. (See Bogan, James F., assignor.)						
Flinn, John W. (See Brody, Philip, assignor.)						
Flinn, William H., Nashua, N. H. Tool for cutting wire	327,153	Sept. 29	2026	683	32	1522
Flinn, William W. (See Davies, John R., assignor.)						
Flint, Frederick W., Atlanta, Ga. Electric telethermoscope	328,205	Oct. 13	906	235	33	172
Flint, Jarvis M., Thayer, Kans. Wind-wheel	317,756	May 12	1106	291	31	733
Flintom, Samuel G., Orange Factory, N. C. Apparatus for steaming tobacco	331,696	Dec. 1	680	168	33	1118
Floeter, Robert. (See Atwell and Floeter.)						
Flora, Ellsworth E. (See Flora, Orlando V. and E. E.)						
Flora, Orlando V. and E. E., Madison, Ind. Roller-skate	331,192	Nov. 24	2351	636	33	974
Florence, John B. (See Montross, Samuel D., assignor.)						
Florence Machine Company. (See Keith, Jeremiah, assignor.)						
Florence Machine Company. (See Ranney, David F., assignor.)						
Florence Manufacturing Company. (See Estabrook, Alanson C., assignor.)						
Florsheim, Simon, Chicago, Ill. Glove-fastener	325,524	Sept. 1	418	103	32	1096
Floto, George S. H., New York, N. Y. Card and card-supporter	318,611	May 26	2256	602	31	962
Flournoy, C. H. (See Huffaker, Miles W., assignor.)						
Flower, John A., and E. B. Ruddock, Campton, Ill. Air-line surveying-instrument	324,017	Aug. 11	825	229	32	684
Flowers, Martin L. (See Gibbons and Flowers.)						
Floyd, Charles A., Eastbourne, county of Sussex, England. Hansom-cab	319,216	June 2	339	90	31	1111
Floyd, Charles A., Eastbourne, county of Sussex, England. Horseshoe	330,006	Nov. 10	792	203	33	659
Floyd, George W., et al. (See Caley, Edward L., assignor.)						
Floyd, John J., assignor to himself and M. Morrison, Boston, Mass. Bronzing-machine	316,351	Apr. 21	1881	498	31	353
Floyd, John J., assignor of one-half to F. J. Reddican, Boston, Mass. Printer's gage-clamp	329,896	Nov. 10	645	164	33	632
Flumerfelt, Byron J. (See Hudson, Gilbert L., assignor.)						
Flurser, William H., Uniontown, Kans. Harness-saddle	315,757	Apr. 14	1091	286	31	204
Flynn, John, Omaha, Nebr. Box	312,713	Feb. 24	1712	471	30	691
Flynn, Mary J., Cleveland, Ohio. Underwaist for children	326,553	Sept. 22	1767	462	32	1364
Flynn, Michael, Elyria, Ohio. Double plow	327,154	Sept. 29	2628	684	32	1523
Flynn, Owen J. (See Shelley, Robert, assignor.)						
Flynn, Thomas W., Pottsville, Pa. Friction-roller for wire cables	319,217	June 2	340	91	31	1111
Fo, Yee, Grand Lake, La. Preserving shrimps	310,811	Jan. 13	831	.....	30	163
Focken, Hermann, New York, N. Y. Clock-case	319,085	June 2	189	50	31	1063
Fogarty, Charles F., et al. (See Crass, Frederick H., assignor.)						
Fogarty, James H., New York, N. Y. Steam-trap	310,400	Jan. 6	316	87	30	61
Fogarty, William F., et al. (See Crass, Frederick H., assignor.)						
Fogg, John D. (See Towle, Abner S., assignor.)						
Fogg, Joseph F., Gorham, Me. Water-proof wood-pulp board for roofing	319,206	June 9	1139	.....	31	1206
Foley, Thomas F. G. (See Page and Goullond, assignors.)						
Foley, Daniel. (See McCudden and Shearlock, assignors.)						
Foley, John A., assignor to himself and S. Dornroe, New York, N. Y. Railway-rail joint	313,661	Mar. 10	849	221	30	945
Foley, Patrick H., Clinton, N. Y. Rock-drill	329,545	Nov. 3	169	44	33	537

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Folger, Jacob, Toledo, Ohio. Refrigerator, ice-box, and cool storage-room.....	313,308	Mar. 3	394	98	30	848
Folger, Rowland, assignor of one-half to W. H. Gile, Milford, Mass. Umbrella.....	331,921	Nov. 24	2407	681	33	983
Follansbee, George S., Boston, Mass. Water-meter.....	327,155	Sept. 29	9628	684	32	1523
Follansbee, John S., Bridgeport, Conn., assignor to New York City Wire Nail Company. Wire-nail machine.....	330,219	Nov. 10	1065	279	33	716
Follett, Charles J., Galveston, Tex. Beer-cooler.....	328,396	Oct. 13	1163	300	33	220
Folsom, George F., assignor to H. M. Esselen, Boston, Mass. Signal-staff.....	314,324	Mar. 24	1746	465	30	1127
Folsom, Henry P., Brooklyn, N. Y. Machine for calking boilers.....	310,812	Jan. 13	831	225	30	163
Folsom, Henry P., Brooklyn, N. Y. Sput for boilers.....	332,323	Dec. 15	1002	421	33	1299
Folsom, Nehemiah T., Boston, Mass. Dust-pan.....	329,382	Oct. 27	2555	659	33	486
Folsom, Rufus. (See Smith and Folsom.) (Reissue.)						
Fonerden, Clarence A., New York, N. Y. Sprinkling-box.....	313,718	Mar. 10	917	239	30	957
Fontaine, Allen S., assignor to F. Keppel & Co., New York, N. Y. Picture-mat.....	314,008	Mar. 17	1327	346	30	1041
Fontaine, Eugene, Toledo, assignor of one-half to W. A. Kettenring, Defiance, Ohio. Rail-way-crossing.....	327,670	Oct. 6	232	57	33	41
Fontaine, Louis A., Toledo, Ohio. Pin-machine.....	330,220	Nov. 10	1068	280	33	716
Fontayne, Albert, Chicago, Ill. Axle-box.....	315,927	Apr. 14	1323	344	31	246
Fontaine, Herman A., Auburn, N. Y. Harness-pad.....	314,821	Mar. 31	2426	640	30	1279
Fontaine, Herman A., and T. A. Kisters, assignors to Hayden & Boyd, Auburn, N. Y. Strap loop connection for harness.....	313,582	Mar. 10	742	195	30	925
Fontenelle, Jules. (See Buffet, Jules, assignor.)						
Foss Manufacturing Company. (See Winchell, James F., assignor.)						
Foote, Charles W., Youngstown, Ohio. Roller-skate.....	330,007	Nov. 10	793	203	33	659
Foote, Delavan S., assignor to American Electric Manufacturing Company, Chicago, Ill. Annunciator.....	333,063	Dec. 22	2616	686	33	1486
Foote, Edward N., Northampton, Mass. Metallic-button shank.....	327,873	Oct. 6	472	123	33	84
Foote, George B., Helena, Mont. Ter. Nut-arbor.....	311,479	Feb. 3	24	7	30	363
Foote, Isaac N., Middletown, Ohio. Truss-pad.....	311,739	Feb. 3	360	99	30	417
Foote, James H., New York, N. Y. Syringe.....	307,249	Sept. 29	2747	713	32	1545
Foote, James M., Clayton, Mich. Hay-elevator.....	317,109	May 5	233	59	31	566
Foote, Julius M., Newark, N. J. Fifth-wheel.....	321,203	June 30	3051	809	31	1636
Foote, Lewis A., Lansing, Minn. Seal for railway-cars, &c.....	327,783	Oct. 6	361	93	33	64
Foote, Thomas M., Black Wolf, Kans. Railway-switch.....	322,920	July 28	2047	541	32	385
Forbes, Alexander D., Rockford, Ill. Clevis.....	314,443	Mar. 24	1896	507	30	1157
Forbes, Alexander D., Rockford, Ill. Plow-clevis.....	332,145	Dec. 8	1341	347	33	1245
Forbes, Charles H. (See Roberts and Forbes.)						
Forbes, Edward, Chicago, Ill. Lacing for gloves.....	317,528	May 12	812	209	31	679
Forbes, Edward P., Hartford, Conn. Automatic alarm-bell.....	331,697	Dec. 1	681	168	33	1118
Forbes, Francis. (See Wilson, James G., assignor.)						
Forbes, George, New York, N. Y. Car-coupling.....	328,931	Oct. 27	1882	491	33	365
Forbes, George W., Guberville, Cal. Cultivator.....	326,206	Sept. 15	1324	343	32	1273
Forbes, Gouverneur M., Salt Lake City, Utah Ter. Axle for vehicles.....	326,284	Sept. 15	1427	373	32	1399
Forbes, Henry, Franklin, Pa. Pumping oil-wells.....	330,973	Nov. 24	2056	556	33	920
Forbes, John, Halifax, Nova Scotia, Canada. Seal-lock for car-doors.....	314,009	Mar. 17	1328	346	30	1041
Forbes, John, San Francisco, Cal. Top-plate for cooking stoves and ranges.....	328,580	Oct. 20	1407	366	33	271
Forbes, John A. (See Wilson and Forbes.)						
Forbes, John A., assignor of one-half to E. S. Anderson, Dover, Del. Corn-cutting attachment for mowing-machines.....	328,770	Oct. 20	1657	432	33	317
Forbes, John, Jr., Plainwell, assignor of one-half to E. L. Lyon, Detroit, Mich. Boat.....	315,758	Apr. 14	1092	286	31	204
Forbes, Lorenzo W., Wilkinson, Ind. Indicator attachment for saw-mill head-blocks.....	316,532	Apr. 28	2141	563	31	407
Forbes, Walter T., Atlanta, Ga. Refrigerating apparatus.....	321,702	July 7	393	105	32	73
Forbes, William H. (See Osborne, John W., assignor.)						
Forbes, Winslow, assignor to himself and F. B. Lawrence, Riverhead, N. Y. Car-coupling.....	325,830	Sept. 8	828	207	32	1174
Forbis, Harbert K., Columbus, Ohio. Thill-coupling.....	315,759	Apr. 14	1093	287	31	205
Forbis, John C., Ashland, Mo. Harrow-tooth.....	329,035	Oct. 27	2050	532	33	395
Force, Albert W., Ithaca, N. Y., assignor to J. W. Hallenback, Wilkes-Barre, Pa. Horse hay-rake.....	312,453	Feb. 17	1364	376	30	618
Force, William A. (See Sawyer and Gould, assignors.)						
Force, William A., Brooklyn, N. Y. Hand-stamp.....	326,418	Sept. 15	1599	416	32	1325
Forek, Joseph H. M., Taos, Mo. Revolving rake.....	316,954	May 5	33	9	31	589
Ford, Addison M., and J. M. Moore, Jericho, Vt. Machine for planing and finishing thin pieces of wood.....	322,816	July 21	1885	500	32	359
Ford, Benjamin, assignor of one-half to J. D. Ford, Pittsburg, Pa. Pipe-joint protector.....	320,771	June 23	2479	656	31	1525
Ford, Daniel R., San Francisco, Cal. Coin-changer's box.....	327,156	Sept. 29	2630	624	32	1523
Ford, Franklin D., assignor of one-half to C. S. Sweetland, Providence, R. I. Making barbed fences.....	310,813	Jan. 13	833	226	30	163
Ford, Franklin D., assignor of one-half to C. S. Sweetland, Providence, R. I. Barbed-wire fence.....	311,426	Jan. 27	1710	465	30	334
Ford, Franklin D., assignor of one-half to C. S. Sweetland, Providence, R. I. Barbed-wire fence.....	311,740	Feb. 3	361	100	30	417
Ford, Franklin D., assignor of one-half to C. S. Sweetland, Providence, R. I. Barbed-wire fence.....	312,454	Feb. 17	1365	377	30	618
Ford, Franklin D., assignor of one-half to C. S. Sweetland, Providence, R. I. Barbed fence.....	319,807	June 9	1139	302	31	1266
Ford, Frederic G., Roxborough, Pa. Support for bed-slats.....	315,268	Apr. 7	398	99	31	73
Ford, George A., Cleveland, Ohio. Metal sheave.....	323,136	July 28	2350	624	32	452
Ford, George T. (See Eberhard, William, assignor.)						
Ford, George W., Elba, N. Y. Tire-upsetter.....	325,793	Sept. 8	777	195	32	1165
Ford, Herbert L., assignor of one-half to W. Turnbull, Aiken, S. C. Railway-switch.....	319,398	June 2	563	153	31	1155
Ford, Herbert L., assignor of one-half to W. Turnbull, Aiken, S. C. Railway-switch.....	328,842	Oct. 20	1750	456	33	335
Ford, Jarvis O., assignor of one-half to F. R. Slocum, Hartford, Conn. Trunk-catch.....	312,195	Feb. 10	1007	274	30	542
Ford, Jesse S., Owensboro, Ky. Elevating and carrying apparatus.....	333,456	Dec. 29	3158	826	33	1587
Ford, John D. (See Ford, Benjamin, assignor.)						
Ford, John K. (See Winans, Herman W., assignor.)						
Ford, Tardy W., Belpre, Ohio. Cleaning compound for carpets, plush, &c.....	320,772	June 23	2480		31	1526
Ford, Thomas J., Geneva, Ohio. Combined table and desk.....	328,475	Oct. 20	1264	329	33	246
Ford, Thomas J., assignor of one-half to D. A. Warner, Geneva, Ohio. Necktie-fastener.....	318,715	May 26	2389	637	31	987
Ford, William, Birmingham, Conn. Combination square and gage.....	329,156	Oct. 27	2220	575	33	425
Ford, William N., Indianapolis, Ind. Cover for tobacco-pails.....	327,784	Oct. 6	361	94	33	64
Ford, William S., Louisville, Ky. Press.....	311,824	Feb. 3	466	126	30	436
Ford, William S., Denver, Colo. Telephone-exchange.....	331,955	Dec. 8	1051	273	33	1196
Ford, William W., Elmira, N. Y. Bobbin for sewing-machines.....	331,956	Dec. 8	1054	274	33	1196

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Forder, Charles. (See Forder, Frederick and C.)						
Forder, Frederick, Wolverhampton, England. Spring for two-wheeled vehicles	315,928	Apr. 14	1324	344	31	246
Forder, Frederick and C., Wolverhampton, England. Carriage-window	323,865	Aug. 4	690	174	32	640
Forder, Frederick and C., Wolverhampton, England. Opening and closing the doors of hansom-cabs	325,739	Sept. 8	708	177	32	1152
Fordham, Henry F., Greenport, N. Y. Wire frame	321,204	June 30	3052	809	31	1636
Foreacre, Green J., et al. (See Phillips, Collumbus, assignor.) (Reissue.)						
Forehand, Sullivan. (See Gates, Charles H., assignor.)						
Foreman, Milton, Philadelphia, Pa. System of steam-heating	325,667	Sept. 8	602	152	32	1134
Foreman, Milton, Philadelphia, Pa. Steam-generator	333,001	Dec. 22	2537	669	33	1472
Foreman, Milton and S. E., Randolph, Kans. Fence-post	317,757	May 12	1107	291	31	733
Foreman, Samuel E. (See Foreman, Milton and S. E.)						
Forest, William E., New York, N. Y. Exercising-machine	325,404	Sept. 1	256	64	32	1064
Forg, Peter, Boston, Mass. Door-check	319,086	June 2	189	50	31	1083
Forhan, John, New York, N. Y. Blind-tenon	313,250	Mar. 17	1122	291	30	1002
Forister, John H., Flatonia, Tex. Motor	312,990	Feb. 24	2074	565	30	755
Forker, William H., Meadville, Pa. Wire-stretcher	326,419	Sept. 15	1600	{ 416 417 }	32	1325
Forknall, Thomas. (See Thornhill, Forknall, and Thornhill.)						
Forman, Francis M., Greenville, Mich. Boiler-cleaner	323,310	July 28	2605	{ 692 693 }	32	497
Fornander, Alfred, Brooklyn, N. Y., assignor to Miller's Falls Company, Miller's Falls, Mass. Hand-saw	330,104	Nov. 10	994	240	33	687
Fornecrook, Charles C., assignor of one-half to J. W. Fornecrook, Hermitage, N. Y. Seat-fastener	317,985	May 19	1420	381	31	801
Fornecrook, Joseph W. (See Fornecrook, Charles C., assignor.)						
Forney, Matthias N., New York, N. Y. Car-seat	324,825	Aug. 25	1946	{ 534 535 }	32	907
Forrest, George S. (See Abbott and Forrest.)						
Forrest, Hamlet E., assignor of two-thirds to W. H. Beecher and E. G. Mansfield, New Haven, Conn. Tuning-pin for musical instruments	322,272	July 14	1159	303	32	920
Forrest, Hamlet E., assignor of two-thirds to W. H. Beecher and E. G. Mansfield, New Haven, Conn. Banjo	325,067	Aug. 25	2268	623	32	968
Forrest, James, Grand Forks, Dak. Ter. Measuring, sacking, and registering attachment for grain-separators	310,503	Jan. 6	432	119	30	84
Forrester, Abraham M., Racine, Wis. Feed-cutter	313,682	Mar. 10	850	221	30	945
Forrester, Isaac N., Camden, N. J. Child's carriage	330,308	Nov. 10	1182	316	33	740
Forrester, Samuel, Allegheny, Pa. Pencil-sharpener	332,146	Dec. 8	1342	348	33	1245
Forsaith, Samuel C., et al. (See Whitnev, Edwin R., assignor.)						
Forschner, Charles, New York, N. Y. Sausage-stuffing machine	316,352	Apr. 21	1882	498	31	354
Forshaw, Joseph and N., St. Louis, Mo. Gasoline-stove attachment	311,182	Jan. 27	1380	373	30	271
Forshaw, Nathan. (See Forshaw, Joseph and N.)						
Forshey, Jonathan, and C. G. Hirlinger, Philipsburg, Pa. Wrench	314,572	Mar. 31	2079	555	30	1215
Forsholm, Rasmus, New York, N. Y. Mounting screw-propellers	315,136	Apr. 7	195	48	31	36
Forst, Michael, assignor to Southern White Lead Company, St. Louis, Mo. Apparatus for feeding white lead	331,698	Dec. 1	683	169	33	1118
Forster, Ferdinand E., New York, N. Y. Shallow-water indicator	326,028	Sept. 8	1072	274	32	1220
Forstth, H. C. (See Brown, Theodore H., assignor.)						
Fort Dodge Gypsum Stucco Company. (See Gregory, George L., assignor.)						
Fort Wayne Electric Light Company. (See Cain, Jacob, assignor.)						
Forth, John F., Nottingham, England. Lace curtain	333,002	Dec. 22	2539	669	33	1473
Fortier, Charles L., Milwaukee, Wis. Telephone-receiver	323,311	July 28	2606	693	32	497
Fosbery, George V., Liege, Belgium. Gun-barrel	329,303	Oct. 27	2428	630	33	464
Fosburgh, Robert L., assignor to J. W. Branch, St. Louis, Mo. Earth-anger	322,365	July 14	1264	335	32	244
Fosdick, Frederick, Fitchburg, Mass. Piston-valve	323,410	Aug. 4	36	9	32	529
Fosdick, Frederick, Fitchburg, Mass. Steam-engine governor	323,411	Aug. 4	38	10	32	530
Foskett, William A., New Haven, Conn. Steam-trap	311,113	Jan. 20	1256	344	30	246
Foss, Henry A., Philadelphia, Pa. File-cutting machine	319,218	June 2	340	91, 92	31	1111
Foss, John F., Tewksbury, assignor to Hopedale Machine Company, Hopedale, Mass. Mechanical movement	316,136	Apr. 21	1613	421	31	305
Foster, Abraham G. W., Newman, Ga. Levelling-instrument	328,665	Oct. 20	1534	399	33	294
Foster & Bailey. (See Dillon, John S., assignor.)						
Foster, Benjamin E., Stockwell, county of Surrey, England. Decorating or ornamenting glass	383,457	Dec. 29	3160	.....	33	1568
Foster, Charles F. (See Foster, James A. and C. F.)						
Foster, Charles H., Alameda, Cal. Double-acting submerged pump	314,117	Mar. 17	1472	384	30	1067
Foster & Co., John. (See Hall, William D., assignor.)						
Foster, David A., Dublin, Ind. Step-ladder	314,118	Mar. 17	1473	384	30	1067
Foster, Frank N., Duluth, Minn. Adjustable finger-ring	322,435	July 21	1377	360	32	268
Foster, Frank P., assignor to L. Myers & Son, Milwaukee, Wis. Paint-remover	328,666	Oct. 20	1535	.....	33	294
Foster, Frederick. (See Dixon, Rufus E., assignor.)						
Foster, George S. (See Milligan, John F., assignor.)						
Foster, Gilbert S., Concord, N. H. Hoop-planing machine	316,768	Apr. 28	2478	{ 646 647 }	31	468
Foster, Henry J., Racine, Wis. Seed-sower	321,703	July 7	394	105	32	74
Foster, Hickman E., Decatur, Ill. Boat-detaching apparatus	312,714	Feb. 24	1713	471	30	691
Foster, Hiram A. (See Tucker, John L., assignor.)						
Foster, James A. and C. F., Fulton, N. Y. Tobacco-plant cutter	323,312	July 28	2606	693	32	497
Foster, James L., et al. (See Thompson, George C., assignor.)						
Foster, John B., Zurich, Ontario, Canada. Tile-making attachment for brick-machines	315,016	Apr. 7	41	9	31	9
Foster, Joseph S., Salem, Mass. Air-ship	320,548	June 23	2200	581	31	1471
Foster, Julius T. (See Robbins and Foster.)						
Foster, Lucian M., assignor to S. Foster and J. H. Reynolds, Troy, N. Y. Boring bit or auger	324,763	Aug. 18	1854	510	32	883
Foster, Merriam & Co. (See Sutliff, James R., assignor.)						
Foster, Michael A., St. Louis, Mo. Grate bar attachment for furnaces	310,194	Jan. 6	46	13	30	11
Foster, Michael A., St. Louis, Mo. Steam-boiler furnace	331,699	Dec. 1	684	169	33	1119
Foster, Michael A., St. Louis, Mo. Grate for steam-boiler furnaces	331,700	Dec. 1	685	169	33	1119
Foster, Orlando A., et al. (See Enos, John A., assignor.)						
Foster, Rolon E., Milford, Mass. Cork sole for boots or shoes	313,817	Mar. 10	1056	272	30	982
Foster, Samuel, et al. (See Foster, Lucian M., assignor.)						
Foster, Samuel B. (See Prime, William R., assignor.)						
Foster, Samuel L. (See Tallman, Michael R., assignor.)						
Foster, Theodore W., Providence, R. I. Jewelry manufacture	312,833	Feb. 24	1877	514	30	720

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Foster, Theodore W., Providence, R. I. Button	328,021	Oct. 13	689	176	33	128
Foster, Theodore W., Providence, R. I. Button or stud	330,390	Nov. 17	1306	347	33	770
Foster, Thomas J., Shenandoah, Pa., assignor to G. W. Gall, E. Schmeisser, and C. Ax, Baltimore, Md. Squib, match, and touch-paper safety-box	311,183	Jan. 27	1361	373	30	271
Foster, Wilbur B., Rockville, Conn. Display-frame	320,122	June 16	1583	418	31	1351
Foster, William A. (See Putnam and Foster.)						
Fougere, Louis F., et al. (See Blair, George W., assignor.)						
Foulds, Thomas, Trevorton, Pa. Injector-condenser	317,110	May 5	234	59	31	566
Foulds, Thomas H., Cincinnati, Ohio. Wheat-meal product	327,250	Sept. 29	2748		32	1546
Foulds, William, et al. (See Walter, Henry C., assignor.)						
Foules, Thomas H., et al. (See Dalton, William D., assignor.)						
Foulis, William, Glasgow, county of Lanark, Scotland. Retort-furnace	333,122	Dec. 29	2712	{ 711 712 }	33	1309
Foulks, John W. (See Niemann, James P., assignor.)						
Foulks, John W., Brooklyn, N. Y. Roll for forming toe-calk bars	333,003	Dec. 22	2539	669	33	1473
Fournier, George, Paris, France. Primary and secondary battery	316,533	Apr. 28	2142	563	31	407
Foushee, Fountain L., Batesville, Ark. Churning device	331,467	Dec. 1	327	88	33	1056
Foust, James W., Rock Falls, assignor to T. A. Galt and G. S. Tracy, Sterling, Ill. Hay-loader	329,323	Oct. 27	2555	659	33	466
Fowkes, Alfred, Philadelphia, Pa., and T. Connolly, Trenton, N. J. Single-piece porcelain washout water-closet	330,574	Nov. 17	1536	411	33	814
Fowler, John C., J. P. Christopher, and W. P. Smith, Michigamme, Mich. Mine-railway	314,010	Mar. 17	1329	347	30	1041
Fowler, Arthur H., Newark, Ohio. Steam-boiler	323,412	Aug. 4	30	10	32	530
Fowler, Charles W., and A. O. Nepil, Des Moines, Iowa. Boiler-furnace	330,885	Nov. 24	1939	525	33	897
Fowler, Elbert W., Chicago, Ill. Device for operating safe bolt-works	317,986	May 19	1421	{ 381 382 }	31	801
Fowler, Elbert W., Chicago, Ill. Device for operating safe bolt-work	331,390	Dec. 1	186	48, 49	33	1031
Fowler, Green L., Clarksburg, Mo. Weather-strip	325,597	Sept. 1	505	196	32	1112
Fowler, Hervey W., Chicago, Ill. Driving and reversing gear	310,265	Jan. 6	137	39	30	26
Fowler, Hervey W., Chicago, Ill. Roll for reducing old rails to homogeneous bars	315,269	Apr. 7	399	100	31	73
Fowler, Hervey W., Chicago, Ill. Cam	315,270	Apr. 7	402	100	31	73
Fowler, Hervey W., Chicago, Ill. Roll for making spikes	317,330	May 5	550	{ 140 141 }	31	694
Fowler, James, Burlington, Iowa. Harness check-rein	315,399	Apr. 7	572	147	31	103
Fowler, John G., and W. H. Crisp, Mankato, Minn. Sash-holder	330,105	Nov. 10	925	240	33	628
Fowler, Josiah, St. John, New Brunswick, Canada. Carriage axle and box	321,205	June 30	3053	609	31	1636
Fowler, Thaddeus, Bridgeport, assignor to H. G. Thompson, Milford, H. G. Thompson, New Haven, Conn., and A. G. Thompson, New York, N. Y. Saw	328,019	Oct. 13	668	175	33	126
Fowler, Thomas J., Birmingham, Ala., assignor, by mesne assignments, to J. C. Westbrook, Combined cotton-sweep, chopper, &c.	315,400	Apr. 7	573	148	31	103
Fowler, William R., Philadelphia, Pa., assignor to J. C. Matthai, J. E. Ingram, G. W. Knapp, and W. H. Matthai, Baltimore, Md. Fly-fan	321,352	June 30	3232	861	31	1671
Fowler, William R., assignor to L. J. Myers, Philadelphia, Pa. Rope railway	330,106	Nov. 10	926	{ 240 241 }	33	628
Fowles, James H., Orangeburg Court-House, S. C. Cotton-cultivator	328,397	Oct. 13	1164	300	33	220
Fox, Albert R., assignor of two-thirds to J. T. Dickson and A. G. Sells, Kankakee, Ill. Mechanism for reciprocating the condensing-cylinders of carding-engines	316,769	Apr. 28	2479	647	31	479
Fox, Ansel E., Leadville, Colo. Attachment for coal-oil cans	325,068	Aug. 25	2970	624	32	968
Fox, Frank A., assignor to himself and J. L. Gordon, New York, N. Y. Changeable button	316,253	Apr. 21	1755	461	31	332
Fox, Frank W. (See Fox, Lewis, assignor.)						
Fox, George, New York, N. Y. Steam-boiler	324,101	Aug. 11	938	258	32	705
Fox, George E., assignor of one-half to H. A. Farmer, Rockford, Ill. Lace-reel	316,955	May 5	34	9, 10	31	529
Fox, George H., Boston, Mass. Piston water-meter	327,671	Oct. 6	234	57	33	41
Fox, George H., Boston, Mass. Piston water-meter	327,672	Oct. 6	235	58	33	42
Fox, Henry W., Baltimore, Md. Dust-excluder	318,176	May 19	1669	447	31	847
Fox, John S., assignor of one-half to J. P. Garlick, Oakland, Cal. Standard for maps and charts	333,211	Dec. 29	2932	741	33	1730
Fox, Joshua D., Frankfort, Ind. Gate	330,575	Nov. 17	1536	411	33	814
Fox, Lewis, assignor to F. W. Fox, Middleburg, N. Y. Rotary steam and air pump	324,370	Aug. 18	1317	358	32	793
Fox, Melchior, Eau Claire, Wis. Water-closet seat	310,401	Jan. 6	318	88	30	62
Fox, Perley E., Marlow, N. H. Heating-drum	325,405	Sept. 1	258	64	32	1064
Fox, Philo L., Bridgeport, Conn. Lock-mortising chisel	314,011	Mar. 17	1330	347	30	1041
Fox, Philo L., Bridgeport, Conn. Combined square and miter	331,047	Nov. 24	2139	580	33	936
Fox, Rowland, New York, N. Y. Collar-button	322,273	July 14	1160	304	32	220
Fox, Samson, Harrogate, county of York, England. Flanging-machine	318,889	May 26	2628	{ 697 698 }	31	1029
Fox, Samuel, 110 Gloucester Place, county of Middlesex, England. Apparatus for annealing wire and metal in other forms	310,402	Jan. 6	318	88	30	62
Fox, Samuel L. (See Brown, Daniel V., assignor.)						
Fox, William H., assignor of ten-sixteenths to P. E. and R. W. Green, St. Louis, Mo. Device for filing way-bills, &c.	322,274	July 14	1161	304	32	221
Fox, William J., New York, N. Y. Machine for molding cigars	321,592	July 7	200	60, 67	32	42
Fox, William T., assignor to Steam Gauge and Lantern Company, Rochester, N. Y. Pressure-regulator	319,896	June 9	1264	333	31	1267
Fox, William T., assignor to Steam Gauge and Lantern Company, Rochester, N. Y. Air-compressor	321,206	June 30	3054	810	31	1637
Fox, William T., assignor to Steam Gauge and Lantern Company, Rochester, N. Y. Air-compressor	321,207	June 30	3056	811	31	1637
Fracker, T. L., et al. (See Steward, Arthur P., assignor.)						
Fracker, Willard, et al. (See Steward, Arthur P., assignor.)						
Fraser, Harriet L. (See Fuller, Lucinda and H., assignors.)						
Frankin, John J., Fort Wayne, Ind. Corn-planter	323,601	Aug. 4	540	154	32	625
Frankin, John J., Fort Wayne, Ind. Cultivator	330,687	Nov. 17	1675	432	33	842
Frail, Aaron W., Ashland, Mass. Gas-machine	321,950	July 14	757	198	32	116
Fraley, David R., assignor to himself and B. Shemwell, Lexington, N. C. Quilting attachment for sewing-machines	321,287	June 30	3151	840	31	1655
Fraley, William K., Forest Hill, Ind. Carriage-spring	311,069	Jan. 30	1192	327	30	235
Frampton, Joseph, Willis, Tex. Music-holder	316,534	Apr. 28	2144	563	31	407
France, Joseph R., Newark, N. J. Roller-skate wheel	328,476	Oct. 20	1265	329	33	246
France, Joseph R., Newark, N. J. Cellonite or nitro-cellulose article	328,843	Oct. 20	1751	456	33	335
France, Joseph R., J. H. Yale, and G. W. Beury, Newark, N. J. Music case or portfolio	319,399	June 2	564	153	31	1153
France, Lewis B., Denver, Colo. Mustache-protector	323,802	Aug. 4	540	154	32	625
France, Mary, Cleveland, Ohio. Adjustable fire-box	318,716	May 26	2389	637	31	987

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Francis, Casper S., <i>et al.</i> (See Brooke, Isaac, assignor.)						
Francis, Lewis G., La Grange, Ill. Gas-pressure regulator	312,560	Feb. 17	1516	413	30	646
Franklyn, Charles G. (See Henderson, James, assignor.)	329,639	Nov. 3	289		33	559
Francy, John, Toronto, Ohio. Manufacture of wall-coping	313,583	Mar. 10	743	106	30	925
Frank, Eugen, Elberfeld, Prussia, Germany. Production of new yellow coloring-matter	329,638	Nov. 3	288		33	559
Frank, Eugen, assignor to Farbentabriken, vormals Friedr. Bayer & Co., Elberfeld, Prussia, Germany. Yellow coloring-matter	332,795	Dec. 22	2248	592	33	1420
Frank, Himan, New York, N. Y. Box-strap	321,492	July 7	110	30	32	22
Frank, Himan, assignor to Twisted Wire Box Strap Company, New York, N. Y. Wire-twisting machine	319,219	June 2	343	92	31	1112
Frank, William, New York, N. Y. Cuff	328,824	Oct. 20	1808	471	33	345
Franko, Ernst, Paterson, N. J. Machine for covering cords with silk-threads	315,606	Apr. 14	877	230	31	163
Franko, Henry, Brooklyn, N. Y. Lock-plate for portable railways	330,886	Nov. 24	1941	525	33	898
Frankel, Alexander C., assignor to J. Lagowitz, Newark, N. J. Trunk	325,525	Sept. 1	420	104	32	1096
Frankel, Jacob, Baltimore, Md. Knit jacket	320,123	June 16	1584	418	31	1352
Franklin, Benjamin W., <i>et al.</i> (See Smith, A. Buttles, assignor.)	314,823	Mar. 31	2428	641	30	1278
Franklin, George H., and H. G. Barr, Providence, R. I. Violin-bow	319,220	June 2	344	92	31	1112
Franklin, Henry H., Chattanooga, Tenn. Grooving and seaming machine	325,598	Sept. 1	506	126	32	1112
Franklin, James C., Lena, assignor to H. Stover, Z. House, and N. Hendryx, Pendleton, Oreg. Mail-bag	314,823	Mar. 31	2428	641	30	1279
Franklin, Solomon, Pine Bluff, Ark. Combined harrow, cultivator, and plow	326,401	Sept. 15	1683	440	32	1341
Franklin, William B., assignor to Colts Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine fire-arm	323,656	Aug. 4	372	103	32	590
Franklin, William B., assignor to Colts Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine fire-arm	323,137	July 28	2351	624	32	452
Franks, Orrin G., <i>et al.</i> (See Clark, Levi S., assignor.)						
Frauz, Julius, Warsaw, Ill. Snow-plow	313,818	Mar. 10	1057	272	30	992
Franzen, Nils G., Randolph, Kans. Rocking-chair	323,368	Dec. 15	1675	438	33	1311
Fraser, Alex. (See Agee and Fraser.)						
Fraser, Cameron. (See McDonald and Fraser.)						
Fraser, David R., Chicago, Ill. Rock and ore crushing machine	323,657	Aug. 4	362	103	32	590
Fraser, Harry T. O., Clerkenwell, county of Middlesex, England. Magneto-electric call-bell	331,818	Mar. 10	1057	272	30	992
Fraser, Peter, Hamilton, Ontario, Canada. Machine for making upholstering-springs	310,572	Jan. 13	530	145	30	107
Fraser, Thomas W. (See Croviston, John R., assignor.)						
Frazee, James H., Rushville, Ind. Cultivator	330,309	Nov. 10	1183	316	33	740
Frazee, Lawrence E., Jersey City, N. J. Gang-plank for ferry-boats	320,057	June 16	1490	393	31	1135
Frazee, Lawrence F., Jersey City, N. J. Gang-plank for vessels	313,486	Mar. 10	623	162	30	992
Frazey, Guy S., Jersey City, N. J. Device for milking cows	329,447	Nov. 3	25	7, 8	33	569
Frazey, Guy S., Jersey City, N. J. Milk-cooler	327,934	Oct. 6	554	144	33	99
Frazey, Guy S., Jersey City, N. J. Creaming-can	311,576	Feb. 3	158	45	30	378
Frazier, Alexander, West Haven, Conn., assignor of one-half to C. B. Delapierre, Brooklyn, N. Y. Machine for making brushes	320,243	June 16	1900	500	31	1408
Frazier, George C., Allegheny, assignor to Hamilton, Lemmon, Arnold & Co., Pittsburg, Pa. Coffin-handle	317,331	May 5	554	141	31	624
Frazier, James C., Vassar, Mich. Flour-bolt	330,779	Nov. 17	1799	485	33	864
Frazier, William H., Oswego, N. Y. Saw-mill dog	330,780	Nov. 17	1800	485	33	865
Freaner, Charles H., and S. Golding, assignors of one-half to H. T. Small and W. J. Schubert, Fredonia, Kans. Glove-and-motion holder	316,614	Apr. 28	2242	591	31	426
Frear, Moses, assignor of one-half to R. Snyder, Rosendale, N. Y. Vehicle running-gear	316,353	Apr. 21	1884	499	31	354
Frech, William. (See Morris and Frech.)						
Frech, William, Chicago, Ill. Tool-holding attachment for lathes	325,204	Aug. 25	2446	673	32	1000
Frech, William, Chicago, Ill., assignor to A. French Spring Company, (limited,) Pittsburg, Pa. Grinding-machine	311,890	Feb. 10	578	158	30	464
Fréchette, Isaac, St. Hyacinthe, Quebec, Canada. Lubricator	312,264	Feb. 17	1098	303	30	568
Fréchette, Isaac, and C. L. Girard, St. Hyacinthe, Quebec, Canada. Car-axle lubricator	325,740	Sept. 8	710	177	32	1153
Frederick, William G., Newark, N. J. Anti-freezing attachment for water-pipes	317,332	May 5	555	141	31	624
Frederiksen, John D., Little Falls, N. Y., and P. Rasch, Philadelphia, Pa. Centrifugal machine for testing milk and cream	319,087	June 2	190	50	31	1083
Frederiksen, John D., Little Falls, N. Y., and P. Rasch, Philadelphia, Pa. Centrifugal machine for testing milk and cream	319,088	June 2	191	50	31	1083
Fredrick, Henry, Newark, N. J. Rotary water-meter	325,794	Sept. 8	778	195	32	1165
Free, John W., Chicago, Ill., and J. F. Baldwin, Cambridge, Mass.; said Baldwin assignor to said Free. Drying apparatus	328,206	Oct. 13	907	235	33	172
Freeland, Albert F., Malden, and C. H. Whitten, Waltham, Mass. Watch-movement box	328,398	Oct. 13	1165	301	33	220
Freeland, Robert. (See Ralston, John C., assignor.)						
Freeman, Alonzo, Concord, Mass. Reversing-valve for steam-engines	311,114	Jan. 20	1257	344	30	246
Freeman, Alva M., and J. B. Overmeyer, Chicago, Ill. Suspenders	312,196	Feb. 10	1008	275	30	542
Freeman, Alva M., and J. B. Overmeyer, Chicago, Ill. Suspenders	325,423	May 19	1996	537	31	907
Freeman, Ann M., Kansas City, Mo. Dress-cutting rule						
Freeman, Augustus M., Ocean Grove, N. J., assignor to himself and J. I. Holly, New York, N. Y. Blind-slat fastening	317,332	May 5	555	141	31	624
Freeman, Augustus M., Ocean Grove, N. J., assignor to himself and J. I. Holly, New York, N. Y. Basket	319,087	June 2	190	50	31	1083
Freeman, Augustus M., Ocean Grove, assignor to himself and A. C. Kelly, Metuchen, N. J. Folding settee, crib, and cradle	319,088	June 2	191	50	31	1083
Freeman, Augustus M., Ocean Grove, assignor to himself, A. C. Kelly, Metuchen, N. J., and J. I. Holly, New York, N. Y. Toy	325,794	Sept. 8	778	195	32	1165
Freeman, Augustus M., Ocean Grove, assignor to himself, A. C. Kelly, Metuchen, N. J., and J. I. Holly, New York, N. Y. Toy	328,206	Oct. 13	907	235	33	172
Freeman, Benjamin S., Jr., and E. L. Robinson, assignors to B. S. Freeman & Co., Attleborough Falls, Mass. Ornamental chain	328,398	Oct. 13	1165	301	33	220
Freeman, Charles H. (See Dawson, Artemas L., assignor.)						
Freeman, Charles H., Rochester, N. Y. Die for pressing harness-pads	311,114	Jan. 20	1257	344	30	246
Freeman & Co., B. S. (See Freeman and Robinson, assignors.)						
Freeman, Cornelia T., Elizabeth, N. J. Guide setter for sewing-machines	315,607	Apr. 14	878	230	31	163
Freeman, H. K. (See Redington, William H., assignor.)						
Freeman, James P., Chicago, Ill., assignor of nine-twentieths to E. M. Marble, Washington, D. C. Telephone-transmitter	312,196	Feb. 10	1008	275	30	542

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Freeman, James P., Chicago, Ill., assignor of nine-twentieths to E. M. Marble, Washington, D. C. Telephone-transmitter	318,424	May 19	1999	{ 538 539 }	31	907
Freeman, John J. (See McKinney, Truman D., assignor.)						
Freeman, John M., Steubenville, Ohio. Terra-cotta pavement	310,062	Jan. 13	641	177	30	128
Freeman, Methven T., Richmond, Va. Calculating-instrument for percentage and proportion	319,808	June 9	1140	302	31	1266
Freeman, Michael. (See Freeman, Stephen and M.)						
Freeman, Stephen, Racine, Wis. Broadcast seeder	321,704	July 7	395	105	32	74
Freeman, Stephen, Racine, Wis. Fertilizer-distributor	321,705	July 7	396	106	32	74
Freeman, Stephen and M., Racine, Wis. Broadcast seed-sower	321,706	July 7	398	106	32	74
Freeman, Thomas, assignor of one-half to J. F. Ellis, Toronto, Ontario, Canada. Combined backing, plowing, and girding press	323,313	July 28	2007	693	32	497
Freeman, Thomas R., et al. (See Allen, Samuel F., assignor.)						
Freeman, Warren P., New York, N. Y. Electric-arc lamp	313,487	Mar. 10	624	162	30	902
Freeman, Warren P., New York, N. Y. Dynamo-electric machine	313,488	Mar. 10	625	162	30	902
Freeman, Warren P., New York, N. Y. Commutator for dynamo-electric machines	313,489	Mar. 10	626	163	30	902
Freeman, William P. (See King, John D., assignor.)						
Freeport Spring Hinge Company. (See Devore, Levi M., assignor.)						
Freese, Francis J., and F. C. Baldwin, Manchester, N. H. Necktie or cravat	327,542	Oct. 6	54	12	33	11
Freese, Frank G., Philadelphia, Pa. Driving-gear for street-cars	318,717	May 26	2390	637	31	987
Freese, Harry E., Philadelphia, Pa. Lighting railway-cars	325,795	Sept. 8	779	195	32	1165
Freese, Harry E., Philadelphia, Pa. Car-heater	325,796	Sept. 8	780	196	32	1165
Freese, John S., Brooklyn, N. Y. Button-hole sewing-machine	314,444	Mar. 24	1897	507	30	1157
Freese, John S., Brooklyn, N. Y. Button-hole sewing-machine	325,599	Sept. 1	508	{ 126 127 }	32	1112
Freese, William L., Mohawk Village, Ohio. Meat crusher or tenderer	330,310	Nov. 10	1184	316	33	740
Freeto, James H., Mechanicsburg, Ill. Telephone	321,960	July 14	759	198	32	146
Frega, Giuseppe, Philadelphia, Pa. Cutting and fitting garments	314,526	Mar. 24	2015	578	30	1176
Freidel, George A., and J. D. Clough, Cleveland, Ohio. Barrel-making machine	314,926	Mar. 31	2569	{ 679 680 }	30	1304
Freidenrich, Leon, New York, N. Y. Supplementary waistband for pants	333,064	Dec. 22	2618	686	33	1467
Freist, Henry C., assignor to Harrison Brothers & Co., Philadelphia, Pa. Manufacture of crystal alum	326,477	Oct. 20	1267	.....	33	246
Freist, Henry C., assignor to Harrison Brothers & Co., Philadelphia, Pa. Manufacture of hydrate of alumina	326,478	Oct. 20	1268	.....	33	246
Fremont Cultivator Company. (See Rosebaugh, John C., assignor.)						
Fremont Cultivator Company. (See Stahl, Harlow C., assignor.)						
French, Albert E., East Tawas, Mich. Extension-table	320,124	June 16	1585	419	31	1352
French, Albert E., East Tawas, Mich. Fire-screen and ventilator	328,932	Oct. 27	1885	491	33	366
French, C. Harmon, and A. T. Gifford, assignors to Dutcher Temple Company, Hopedale, Mass. Drilling-machine	317,635	May 12	949	243	31	703
French, John T., Taunton, Mass. (See Dunn and Harris, assignors.)						
French, Carmi M., assignor of one-half to M. Beardsley, Waterford, Mich. Wheel-plow	333,065	Dec. 22	2619	{ 626 627 }	33	1487
French, Charles W., et al. (See Gleason, Rollin H., assignor.)						
French, Edwin, and F. Parvin, said Parvin assignor to A. F. Pack, Emporia, Kans. Sulky-harrow	315,492	Apr. 14	714	{ 188 189 }	31	133
French, Frank L., Meriden, N. H. Adjustable axle-nut	313,311	Mar. 3	399	99	30	849
French, Frank W., Abbot, Me. Device for setting floor-boards	321,353	June 30	3233	661	31	1671
French, G. Herbert. (See Riley and French.)						
French, George P., Rochester, N. Y. Lubricating compound	324,018	Aug. 11	827	.....	32	685
French, George W., and J. A. Mattern, Colfax, said French assignor to T. Mitchell, Mitchellville, Iowa. Loom	319,475	June 9	664	184	31	1184
French, H. Palmer, et al. (See Gleason, Rollin H., assignor.)						
French, Henry W., assignor to Lane Manufacturing Company, Waterbury, Conn. Apparatus for manufacturing covered buttons	323,803	Aug. 4	541	154	32	625
French, Howard B., et al. (See Longstreth, John L., assignor.)						
French, John M. (See Gill, James C., assignor.)						
French, John M., Chelsea, assignor of one-half to G. B. Fisher, Millis, Mass. Bridle-bit	319,897	June 9	1265	333	31	1287
French, John T., Taunton, Mass. Device for trimming wall-paper	318,556	May 26	2195	556	31	951
French, Josiah F., Philadelphia, Pa. File-cutting machine	333,458	Dec. 22	3163	{ 826 827 }	33	1568
French, Julia B., Boston, Mass. Combined wash and bath tub	317,333	May 5	556	141	31	624
French, Melvin J. (See Kirkpatrick and French.)						
French, Samuel H., et al. (See Longstreth, John L., assignor.)						
French Spring Company, A. (See French, William, assignor.)						
French, William A., et al. (See Longstreth, John L., assignor.)						
French, Zachary T., Boston, Mass., assignor to Goodyear & McKay Sewing Machine Company, Hartford, Conn. Sole-sewing machine	317,758	May 12	1106	291	31	733
French, Zachary T., Boston, Mass., assignor to Goodyear & McKay Sewing Machine Company, Hartford, Conn. Sole-sewing machine	317,759	May 12	1109	292	31	734
Frenier, John H., Rutland, Vt. Stone-sawing machine	315,608	Apr. 14	878	221	31	163
Frenier, Joseph, La Porte, Ind. Wheel	313,931	Mar. 17	1238	322	30	1023
Frenyear, Thomas C., et al. (See Lane, Frederick, assignor.)						
Frenyear, Thomas C., Boston, assignor of one-half to L. E. Razee, Attleborough, Mass. Push-button	317,450	May 5	714	179	31	652
Frenzol, Franz J., Jr., New York, N. Y. Encaustic tile	332,369	Dec. 15	1676	439	33	1311
Freschl, Alfred, Detroit, Mich. Burial-casket drapery	313,820	Mar. 10	1060	273	30	969
Friend, George, Durango, Colo. Knife for miners	313,414	Mar. 3	522	137	30	755
Frey, Frederick E., Bucyrus, Ohio. Brick and tile machine	320,665	June 23	2595	668	31	1547
Frey, Mamie F., Indianapolis, Ind. Button-hook holder for shoes	317,451	May 5	716	180	31	652
Freygang, Albert, New York, N. Y. Device for filling lamps	324,547	Aug. 18	1552	428	32	827
Frick, Abraham O. (See Snyder and Frick.)						
Frick, Abraham O., Waynesborough, Pa. Road-engine	314,172	Mar. 17	1541	403	30	1079
Frick, Abraham O., Waynesborough, Pa. Making metallic suspension-wheels by casting	314,173	Mar. 17	1542	403	30	1079
Frick, Abraham O., Waynesborough, Pa. Steam-boiler	331,468	Dec. 1	328	89	33	1057
Frick, Charles W., Becker, Ill. Evaporating pan and furnace	310,403	Jan. 6	320	88	30	62
Frick Company. (See Richey, James N., assignor.)						
Frick, Rudy, and O. J. Rowe, Harrisville, Ind. Hay-rake	318,459	May 26	2045	552	31	925
Fricke, Joseph R., Pittsburg, Pa. Lightning-conductor	311,115	Jan. 10	1258	345	30	246
Friedenthal, Albert, New York, N. Y. Show-tray for rings	312,835	Feb. 24	1879	514	30	730
Friedenwald, Benjamin B., et al. (See Haydn, George, assignor.)						
Friedenwald, Joseph, et al. (See Haydn, George, assignor.)						
Friedmann, Albert, Milwaukee, Wis., and A. L. Blumenberg, Kalamazoo, Mich. Corkscrew	330,974	Nov. 24	2037	556	33	939

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Friday, Jacob, Bound Brook, N. J. Seed-planter.....	322,593	July 21	1588	422	32	306
Friedrich, Henry, and C. W. Carson, Port Chester, N. Y. Portable basket-grate.....	324,102	Aug. 11	939	259	32	705
Friedrick, Alphonse, Brooklyn, N. Y. Construction of skylights, &c.....	320,235	June 16	1726	458	31	1378
Friemann, Heinrich. (See Wolf and Friemann.)						
Friend, James W. (See Ellis, Josiah W., assignor.)						
Friend, Jesse L., Perrysburg, Ind. Brick or tile die.....	331,391	Dec. 1	192	50	33	1032
Friend, Samuel, Decatur, Ill. Splint for baskets, &c.....	312,197	Feb. 10	1009	275	30	543
Fries, Anthony. (See Cassidy and Fries.)						
Friess, Charles, and J. N. Todd, Minneapolis, Minn. Bevel.....	320,866	June 23	2399	689	31	1548
Friess, Edward, Louisville, Ky. Molder's disk.....	314,927	Mar. 31	2571	680	30	1304
Frings, Charles H., Philadelphia, Pa., assignor to New Era Brewing Company, Milwaukee, Wis. Manufacturing carbonated malt beverages.....	316,451	Apr. 28	2043		31	368
Friabee, Gideon, Elmore, Ohio. Machine for pulverizing ores, &c.....	321,429	July 7	92	5	32	7
Friabee, Gideon, Elmore, Ohio. Machine for pulverizing ores, &c.....	321,430	July 7	92	6	32	7
Frisbie, Henry R., Cromwell, assignor to Pratt & Cady Company, Hartford, Conn. Swivel-connection for valves and their spindles.....	324,676	Aug. 18	1739	479	32	861
Frisbie, Milton B., Walnut, Iowa. Trace-carrier.....	320,549	June 23	2201	581	31	1471
Frisbie & Starsfield. (See Dow, Frank L., assignor.)						
Fritts, William H., Plano, Ill. Grain-binding machine.....	324,464	Aug. 18	1441	394	32	806
Fritz, August, Chicago, Ill. Velocipede.....	324,626	Aug. 25	1949	535	32	907
Frizzell, Joseph P., Boston, Mass. Step-bearing for vertical shafts.....	321,228	June 30	3153	841	31	1655
Frizzell, D. W. (See Headen, Minnie, assignor.)						
Frock, Henry. (See Leitzel and Frock.)						
Froehlich, Ernest H. (See Turner, Clayton A., assignor.)						
Froeschels, Frederick, Nuremberg, Germany. Pencil or crayon holder.....	324,764	Aug. 18	1854	510	32	883
Froehlich, Ferdinand, New York, N. Y. Fire-extinguishing compound.....	310,404	Jan. 6	321		30	62
Frommelt, Alfred E. (See Weber, Hennig, and Frommelt.)						
Frossard, Joseph, assignor to Dubail, Mounin, Frossard et Cie., Poreutruy, Switzerland. Machine for turning watch-cases.....	312,198	Feb. 10	1010	275	30	543
Frost, Abel H., and F. L. Bryant, assignors to Ames & Frost, Chicago, Ill. Machine for attaching fabrics to bed-bottom frames.....	319,476	June 9	686	124 185	31	1185
Frost, Abel H., and F. L. Bryant, assignors to Ames & Frost, Chicago, Ill. Cot-bed.....	329,384	Oct. 27	2557	659 680	33	486
Frost, Charles H. (See Burkman, Walfrid, assignor.)						
Frost, Charles W., Philadelphia, Pa. Calendar. (Reissue).....	10,648	Sept. 29	3021	802 803	32	1602
Frost, Edward J. (See Thomas and Frost.)						
Frost, Edward J., Philadelphia, Pa. Carburetor.....	312,836	Feb. 24	1879	515	30	720
Frost, Edward J., Philadelphia, and T. Dawson, Montgomery County, Pa. Car-axle box.....	325,668	Sept. 8	603	152	32	1134
Frost, Ellis F., assignor of one-half to T. W. Gleason, Boston, Mass. Individual signaling apparatus.....	320,923	June 30	2681	712	31	1569
Frost, George, West Newton, assignor of two-thirds to G. H. Phelps and G. A. Frost, Newton, Mass. Clasp or fastening.....	310,504	Jan. 6	433	119	30	84
Frost, George, assignor of two-thirds to G. A. Phelps and G. A. Frost, Newton, Mass. Sleeve-supporter.....	313,584	Mar. 10	745	196	30	925
Frost, George A., et al. (See Frost, George, assignor.)						
Frost, George S. (See Hayes, Joseph, assignor.)						
Frost, Joseph W., New York, N. Y. Electric fire-arm.....	319,998	June 9	1266	334	31	1287
Frost, Roger P., Fitchburg, Mass. Wick-adjuster for oil-stoves.....	314,928	Mar. 31	2572	680	30	1304
Frost & Son, M. S. (See Smith, Carlos A., assignor.)						
Frost & Son, M. S., et al. (See Martin, Thomas F., assignor.)						
Frost, Stiles. (See Kempster, Daniel E., assignor.)						
Frost, Stiles. (See Newell, George F., assignor.)						
Frost, Walter S., London, England. Glove-fastener.....	310,573	Jan. 13	539	146	30	108
Frost, Warren H., Cleveland, Ohio. Garment-supporter.....	331,392	Dec. 1	193	50	33	1032
Frost, William B., assignor of one-half to G. S. Ingersoll, San Francisco, Cal. Harness-chock.....	324,765	Aug. 18	1855	511	32	883
Froude, Richard H. (See Heenan and Froude.)						
Frow, James P. (See Eckles and Frow.)						
Fruthey, Matthew G., Scranton, Pa. Book-rack for church-pews, &c.....	316,535	Apr. 28	2144	564	31	407
Fry, Abraham B., Pottstown, Pa. Hoop-coiling machine.....	327,935	Oct. 6	558	145	33	100
Fry, Charles H., Jr., Wheeling, W. Va., assignor of one-half to C. M. Rhodes, Bridgeport, Ohio. Spinning-top.....	310,574	Jan. 13	533	146	30	108
Fry, Charles H., Jr., Wheeling, W. Va., assignor of one-half to C. M. Rhodes, Bridgeport, Ohio. Cap for fruit-jars.....	326,492	Sept. 15	1685	440	32	1341
Fry, John A., Bakersfield, Cal. Movable gate for irrigating.....	321,593	July 7	265	67	32	49
Fry, John M., Rothsville, Pa. Nut-lock.....	323,212	Dec. 29	2893	741	33	1530
Fry, Stephen D., Attica, Ind. Fence-making machine.....	326,029	Sept. 8	1075	274	32	1820
Fry, William A., Washington, D. C. Hoisting, carrying, and delivering apparatus.....	329,546	Nov. 3	170	45	33	538
Frye, William H. H., Kansas City, Mo. Cloth-measuring device.....	316,887	Apr. 28	2642	688 689	31	499
Fryer, Robert M., New York, assignor of one-half to T. O'Meara, Brooklyn, N. Y. Gland or packing follower.....	320,924	June 30	2684	715	31	1569
Frywinger, Jacob, Rock Island, Ill. Railway-track.....	332,707	Dec. 22	2139	565	33	1398
Fuchs, Ernest, Chicago, Ill., assignor of one-half to K. Schrimpf, Minneapolis, Minn. Combined lockset and coin and letter scale.....	324,465	Aug. 18	1443	395	32	806
Fuchs, Peter, Davenport, Iowa. Feeding mechanism for mills, &c.....	320,867	June 23	2399	689	31	1548
Fuchs, Johann, and J. Schweickert, Stuttgart, Wurtemberg, Germany. Shaving-cup.....	328,020	Oct. 13	668	176	33	128
Fuechsel, Albert E., Mount Vernon, N. Y. Garter.....	323,866	Aug. 4	621	174	32	640
Fuhrman, William, Tomah, Wis. Thill-ompling.....	315,929	Apr. 14	1325	345	31	246
Fulck, George. (See Spengler, Christian G., assignor.)						
Fulgham, Jesse F., assignor of one-half to Wayne Agricultural Company, Richmond, Ind. Fence-machine.....	330,887	Nov. 24	1942	526	33	898
Fulkerson, Charles M. (See Andrus, Carlos F., assignor.)						
Fuller, Diederich F., New York, N. Y. Pillow-sham support.....	332,195	Dec. 8	1399	361	33	1255
Fuller, Andrew. (See Reichert and Fuller.)						
Fuller, Arthur. (See Judd, Edward C., assignor.)						
Fuller, Arthur A., Providence, R. I., assignor to H. Meriam, Springfield, Mass. Book-holder.....	317,937	May 12	1346	362	31	779
Fuller, Arthur A., Providence, R. I., assignor to H. Meriam, Springfield, Mass. Book-support.....	319,899	June 9	1268	334	31	1288
Fuller, Aspinwall, New York, N. Y. Marine-engine governor.....	323,314	July 28	2608	694	32	497
Fuller, Charles A., Boston, Mass., assignor to J. S. Silver, New York, N. Y., and J. W. Marden, Malden, Mass. Car-brake clamp.....	323,536	July 21	1520	400	32	293

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Fuller, Charles C., Worcester, Mass. Mask	397,438	Sept. 29	2993	782	32	1598
Fuller, Daniel, Oakwood, Mich. Creaming-can	321,354	June 30	3234	862	31	1671
Fuller, David S., assignor or one-half to W. De Golyer, Chicago, Ill. Goose-call	333,094	Dec. 23	2666	699	33	1495
Fuller, Eben E., Monticello, assignor of one-half to G. Houghton, Minneapolis, Minn. Bal- ing-press	318,460	May 26	2046	{ 552 553 }	{ 31	926
Fuller Electrical Company. (See Wood, James J., assignor.)						
Fuller, Frank. (See Billings and Mueller, assignors.)						
Fuller, George H., Pawtucket, R. I. Manufacture of jewelers' findings	323,927	Aug. 11	706	198	32	684
Fuller, Harrie E., Fredonia, Kans. Sifter for flour, &c	310,405	Jan. 6	321	88	30	62
Fuller, Harriet. (See Fuller, Lucinda and H.)						
Fuller, Hiram E., assignor to Fuller Manufacturing Company of New York, New York, N. Y. Bit-brace	320,868	June 23	2601	689	31	1548
Fuller, Isaac Y., et al. (See Reagles, Isaac V., assignor.)						
Fuller, J. Ensign, Chicago, Ill. Telephone-transmitter	316,888	Apr. 28	2643	689	31	499
Fuller, J. Ensign, Chicago, Ill. Telephone-receiver	322,884	July 21	1995	527	32	379
Fuller, Jacob C. (See Norton and Rouse, assignors.)						
Fuller, Jefferson, Huntington, W. Va. Car-coupling	315,401	Apr. 7	574	148	31	103
Fuller, Jennie R., Toledo, Ohio. Fire-escape	331,489	Dec. 1	330	89	33	1057
Fuller, Levi C., Fayette, Mo. Fifth-wheel	324,827	Aug. 25	1949	535	32	907
Fuller, Lucinda and H., assignor of one-fourth to H. L. Fraer, Detroit, Mich. Window- sash	323,867	Aug. 4	621	175	32	640
Fuller Manufacturing Company of New York. (See Fuller, Hiram E., assignor.)						
Fuller, Nason H., and H. S. Hallock, Menlo, Iowa. Fence-wire coupling	311,480	Feb. 3	25	7	30	353
Fuller, Solomon, assignor to W. M. Currier, Danvers, C. J. Bowker, Boston, and J. J. H. Gregory, Marblehead, Mass. Wheel-hoe	324,466	Aug. 18	1444	395	32	806
Fuller & Warren Company. (See Wolfe, Gurdon G., assignor.)						
Fuller, Willard M. (See Burr and Fuller.)						
Fullerton, George A. (See Flagg and Fullerton.)						
Fullerton, George A., Boston, Mass. Machine for molding heel-stiffeners	325,797	Sept. 8	781	{ 196 197 }	{ 32	1166
Fullgraff, Ludolph A. (See Smith, Edward G., assignor.)						
Fullman, George, Denver, Colo. Apparatus for interlocking switches and signals	313,585	Mar. 10	745	{ 196 197 }	{ 30	925
Fulmer, R. A. (See Winfield, Charles G., assignor.)						
Fulmer, Wilson A., Harleysville, Pa. Coat	328,207	Oct. 13	907	236	33	172
Fulton, Louis B. (See Robertson and Fulton.)						
Fulton, Samuel, Brooklyn, N. Y. Mattress	322,266	July 14	1285	336	32	244
Fulton, Sydney W., West Taieri, near Dunedin, New Zealand. Fence-wire strainer	310,505	Jan. 6	434	119	30	84
Funk, Absalom C., Monticello, Ill. Soil pulverizer and leveler	316,889	Apr. 28	2644	689	31	499
Funk, Isaac K. (See Ludlow, Funk, and Wagnalls.)						
Funk, John, Menlo, Iowa. Hay rake and loader	320,311	Nov. 10	1185	316	33	740
Funk, Michael, La Crosse, Wis. Feed-water heater	317,636	May 12	950	244	31	703
Funk, Solomon, Spirit Lake, Iowa. Weather-strip	311,625	Feb. 3	468	127	30	437
Funk, Solomon, Spirit Lake, Iowa. Weather-strip	322,479	Oct. 20	1269	529	33	246
Furbush, Zachary T., and F. L. Hamlen, Augusta, Me. Screw-driver	315,137	Apr. 7	196	48	31	36
Furbush, Charles A., et al. (See Meyer, Benjamin F., assignor.)						
Furbush, Merrill A., et al. (See Meyer, Benjamin F., assignor.)						
Furlong, James M., Rochester, N. Y. Machine for producing rectilinear reciprocating motion	332,708	Dec. 22	2140	565	33	1398
Furlong, Robert, Sancelito, Cal. Ladder	322,171	July 14	1042	270	32	198
Furman, Charles E. (See Clarke and Harsin, assignors.)						
Furman, Charles E., New York, N. Y. Illuminating-tile for sidewalks, roofing, &c	311,891	Feb. 10	580	159	30	464
Furman, Frederic J., Geneva, N. Y. Steam-generator	332,198	Dec. 8	1400	362	33	1256
Furman, Lemuel, Bay City, Mich. Lifting-jack	326,966	Sept. 29	2375	621	32	1479
Furnell, William P., Silver Hill, W. Va. Ballot-box	310,506	Jan. 6	435	120	30	84
Furney, Elliott E., St. Louis, Mo. Apparatus for checking the waste of water	331,490	Dec. 1	331	90	33	1057
Furst, Michael, Brooklyn, N. Y. Safety-lock for spindles on jennies	323,315	July 28	2610	694	32	496
Fusao, Ignazio, Boston, Mass. Upright-piano action	325,669	Sept. 8	604	153	32	1134
Fuss, Harry S. (See Snyder, Benjamin F., assignor.)						
Fussell, Mordecai T., New York, N. Y. Packing and preserving ice-cream	310,266	Jan. 6	141	.....	30	28
Fustier, Henry, Lyons, France. Manufacture of furs	327,543	Oct. 6	55	12	33	11
Fuyat, John G., Taunton, Mass., and T. Fuyat, Providence, R. I. Machine for producing yarn of different colors	320,344	June 16	1901	501	31	1406
Fuyat, Toussaint. (See Fuyat, John G. and T.)						
Fye, Theodore H. (See Belknap and Fye.)						
Fyfe, Alexander L. (See Goldberg and Fyfe.)						
Fyfe, Alexander L., and J. Main, Brixton, county of Surrey, England. Electric-arc lamp	328,022	Oct. 13	670	176	32	128
Fyfe, James. (See McKenzie and Fyfe.)						
Fyke, Jacob D., Los Angeles, Cal. Sash-pulley	318,890	May 26	2630	698	31	1030
Gaar, John M., assignor to Gaar, Scott & Company, Richmond, Ind. Straw-stacker	325,626	Sept. 1	421	104	32	1097
Gaar, Scott & Company. (See Campbell, Howard, assignor.)						
Gaar, Scott & Company. (See Campbell and Land, assignors.)						
Gaar, Scott & Company. (See Gaar, John M., assignor.)						
Gabel, Johanna M., executrix. (See Gabel and Guelpa.)						
Gabel, John F., deceased, (J. M. Gabel executrix,) and J. B. Guelpa, Chelsea, Mass. Nip- ple-plate for type-casting machines	327,079	Sept. 29	2519	656	32	1504
Gable, Henry A. (See Mabailey, James B., assignor.)						
Gabler, Emil, New York, N. Y. Piano-forte	324,467	Aug. 18	1445	395	32	807
Gacon, Adrien, Paris, France. Blasting-powder	314,824	Mar. 31	2433	.....	30	1980
Gadberry, Harvey O., Washington, Ind. Cog-wheel	324,932	Aug. 25	2087	571	32	934
Gage, Charles W. (See Wright, Gage, and Hitchcock.)						
Gage, H. M. (See Ames, Charles H., assignor.)						
Gage, John H., Chicago, Ill. Car-cover	316,536	Apr. 28	2145	564	31	408
Gage, John P., Vineland, N. J. Bench-plane	323,804	Aug. 4	543	154	32	625
Gage, Wellesley W., Yonkers, N. Y. Discharge and waste pipe protector	313,068	Mar. 3	42	11	30	786
Gagnier, Barney J., Detroit, Mich. Wash-boiler	311,070	Jan. 20	1193	328	30	235
Gahagen, Thomas N., Templeton, Pa. Two-wheeled vehicle	318,557	May 26	2197	587	31	951
Gahler, Reinhold, and T. Pilz, assignors of one-half to E. M. Cohen, Baltimore, Md. Gline	318,367	May 19	1927	.....	31	695
Gaiger, Robert, West Hoboken, N. J. Rubber-stamp hand-printing machine	312,456	Feb. 17	1366	377	30	618
Gail, George W., et al. (See Foster, Thomas J., assignor.)						
Gaillard, Ella N., New York, N. Y. Fountain	327,673	Oct. 6	237	58	33	42
Gaillard, Léopold, Livron, France. Utilizing the power of running water for propelling vessels	320,125	June 16	1586	419	31	1352

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Gailliot, Carl. (See Simpson, Gladhill, and Gailliot.)						
Gaines, Hiram F., assignor of one-third to R. E. Casey, Rouse's Point, N. Y. Seal-lock	319,400	June 2	564	153	31	1155
Gattley, John E., Troy, N. Y. Machine for colling wire	319,810	June 9	1145	303	31	1267
Gattley, John E., Troy, N. Y. Handle for steam-valves	327,251	Sept. 29	2749	713	32	1546
Galatin, Erwin A., and J. B. Taets, South Westerlo, N. Y. Thill-coupling	312,112	Feb. 10	878	240	30	519
Galbreath, Charles E., Osage Mission, Kans. Thill-support	330,888	Nov. 24	1944	526	33	898
Gale, Augustus J., assignor to Gale Manufacturing Company, Albion, Mich. Sulky-plow	325,069	Aug. 25	2270	624	32	968
Gale, Clarence A., Big Rapids, Mich. Clip for wagons	321,707	July 7	309	106	32	75
Gale, Clarence A., Big Rapids, Mich. Wagon end-gate	326,420	Sept. 15	1601	417	32	1220
Gale, Daniel J., Bristol, Conn. Calendar-clock	316,254	Apr. 21	1756	461 462	31	332
Gale, Edward. (See Dunlap, John S., assignor.)						
Gale, Frank A., Lowell, Mass. Condensing-engine	310,575	Jan. 13	534	147	30	108
Gale, Franklin, Muskegon, Mich. Wood-polishing machine	325,527	Sept. 1	423	104 105	32	1077
Gale, Henry F., Syracuse, N. Y. Cable-coupling	329,727	Nov. 3	407	104	33	723
Gale, Horace B., Natick, Mass. Electric lighting apparatus	319,573	June 9	816	217	31	1268
Gale Manufacturing Company. (See Gale, Augustus J., assignor.)						
Gale, Morgan, Corozal, San Salvador, Central America. Wrench	332,286	Dec. 22	2374	626	33	1442
Galentine, Allen S., assignor of one-half to F. M. Axe, Valparaiso, Ind. Stem-winder mechanism for watches	314,288	Mar. 24	1692	451	30	1117
Galea, Peter, Gilbertsville, Iowa. Harrow	320,773	June 23	2421	657	31	1326
Gallacher, James I. (See Merodith, Gallacher, and Jones.)						
Gallagher, Bernard, Lynn, Mass. Rail-fastening device	311,102	Jan. 20	1321	363	30	257
Gallagher, Bernard, Lynn, Mass. Cutter-head for trimming the heels of boots or shoes	330,008	Nov. 10	794	204	33	659
Gallagher, Christopher. (See Briscoe and Gallagher.)						
Gallagher, Christopher. (See Johnston, William, assignor.)						
Gallagher, James E., Okan, N. Y. Explosive weight for torpedoes	316,137	Apr. 21	1614	422	31	306
Gallagher, John A., Stockton, Cal. Two-wheeled vehicle	331,957	Dec. 8	1055	274	33	1197
Gallagher, Michael, New York, N. Y. Fire-board	319,221	June 2	345	93	31	1112
Galland, Berthold, et al. (See West, Jonathan B., assignor. (Reissue.)						
Galland-Mason, Robert, Douglas, Isle of Man, England. Microphotographic attachment for spectacles	319,401	June 2	566	154	31	1156
Galle, Charles, Columbia, Mo. Cutting apparatus for harvesters	319,222	June 2	346	93	31	1113
Gallet, Victor, Brest, France. Electric alarm-clock	318,612	May 26	2256	603	31	962
Gallinger, Alexander, Oshkosh, Wis. Forming tracks or ruts in ice-covered logging-roads	326,209	Sept. 15	1326	343	32	1274
Galloupe, Francis E., Lynn, Mass. Steam or other hot gas cylinder	333,294	Dec. 29	2953	771	33	1553
Galloway, George A., Le Claire, Iowa. Boiler-cleaner	314,326	Mar. 24	1747	465	30	1127
Galloway, James A., Spring Hill, assignor to E. J. and E. E. Rembert, Rembert, S. C. Flood gate	329,728	Nov. 3	408	105	33	523
Galloway, James B., et al. (See Tuerk, Samuel, assignor.)						
Galloway, James W., assignor to Stout, Mills & Temple, Dayton, Ohio. Roller-mill	313,312	Mar. 3	400	99	30	849
Galloway, Thomas D., Oshawa, Ontario, Canada. Spring-hoe attachment for seeding-machines	313,719	Mar. 10	918	239	30	958
Galloway, Thomas D., Oshawa, Ontario, Canada. Sowing-machine	321,099	June 30	2925	774	31	1612
Gallt, William T., Port Byron, N. Y. Shirt-lace	314,661	Mar. 31	2195	563	30	1235
Gallup Novelty Works. (See Gallup, William H., assignor.)						
Gallup, Silas N. (See Corser, E. Jay, assignor.)						
Gallup, William H., assignor to Gallup Novelty Works, Troy, N. Y. Apparel-collar	311,184	Jan. 27	1362	373	30	271
Gally, Merritt, New York, N. Y. Mechanical musical instrument	314,012	Mar. 17	1331	347	30	1041
Gally, Merritt, New York, N. Y. Organ-reed	314,234	Mar. 24	1616	427	30	1103
Gally, Merritt, New York, N. Y. Organ-reed	314,235	Mar. 24	1617	428	30	1103
Gally, Merritt, New York, N. Y. Musical reed	315,493	Apr. 14	1715	189	31	134
Gally, Merritt, New York, N. Y. Organ-reed	324,371	Aug. 18	1318	352	32	724
Gally, Merritt, New York, N. Y. Organ-reed	326,638	Sept. 22	1688	495	32	1385
Gally, Merritt, New York, N. Y. Mechanical musical instrument	329,304	Oct. 27	2429	630	33	464
Gally, Merritt, New York, N. Y. Mechanical musical instrument	331,747	Dec. 1	753	190	33	1132
Galt, Thomas A., et al. (See Foust, James W., assignor.)						
Galt, Thomas A., et al. (See Johnson, William F., assignor.)						
Galvin, John. (See Galvin, Thaddeus and J.)						
Galvin, Thaddeus and J., Detroit, Mich. Valve	321,807	July 7	541	143	32	101
Gamble, George R. (See Cohee and Gamble.)						
Gambles, Jeuneles, Cresskill, N. J. Door	323,658	Aug. 4	366	104	32	591
Gambrell, William B., and P. Russell, Woodberry, Md. Let-off mechanism for looms	332,827	Dec. 22	2374	622	33	1442
Gannon, James G., Wayne City, Ill. Car-coupling	326,421	Sept. 15	1602	417	32	1220
Gammons, Ferdinand C., assignor to Eagle Cotton Gin Company, Bridgewater, Mass. Cotton-gin	327,936	Oct. 6	559	145	33	100
Gammons, Ferdinand C., assignor to Eagle Cotton Gin Company, Bridgewater, Mass. Cotton-gin	327,937	Oct. 6	560	145	33	100
Gammons, Ferdinand C., assignor to Eagle Cotton Gin Company, Bridgewater, Mass. Rib for cotton-gins	332,069	Dec. 8	1221	319	33	1225
Gampet, Franz, Salzburg, Austria-Hungary. Apparatus for lowering coffins into graves	327,725	Oct. 6	362	94	33	64
Gandee, Abraham C., Syracuse, Ohio. Churn	327,938	Oct. 6	561	145	33	100
Gandil, Charlotte A., Brooklyn, N. Y. Lady's skirt-protector	319,477	June 9	690	175	31	1125
Gandy, Maurice, Liverpool, county of Lancaster, England. Belt	311,242	Jan. 27	1446	394	30	226
Gandy, Maurice, Liverpool, England. Belt for driving machinery	313,069	Mar. 3	43	11	30	726
Gandy, Maurice, Liverpool, England. Machine for the manufacture of belting	314,225	Mar. 31	2434	642 643	30	1220
Gandy, Maurice, Liverpool, England. Manufacturing textile belts	331,958	Dec. 8	1057	274 275	33	1197
Ganick, Louis, Rockford, Ill. Deck attachment for trunks	321,961	July 14	759	192	32	146
Gannaway, Edward, Nashville, Tenn. Automatic electrical cut-off	313,313	Mar. 3	401	99	30	850
Gannaway, Moning R., Unionville, Tenn. Fruit-jar	314,229	Mar. 24	1693	451	30	1117
Gannett, Jasper, Ruthven, Iowa. Corn-planter	319,223	June 2	347	93	31	1113
Gannett, Jasper, Ruthven, Iowa. Combined corn-planter and check-mower	323,505	Aug. 4	160	47, 48	32	552
Gannon, Thomas, Jersey City, N. J. Surface-condenser	320,647	June 23	2222	615	31	1495
Gano, Merritt W., et al. (See Prentiss, Frank S. R., assignor.)						
Ganse, Hervey D., Lake View, Ill. Device for operating a set of levers	331,629	Dec. 1	588	145	33	1100
Ganser, Nicolas H., Chicago, Ill. Billiard-table	322,436	July 21	1378	360 361	32	268
Gans, Jacob, Brooklyn, N. Y., assignor to Ansonia Clock Company, Ansonia, Conn. Pendulum-regulator	322,097	July 14	942	244	32	120
Gantner, William H., Pittsburg, Pa. Measure for liquids	311,304	Jan. 27	1537	418	30	303

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Gants, William H., assignor of one-half to G. E. Herrick, San Francisco, Cal. Valve for water-closets and other receptacles.	313,314	Mar. 3	402	100	30	850
Gantter, Louis. (See Hennesey, Thomas F., assignor.)						
Garbo, Conrad, Berlin, Germany. Magazine-gun.	315,609	Apr. 14	882	232	31	164
Garcin, Leonpaul P., San Francisco, Cal. Dovetailing-machine.	331,491	Dec. 1	333	90	33	1067
Gard, Stephen J., and J. Zaruba, Goshen, Iowa. Weather-strip.	310,406	Jan. 6	323	89	30	63
Gard, William E., Meriden, Conn. Door-check.	233,405	Dec. 29	3094	807	23	1577
Gardam, Frederick W., assignor of two-thirds to W. and J. Gardam, Brooklyn, N. Y. Securing the parts of transits and other instruments of precision.	395,070	Aug. 25	2271	624	32	968
Gardam, Joseph, <i>et al.</i> (See Gardam, Frederick W., assignor.)						
Gardam, William, <i>et al.</i> (See Gardam, Frederick W., assignor.)						
Gardanier, George W., New York, N. Y. Telegraphic relay.	316,956	May 5	36	10	31	520
Gardanier, George W., New York, N. Y., assignor to Baltimore & Ohio Telegraph Company, Baltimore, Md. Repeater for quadruplex telegraphs.	320,637	Sept. 22	1886	495	32	1384
Gardiner, Delmer, Prattburg, N. Y. Wall-paper rack.	318,461	May 26	2048	553	31	926
Gardiner, George S., and J. W. McAuley, Lyons, Iowa. Saw-guide.	320,550	June 23	2202	581	31	1471
Gardiner, Robert M., Fredericksburg, Ohio. Hay and grain unloader.	319,558	May 26	2198	587	31	951
Gardner, Addison E., assignor of one-half to H. B. Beesac, Milan, Mich. Pendulum-level.	318,099	May 19	1570	420	31	898
Gardner, De Alton, Plymouth, Wis. Roller for gates.	321,708	July 7	399	107	32	74
Gardner, Edward, Allegheny City, Pa. Car-brake.	324,542	Aug. 19	1553	428	32	897
Gardner, Ernest M., assignor to J. L. Little, Jr., Boston, Mass. Galvanic cell.	328,508	Oct. 13	908	236	33	173
Gardner, Frank B., Columbus Grove, Ohio. Horseshoe.	331,622	Dec. 1	568	144	33	1100
Gardner, George F., <i>et al.</i> (See Winchell, Addison H., assignor.)						
Gardner, Isaac. (See Hardy, Cyrus H., assignor.)						
Gardner, James D., and J. N. Brumelow, Morgan, Tex. Clothes-washer.	326,860	Sept. 22	2228	582	32	1445
Gardner, James W., Whitaker's, N. C. Back-band.	332,888	Dec. 22	2375	628	33	1442
Gardner, John, assignor of one-half to R. Ryan, Bloomingdale, Ill. Well-drilling apparatus.	313,821	Mar. 10	1062	273	30	983
Gardner, John, assignor to Winchester Repeating Arms Company, New Haven, Conn. Machine for counting gun-wads.	320,236	June 16	1728	458	31	1378
Gardner, John N., Chesterfield, S. C. Cotton-seed planter.	316,255	Apr. 21	1759	463	31	332
Gardner, Marshall, Aurora, Ill. Corset.	325,600	Sept. 1	509	127	32	1112
Gardner, Miles W., assignor of one-half to Michigan Stove Company, Detroit, Mich. Stove.	311,833	Feb. 3	255	71	30	396
Gardner, Pliny F., Hill's Ferry, Cal. Apparatus for cooling and drawing beer.	322,508	Dec. 15	1832	481	33	1332
Gardner, Robert J., Lovelady, Tex. Planter.	328,306	Oct. 13	1032	267	33	195
Gardner, Sigmond, Savannah, Ga. Hinge for carriage doors.	320,345	June 16	1903	501	31	1468
Gardner, Sylvanus A., assignor of one-half to C. F. Baker, Jamestown, N. Y. Step-ladder.	310,814	Jan. 13	834	226	30	163
Gardner, William, assignor of one-half to C. H. Neil, Lancaster, Ohio. Machine for dressing feller.	320,467	June 23	2004	552	31	1452
Gardner, William, assignor to A. E. Boecher, New York, N. Y. Roller for skates.	320,774	June 23	2422	657	31	1526
Gardner, Wilson, Washington Court-House, Ohio. Baling-press.	331,049	Nov. 24	2141	580	33	926
Garé, Christian, Logan, Utah Ter. Automatic switch for dovetailing-machines.	283,295	Dec. 29	2954	771	33	1533
Garfield, Joel. (See Nutting, Rich. and Garfield.)						
Garfield Manufacturing Company. (See Stender, Charles F. G., assignor.)						
Garich, Robert, Chicago, Ill. Aligning-instrument.	322,921	July 28	2048	541	32	396
Garland, Michael, and A. D. Catlin, assignors to Standard Machinery Company, Bay City, Mich. Circular sawing machine.	328,771	Oct. 20	1650	432	33	318
Garland, Milton H., Everett, assignor of two-thirds to J. S. Rice, Cambridge, N. W. Payne and A. H. Spencer, Boston, Mass. Can or receptacle.	325,925	Sept. 8	934	237	32	1195
Garland, Richard H., Chicago, Ill. Spring-motor for propelling vehicles.	311,305	Jan. 27	1538	418	30	363
Garlick, Charles, Syracuse, N. Y. Hinge for awning-blinds.	326,267	Sept. 29	2376	622	32	1479
Garlick, J. P. (See Fox, John S., assignor.)						
Garrington, Thomas C., Lafayette, Ala. Planter.	330,975	Nov. 24	2058	567	33	990
Garman, Adam M., assignor to himself and W. J. Garman, Sinking Creek, Va. Wagon-brake.	321,709	July 7	401	107	32	75
Garman, William J. (See Garman, Adam M., assignor.)						
Garmany, Frank C. (See Bulloch, Robert H., assignor.)						
Garnar, George W. (See MacLachlan, John W., assignor.)						
Garner, Amaziah, Lynchburg, Ohio. Dental impression-cup.	310,407	Jan. 6	324	89	30	63
Garner, Amaziah, Lynchburg, Ohio. Dental lip-holder.	323,573	Aug. 4	248	73	32	588
Garnett, Louis A., <i>et al.</i> (See Ludwig, John C., assignor.)						
Garrard, Israel, Frontenac, Minn. Sail-boat.	313,664	Mar. 10	852	221	30	946
Garrard, Jephtha, Cincinnati, Ohio. Platform for harvesters.	316,757	May 5	37	10	31	529
Garrard, Jeremiah, Muncie, Ind. Bedstead.	320,925	June 30	2680	713	31	1569
Garrard, Samuel, assignor of one-third to J. W. Tatum, Durham, N. C. Plant-protector.	311,116	Jan. 20	1258	345	30	246
Garratt, William T. (See Pitchford, John B., assignor.)						
Garretson, George E., Russellville, Ky. Running-gear for vehicles.	328,933	Oct. 27	1825	491	33	366
Garrett, Henry, Dallas, Tex. Electrical alarm for window-screens.	324,019	Aug. 11	928	222	32	665
Garrett, Henry H. (See Westinghouse and Garrett.)						
Garrett, Henry H., Pittsburg, Pa. Molder's flask.	313,315	Mar. 3	403	100	30	850
Garrett, Henry H., Pittsburg, Pa. Gas-furnace.	329,827	Nov. 3	547	139	33	607
Garrett, Henry H., assignor to Westinghouse Machine Company, Pittsburg, Pa. Separator for mingled oil and water.	322,217	July 21	1887	501	32	359
Garrett, Henry H., assignor to Westinghouse Machine Company, Pittsburg, Pa. Molder's flask.	327,252	Sept. 29	2750	713	32	1546
Garrett, Lee S., Fulton, Ky. Sash-fastener.	324,830	Aug. 25	1954	536	32	908
Garrett, Sidney, Mexico, Mo. Washing-machine.	329,157	Oct. 27	2222	575	33	425
Garrett, William, Pittsburg, Pa. Conductor for wire-rod mills.	318,613	May 26	2258	603	31	962
Garrett, William, Pittsburg, Pa. Rolling-mill plant.	319,693	June 9	971	257	31	1237
Garrett, William, Pittsburg, Pa. Rolling-mill plant.	319,694	June 9	974	258	31	1237
Garrett, William, Pittsburg, Pa. Rolling-mill for wire rods.	320,237	June 16	1780	459	31	1379
Garrett, William T., Johnstown, Va. Potato-digger.	319,478	June 9	600	196	31	1165
Garrick, Joseph, Michigan City, Ind. Shell.	322,275	July 14	1161	304	32	221
Garrick, Joseph, Michigan City, Ind. Shell.	325,166	Aug. 25	2268	577	32	969
Garrigues, David W., Woodbury, N. J. Bill-file.	331,125	Nov. 24	2252	619	33	256
Garrison, Garret A., Paterson, N. J. Wardrobe.	315,760	Apr. 14	1084	287	31	285
Garrison, George C., Bennett, Pa. Type-writing machine.	312,113	Feb. 10	677	241	30	320

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Garrison, Jackson, Milnes, Va. Piston-packing	316,770	Apr. 28	2486	647	31	460
Garrison, Samuel R., Camden, N. J., assignor of one-half to R. E. Bender, Philadelphia, Pa. Detachable suspension-hook	327,930	Oct. 6	572	146	33	101
Garrison, Walter S., Baltimore, Md. Molding-machine	331,050	Nov. 24	2142	581	33	936
Garry Iron Roofing Company. (See Langenau, William C., assignor.)						
Garsed, Robert P., Norristown, Pa. Track-buffer	318,462	May 26	2049	554	31	926
Garsed, Robert P., Norristown, Pa. Buffer	318,463	May 26	2050	554	31	927
Garsed, Robert P., Norristown, Pa. Air-pump	325,926	Sept. 8	935	277	33	1195
Garsed, Robert P., Norristown, Pa. Buffer	320,009	Nov. 13	795	204	33	660
Garsed, Robert P., Norristown, Pa. Pump	370,921	Nov. 10	1070	280	33	717
Garside, Robert, assignor to J. E. Randle & Co., Memphis, Tenn. Cotton and hay press	321,208	June 30	3057	811	31	1637
Garsuch, Thompson E., and T. Jones, Viola, Wis. Miter-box	318,464	May 26	2051	554	31	927
Gärtner, Albert. (See Howe and Gärtner.)						
Garton, James P., Jersey City, N. J. Car-axle box	321,710	July 7	401	107	33	75
Garteide, William N., Richmond, Ind. Composition of matter for lining and facing molds	315,402	Apr. 7	575		31	104
Garverick, John M., Harrisburg, Pa. Freight-car	317,111	May 5	235	59	31	567
Garvey, Aaron A. E. (See Kceley and Garvey.)						
Garvey, Michael J. (See Jay and Garvey.)						
Garrin & Co., E. E. (See Hadley, Charles E., assignor.)						
Garwood, Henry H., Trenton, N. J. Machine for making heel-stiffeners	325,071	Aug. 25	2273	693	32	968
Gary, E. Stanley, Baltimore, and H. T. Heath, Elysaville, Md. Spooler	326,422	Sept. 15	1603	417	32	1326
Gary, George E. (See Haverly and Gary.)						
Gaskell, Holbrook, Jr. (See Carey, Gaskell, and Hurter.)						
Gaskell, Holbrook, Jr., Widnes, county of Lancaster, England. Purifying ammonia-soda	326,423	Sept. 15	1604	418	32	1326
Gaskill, Harvey F., Lockport, N. Y. Liquid-meter	313,860	Mar. 17	1123	291 292	30	1002
Gaskill, Harvey F., Lockport, N. Y. Duplex pumping-engine	322,922	July 28	2049	541 542	32	390
Gaskill, Harvey F., Lockport, N. Y. Duplex pumping-engine	324,372	Aug. 18	1319	353 350	32	784
Gaskill, Roland R., Topeka, Kans. Sulky-plow	330,889	Nov. 24	1945	327	31	889
Gaskill, William C., Apalachin, N. Y. Egg-box	324,829	Aug. 25	1953	536	32	963
Gass, William G., Philadelphia, Pa. Transmitting-gearing	326,861	Sept. 22	2220	582	32	1443
Gassett, Oscar. (See Lane, Frederick, assignor.)						
Gassett, Oscar, Boston, Mass. System of electric lighting	310,663	Jan. 13	643	177	30	128
Gassett, Oscar, Boston, Mass. Apparatus for distributing electricity	310,664	Jan. 13	645	177	30	128
Gassett, Oscar, Boston, Mass. Apparatus for the distribution of electricity	310,665	Jan. 13	647	177	30	129
Gassett, Oscar, Boston, Mass. Electric railway	321,138	July 29	2152	624	32	452
Gassett, Oscar, Boston, Mass. Motor-pressure generator	324,828	Aug. 25	1951	535	32	964
Gassett, Oscar, Boston, Mass. Safe	326,424	Sept. 15	1606	418	32	1326
Gassinger, August and A., Jr., Baltimore, Md. Many-spindle lathe	322,509	Dec. 15	1833	481	33	1339
Gassinger, August, Sr. and A., Jr., Baltimore, Md. Lathe for turning spirals	322,510	Dec. 15	1835	482	33	1339
Gaston, Bernard. (See Culbertson, O'Connell, and Gaston.)						
Gaston, George, Baltimore, Md. Overalls	332,070	Dec. 8	1222	319	33	1325
Gaston, George, assignor to Gaston, McCawley & Dozier, Baltimore, Md. Overalls	317,334	May 5	557	142	31	625
Gaston, George P., Silver Creek, N. Y. Adjustable embalming-table	322,437	July 21	1378	361	32	268
Gaston, James M., Atlanta, Ga. Motor	319,970	June 16	1374	361	31	1314
Gaston, McCawley & Dozier. (See Gaston, George, assignor.)						
Gatchell, Albert E. (See Pennington and Gatchell.)						
Gatchouse, Tom E. (See Alabaster and Gatchouse.)						
Gatchouse, Tom E. (See Alabaster, Gatchouse, and Kempe.)						
Gately, Michael R. (See Kelly, Timothy F., assignor.)						
Gately, Philip J. (See Bromley and Gately.)						
Gates, Alfred B., assignor of one-half to S. Mawhinney, Worcester, Mass. Slate-cleaner	330,312	Nov. 10	1186	317	33	740
Gates, Alma F. (See Gates, Ryerson D., assignor.)						
Gates, Charles H., assignor of one-half to S. Forehand, Worcester, Mass. Pedal for velocipedes	327,786	Oct. 6	364	95	33	64
Gates, Charles M. (See Corrigan and Gates.)						
Gates, Frank W., New York, N. Y. Sectional ladder	311,876	Dec. 8	933	241	33	1173
Gates, George S., Athol, Mass. Apparatus for drafting the arm-size of garments	310,666	Jan. 13	648	178	30	129
Gates, George S., Athol, Mass. Sleeve for garments	323,506	Aug. 4	162	48	32	553
Gates, Henry W., Kennedy, assignor of three-fourths to E. S. Rich, East Randolph, N. Y. Construction and preservation of shingle roofs	315,930	Apr. 14	1326	245	31	246
Gates, Martin. (See Bussard and Gates.)						
Gates, Matthias, Kansas City, Mo. Safety harness-hitch	323,406	Dec. 22	3096	807	33	1577
Gates, P. Tenney, New York, N. Y. Combined extension and step ladder	317,987	May 19	1424	382	31	802
Gates, P. Tenney, New York, N. Y. Wash-board	326,554	Sept. 22	1767	403	32	1365
Gates, Philemon T., New York, N. Y. Sectional ladder	316,958	May 5	33	10	31	529
Gates, Philemon W., Chicago, Ill. Combined boring-bar and centering-mandrel	315,271	Apr. 7	404	100	31	73
Gates, Ryerson D., Chicago, Ill. Pulverizing-machine	320,128	June 16	1587	419 420	31	1352
Gates, Ryerson D., assignor to A. F. Gates, Chicago, Ill. Dust-guard for pulverizing-machines, &c.	331,393	Dec. 1	193	50	33	1032
Gates, Ryerson D., and C. Kaestner, Chicago, Ill. Pulverizing-machine	319,479	June 9	692	186 187	31	1185
Gates, Waldo L., Bayonne, N. J., assignor, by mesne assignments, to Electric Automatic Instructor Company, Portland, Me. Automatic instructor	319,924	June 2	349	94	31	1113
Gates, William H., Jeann, Iowa. Fence-post	322,172	July 14	1042	270	32	168
Gath, Charles W., Hamilton, Ohio. Device for embalming	315,272	Apr. 7	406	101	31	73
Gathmann, Louis. (See Ryer, Benjamin F., assignor.)						
Gathmann, Louis, Chicago, Ill. Vertical centrifugal bolt or separator	319,574	June 9	818	217 218	31	1208
Gathmann, Louis, Chicago, Ill. Upright centrifugal flour-bolt	319,695	June 9	976	259	31	1237
Gathmann, Louis, Chicago, Ill. Combined conveyor and separator	319,699	June 9	1143	302	31	1206
Gathmann, Louis, Chicago, Ill. Grinding-mill for reducing grain, &c.	320,729	Nov. 3	409	105	33	583
Gathright, John R., Jeffersonville, Ind. Combined grain and oil car	313,932	Mar. 17	1238	292	30	1093
Gathright, John R., Jeffersonville, Ind. Fluid-car	320,775	June 23	2483	657	31	1236
Gathright, Josiah B., Louisville, Ky. Automatic car-brake	323,659	Aug. 4	368	105	32	501
Gathright, Josiah B., Louisville, Ky. Trace-carrier for harness	325,831	Sept. 8	829	207	32	1174
Gatling, Richard J., Hartford, Conn. Breech-loading ordnance	311,973	Feb. 10	699	192	30	485
Gatling, Richard J., Hartford, Conn. Loading device for breech-loading guns	311,974	Feb. 10	702	192	30	486

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Gatti, John L. (See Lott, Adrian T., assignor.)						
Gaukroger, Albert. (See Watson and Gaukroger.)						
Gaulard, Lucien, and J. D. Gibbs, 18 Warwick Street, Regent Street, county of Middlesex, England. Coil for induction or other electrical apparatus.	316,354	Apr. 21	1885	499	31	354
Gaunt, Thomas, Cold Spring, N. Y. Bone-black discharger for continuous filters.	329,305	Oct. 27	2433	530	33	465
Gaunt, Thomas, Cold Spring, N. Y. Bone-black filter for filtering saccharine liquids.	329,306	Oct. 27	2424	631	32	465
Gavin, William, Webb City, Mo. Mop-wringer.	325,528	Sept. 1	424	103	32	1097
Gavitt, James K. G., Philadelphia, Pa. Electric fire-arm.	332,071	Dec. 8	1223	319	33	1226
Gawne, O. M. (See Thayer, Charles G., assignor.)						
Gay, David G., Pleasant Hill, Oreg. Trace or harness buckle.	316,256	Apr. 21	1760	463	31	332
Gay, Paulin, Paris, France. Machine for sawing stone.	311,741	Feb. 3	362	100	30	417
Gay, William A., Newark, N. J. Preparing articles for plating purposes.	321,711	July 7	402		32	75
Gaylord, Edward L., Bridgeport, Conn. Device for locking joints.	313,183	Mar. 3	229	57	30	819
Gaylord, Edward L., Bridgeport, Conn. Device for locking joints.	313,194	Mar. 3	230	57	30	819
Gaylord, Edward L., Bridgeport, Conn. Plane for picture-moldings.	313,195	Mar. 3	231	58	30	819
Gaylord, Edward L., Bridgeport, Conn. Tool for beveling and finishing the edges of wooden picture-mats.	313,196	Mar. 3	232	58	30	819
Gaylord, Edward L., Bridgeport, Conn. Mat-gage for picture-frames.	313,197	Mar. 3	232	58	30	819
Gaylord, Edward L., Bridgeport, Conn. Machine for preparing miter-joints for fastenings.	313,198	Mar. 3	233	58, 59	30	820
Gaylord, Edward L., Bridgeport, Conn. Folding chair.	330,222	Nov. 10	1071	280	33	717
Gaylord, Edward L., Bridgeport, Conn. Folding chair.	330,223	Nov. 10	1072	281	33	717
Gaylord, Edward L., Bridgeport, Conn. Folding chair.	330,224	Nov. 10	1074	282	33	717
Gaylord, Edward L., Bridgeport, Conn. Folding chair.	330,225	Nov. 10	1075	283	33	718
Gazette, Frank L., et al. (See Nutting, Adrain, assignor.)						
Gearing, Charles M., assignor of one-half to J. R. McKee, Jr., Pittsburg, Pa. Liquid-fuel furnace.	316,890	Apr. 28	2645	690	31	499
Gearing, Charles M., assignor of one-half to J. R. McKee, Jr., Pittsburg, Pa. Manufacturing illuminating-gas.	323,660	Aug. 4	369	105	32	591
Geary, John, Philadelphia, Pa. Electric gas-lighter.	314,119	Mar. 17	1474	384	30	1068
Geary, John, Philadelphia, Pa. Electrical push-button.	320,238	June 16	1731	450	31	1379
Geary, John, Philadelphia, Pa. Electric gas-lighter.	320,630	Dec. 1	589	145	33	1100
Geary, Peter. (See Barnard and Geary.)						
Geber, Moritz, Berlin, Germany. Parabolic railway and car, &c.	322,594	July 21	1600	423	32	306
Gebhard, John A., and R. N. Barlow, Detroit, Mich. Duplicating counter-check book.	314,662	Mar. 31	2196	583	30	1236
Gedje, Burton H., and H. Meyerer, assignors to American Wire Nail Company, Covington, Ky. Nail-machine.	325,070	Sept. 8	604	153	32	1134
Gee, Charles E., Lowell, Mass. Shaft-coupling.	318,975	June 2	63	16	31	1009
Gee, William, assignor of one-half to A. E. Hendrick, New York, N. Y. Chemical fire-extinguisher.	315,610	Apr. 14	884	232	31	164
Geer, Charles W., Bethel, Conn. Culinary boiler.	316,257	Apr. 21	1761	463	31	332
Geer, Henry J., Attleborough, Mass. Collar-button.	314,626	Mar. 31	2436	643	30	1281
Gehman, Abraham A., Newton, Kans. Incubator.	321,712	July 7	403	107	32	75
Gehrecks, Carl O., Hamburg, Germany. Driving-belt.	324,993	Aug. 25	2177	585	32	949
Gebrig, Josef K. (See Prinz, Faustin, assignor.) (Reissue.)						
Geib, David W. (See Michael and Geib.)						
Geier, John L., assignor to H. Rendtorff, Chicago, Ill. Apparatus for crystallizing tin-plate.	322,056	July 14	889	230	32	170
Geiger, Charles A., and B. Beale, assignors to Springfield Machine Company, Springfield, Ohio. Wind-motor.	324,020	Aug. 11	829	229	32	625
Geiger, Henry, Fox Lake, Wis. Wagon-rack.	318,100	May 19	1571	421	31	528
Geise, Henry, Philadelphia, Pa. Barber's chair.	323,661	Aug. 4	370	105	32	591
Geise, O. N. (See Gibson, William B., assignor.)						
Geisler, Frank P., et al. (See Orr and Seivard, assignors.)						
Geisler, Robert, Leipsic, Germany. Umbrella.	330,010	Nov. 10	798	204	33	660
Geiss, Adolph, Chicago, Ill. Lamp.	329,697	Nov. 10	645	164	33	632
Geissenhainer, Charles A. (See Geissenhainer, George W. and C. A.)						
Geissenhainer, George W., Pittsburg, Pa. Fire-place blower.	332,072	Dec. 8	1224	330	33	1226
Geissenhainer, George W. and C. A., Pittsburg, Pa. Wood-worker's bench-vise.	317,760	May 12	1110	292	31	734
Gellinas, Zephirin M., Yamachiche, Quebec, Canada, assignor of one-third to O. Chamberlain, Enfield Centre, N. H. Washing-machine.	314,372	Mar. 24	1805	480	30	1139
Gemmell, John B., Red Bluff, Cal. Harvester.	329,158	Oct. 27	2223	575	33	425
Gendron Iron Wheel Company. (See Gendron, Peter, assignor.)						
Gendron, Peter, Toledo, Ohio. Car-wheel.	322,276	July 14	1163	305	32	221
Gendron, Peter, assignor to Gendron Iron Wheel Company, Toledo, Ohio. Wheelbarrow.	322,277	July 14	1164	305	32	221
Genese, David, Baltimore, Md. Dental appliance for mixing amalgam.	330,011	Nov. 10	799	205	33	661
Genin, John B., assignor to E. H. Towne, N. P. Hunt, and G. M. Woodward, Worcester, Mass. Hose-coupling.	333,066	Dec. 22	2620	687	33	1487
Gent, Joseph F., Columbus, Ind. Flake-rice.	312,265	Feb. 17	1100		30	568
Gent, Joseph F., Columbus, Ind. Apparatus for washing.	313,070	Mar. 3	43	11	30	786
Genung, Charles C. (See Curtner and Genung.)						
George, Alexander. (See Ivett and George.)						
George, Frank, Regents Park, county of Middlesex, England. Connection for lead and other like pipes.	326,425	Sept. 15	1809	418	32	1327
George, James A., assignor of one-half to T. Harrington, Southbridge, Mass. Implement for straightening axles.	327,787	Oct. 6	365	95	33	64
George, Nathan M. (See Holmes and George.)						
George, Nathan M., Danbury, Conn. Car-axle lubricator.	322,278	July 14	1165	305	32	222
Georges, John J., Washington, D. C. Cushion for the feet.	326,728	Sept. 22	2042	531	32	1412
Georgi, Martha, et al. (See Georgi, Rudolf, assignor.)						
Georgi, Rudolf, New York, assignor to G. H. Lages and M. Georgi, Brooklyn, N. Y. Artificial flower.	322,367	July 14	1226	336	32	244
Geraghty, Frank. (See Zack and Geraghty.)						
Gerald, Amos F., Fairfield, Me. Sewing-machine cabinet.	322,279	July 14	1167	306	32	222
Geralda, Du Bois F., Clintondale, N. Y. Refrigerator-house.	333,407	Dec. 29	3097	807	33	1577
Geran, Josiah P., assignor to himself and G. Bergen, Brooklyn, N. Y. Stop attachment for roller-skates.	322,173	July 14	1044	271	32	198
Gerber, Charles, York, Pa. Caramel-cutter.	318,101	May 19	1572	421	31	229
Gerber, John J. (See Arnold and Gerber.)						
Gerber, Nicholas, Little Falls, N. Y. Milk-can.	311,975	Feb. 10	703	183	30	426

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Gerbracht, Ernest W. (See Gerbracht, Eugene A. and E. W.)						
Gerbracht, Ernest W., Brooklyn, and E. A. Gerbracht, New York, N. Y. Child's carriage.	314,328	Mar. 24	1749	466	30	1127
Gerbracht, Eugene A., New York, and E. W. Gerbracht, Brooklyn, N. Y. Child's carriage.	314,327	Mar. 24	1748	466	30	1127
Gerdorn, Andrew H. (See Strasser and Gerdorn.)						
Gerdorn, Andrew H., Albany, N. Y. Curtain-supporter	321,892	July 7	602	173	32	121
Gerdorn, Andrew H., assignor of one-half to D. Strasser, Albany, N. Y. Bottom bar for window-shades	316,771	Apr. 28	2481	647	31	469
Gerdorn, Gregory, West Troy, N. Y. Oil-can	323,928	Aug. 11	706	198	32	664
Gerdorn, Gregory, West Troy, assignor of one-half to J. H. Reynolds, Troy, N. Y. Combined shaft and pulley bearing	312,561	Feb. 17	1518	413	30	646
Gerdum, Albert, Cleveland, Ohio. Counter-scale	320,776	June 23	2484	658	31	1526
Gere, R. Nelson. (See Farmer, David J., assignor.)						
Gerhard, Charles, New York, N. Y. Composition for Bengal lights	323,662	Aug. 4	371		32	592
Gerhard, Charles, assignor to Unexcelled Fireworks Company, New York, N. Y. Bengal-light book	329,307	Oct. 27	2437	632	33	466
Gerhard, William, Philadelphia, Pa. Chain-link	310,267	Jan. 6	142	40	30	28
Gerhardt, John, assignor to S. Davis, Montreal, Quebec, Canada. Car-truck	324,831	Aug. 25	1953	536	32	909
Germantown Tool Works. (See Selsor, George, assignor.)						
Germond, Gilbert A., New York, N. Y. Fastening for freight-car doors	320,229	June 16	1732	459	31	1379
Gerner, Richard, Port Clinton, Ohio. Bolster-stake for vehicles	313,199	Mar. 3	236	80	30	520
Gerner, Jeremiah M. M., Muncy, Pa. Spring bed-bottom	326,555	Sept. 29	1769	463	32	1365
Gerrard, Frank S., Scranton, Pa. Car-brake	323,507	Aug. 4	163	48	32	553
Gerrard, William R. (See Desmond, John, assignor.)						
Gerrish, John J. (See Liddback, John A., assignor.)						
Gerry, James H., Brooklyn, N. Y. Wire-feeding machine	332,889	Dec. 22	2376	628	33	1442
Gervien, William. (See Scott, John R., assignor.)						
Gervien, William, assignor of one-half to J. K. Scott, Chicago, Ill. Sliding-door lock	315,761	Apr. 14	1095	287	31	205
Gesellschaft für Stahlindustrie. (See Koehler, Heinrich, assignor.)						
Geisford, Preston G., Jr., Napa, Cal. Device for adjusting and removing nuts	317,637	May 12	951	244	31	704
Geisley, Sabar, Balist, Wis. Sulky-plow	316,959	May 5	39	11	31	530
Geiser, Sylvester, Jr., and J. F. Stevens, North Tarrytown, N. Y. Running-gear for vehicles	311,654	Feb. 3	257	71	30	397
Geisler, John M., and J. McAfee, Philadelphia, Pa. Carpet-cleaning machine	329,107	Nov. 10	928	241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	33	669
Gessner, Ernst, Aue, Saxony, Germany. Feeding device for carding-machines	312,456	Feb. 17	1367	377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	30	619
Gessner, Friedrich, Magdeburg, Prussia, Germany. Accordion	318,249	May 19	1755	469	31	863
Gessner, George, Cumberland, Md. Heating apparatus	316,779	Apr. 28	2482	648	31	469
Gestetner, David, London, England. Transfer or reproducing paper	332,890	Dec. 22	2379	629	33	1443
Getrost, G. W., et al. (See Balch, Andrew J., assignor.)						
Getty, Fred I., and F. Dickinson, Geneva, Ohio. Adjusting device for machinists' tools	314,663	Mar. 31	2197	583	30	1236
Gets, P. Charles, Philadelphia, Pa. Gossamer-cloak	313,313	Mar. 3	405	100	30	850
Getzechmann, Amanda, Omaha, Neb. Shaft-holder	328,209	Oct. 13	909	826	33	173
Geyelin, Enrie C., Philadelphia, Pa. Gate for turbine wheels	331,051	Nov. 24	2143	581	33	937
Geyer, Adam J., Jr., Rahway, N. J. Automatic tap	325,072	Aug. 25	2274	625	32	968
Ghiselin, Richard, Webster Groves, Mo. Blind-hinge	326,729	Sept. 2	2043	532	32	1412
Giant Powder Company. (See Hardy, Orlando B., assignor.)						
Gibbons, William H., Watson, N. Y. Ox-yoke	331,631	Dec. 1	591	146	33	1101
Gibbins, Joseph P., 4 Osborne Terrace, Coombe Farm Lane, Westcombe Park, county of Kent, assignor to L. Clark Muirhead & Company, (limited), 23 Regency Street, Westminster, England. Testing and firing apparatus for submarine mines	330,226	Nov. 10	1076	283 284	33	718
Gibbins, Joseph P., 4 Osborne Terrace, Coombe Farm Lane, Westcombe Park, county of Kent, assignor to L. Clark Muirhead & Company, (limited), 23 Regency Street, Westminster, England. Case for submarine mines	330,227	Nov. 10	1077	284	33	718
Gibben, Thomas H., Albany, N. Y. Construction of railway-tracks	317,968	May 19	1425	382	31	802
Gibben, Thomas H., Albany, N. Y. Construction of railway-tracks	320,869	June 23	2482	629	31	1548
Gibbons, Gabriel J., Haven, Kan. Automatic grain-weigher	324,373	Aug. 18	1322	360	32	784
Gibbons, John. (See Meneely and Gibbons.)						
Gibbons, John, assignor to Meneely Hardware Company, West Troy, N. Y. Oilier for car-axes	311,071	Jan. 20	1194	328	30	235
Gibbons, John, assignor to Meneely Hardware Company, West Troy, N. Y. Wrench	311,892	Feb. 10	581	159	30	464
Gibbons, John, assignor to Meneely Hardware Company, West Troy, N. Y. Car-axle oilier	311,893	Feb. 10	582	159 160	30	464
Gibbons, John, assignor to Meneely Hardware Company, West Troy, N. Y. Bicycle	313,490	Mar. 10	697	183	30	909
Gibbons, John, assignor to Meneely Hardware Company, West Troy, N. Y. Harness-snap	322,438	July 21	1380	362	32	262
Gibbons, John, assignor to Meneely Hardware Company, West Troy, N. Y. Car-axle oilier	322,730	Nov. 3	410	106	33	583
Gibbons, John, West Troy, N. Y., assignor to Meneely Hardware Company. Car-axle oilier. (Belasse)	10,644	Sept. 8	1158	294	32	1225
Gibbons, John R., and M. L. Flowers, Rome, Ga. Combined pulverizer, harrow, and cultivator	336,689	Nov. 17	1680	453 454	33	843
Gibbons, Robert E. (See Mauring and Gibbons.)						
Gibbons, Thomas, St. Louis, Mo. Saw-setting device	318,976	June 2	64	16	31	1060
Gibbe, Callie F., et al. (See Just, John A., assignor.)						
Gibbe, H. A., et al. (See Brozman, Cornelius J., assignor.)						
Gibbe, Henry W. (See Howard and Gibbe.)						
Gibbe, John, Brooklyn, N. Y. Horse-shoe's box	322,213	Dec. 29	2234	742	33	1530
Gibbe, John D. (See Gaulard and Gibbe.)						
Gibbe, Josiah H., et al. (See Herrick, Lewis W., assignor.)						
Gibbe, Lewis, Canton, Ohio. Lawn-rake	314,373	Mar. 24	1806	480	30	1139
Gibbe, Lewis, Canton, Ohio. Lawn-rake	324,374	Aug. 18	1322	360	32	784
Gibbe, Lewis, Canton, Ohio. Plow-clevis and link	326,210	Sept. 15	1327	344	32	1274
Gibbe, Lewis, assignor to Bucher, Gibbs & Co., Canton						

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Gibson, Alexander C., Chicago, Ill. Burglar-alarm.....	315,138	Apr. 7	197	48, 49	31	36
Gibson, Charles, assignor to himself and North Western Fertilising Company, Chicago, Ill. Making a fertiliser from tank-waters.....	394,103	Aug. 11	940		32	705
Gibson, Charles D. P., Jersey City, N. J., assignor to A. & W. S. Carr Company, New York, N. Y. Portable heating apparatus.....	330,648	June 23	2330	{ 815 816 }	31	1495
Gibson, Edward J. (See Comstock and Gibson.)						
Gibson, George, Pittsburg, Pa. Decorticating-machine.....	313,637	Feb. 24	1880	{ 515 516 }	30	721
Gibson, Gideon, Union township, Union county, Iowa. Gate.....	310,408	Jan. 6	325	89	30	63
Gibson, J. Howard, Philadelphia, Pa. Tool-holder.....	318,718	May 26	2391	637	31	988
Gibson, Jacob F., Red Lion, Pa. Carriage-lamp and foot-warmer.....	321,713	July 7	405	108	32	76
Gibson, James G., Peoria, Ill. Check-rower.....	315,494	Apr. 14	716	189	31	134
Gibson, Lyman B., Addison, assignor of one-half to P. Evans, Campbell, N. Y. Weighing and price scale.....	330,690	Nov. 17	1681	454	33	843
Gibson, Murray, Philadelphia, Pa. Decorating walls and ceilings.....	333,459	Dec. 29	8167	897	33	1588
Gibson, Robert. (See Johnson, Charles H., assignor.)						
Gibson, Robert F., Zanesville, Ohio. Cash-carrier.....	320,777	June 23	2486	658	31	1596
Gibson, Selden F., assignor of part to W. H. Stevens and W. F. Lunt, Portland, Me. Advertising-mat.....	321,431	July 7	94	6	33	7
Gibson, William B., Smithville, assignor of one-half to O. N. Geise, Terrill County, Ga. Seed-planter.....	323,413	Aug. 4	41	10	32	530
Giddings, Charles M., Massillon, Ohio. Slide-valve.....	314,120	Mar. 17	1475	384	30	1068
Giddings, Charles M., Massillon, Ohio. Reversing-gear.....	315,762	Apr. 14	1096	{ 287 288 }	31	905
Giddings, Charles M., Massillon, Ohio. Governor.....	319,696	June 9	979	259	31	1237
Giddings, Charles M., Massillon, Ohio. Steam-boiler.....	321,015	June 30	2806	746	31	1592
Giddings, Charles M., Massillon, Ohio. Separator for steam-boilers.....	321,016	June 30	2806	746	31	1592
Giddings, Charles M., Massillon, Ohio. Wheel for traction-engines.....	326,109	Sept. 15	1177	301	32	1947
Giddings, Charles M., Massillon, Ohio. Traction-engine.....	330,576	Nov. 17	1537	411	33	814
Gideon, Henry S., Crescent City, Iowa. Bee-hive.....	317,112	May 5	236	59	31	567
Gideon, Henry S. and V. M., Crescent City, Iowa. Ore-separating machine.....	324,550	Aug. 18	1553	429	32	827
Gideon, Valentine M. (See Gideon, Henry S. and V. M.)						
Gidley, Jennie D., New York, N. Y. Undergarment.....	326,639	Sept. 22	1899	495	32	1385
Gidley, Michael. (See Johnson, Joseph W., assignor.)						
Gidley, Robert, Washington, N. Y. Endless-chain-railway curve.....	328,210	Oct. 13	910	236	33	173
Giebertmann, Rudolph, Chicago, Ill. Apparatus for distilling glycerine.....	319,971	June 16	1376	361	31	1315
Giesler, Franklin B., Milwaukee, Wis. Smoke-consuming furnace.....	313,071	Mar. 3	44	12	30	786
Giesler, Franklin B., Milwaukee, Wis. assignor of one-half to A. Logemann. Smoke-consuming furnace. (Reissue).....	10,639	Aug. 25	2479	681	32	1007
Giffard, George W., assignor of one-half to O. B. Wilson, Great Bend, Kans. Snap-hook.....	311,427	Jan. 27	1710	465	30	334
Giffard, George W., assignor of two-thirds to O. B. Wilson and Moses Bros., Great Bend, Kans. Snap-hook.....	319,972	June 16	1377	361	31	1315
Giffard, George W. and J. L. Roberts, assignors of one-half to C. L. and E. W. Moses, Great Bend, Kans. Lifting-jack.....	315,611	Apr. 14	886	233	31	165
Gifford, Alenza T. (See French and Gifford.)						
Gifford, Alenza T., Hopedale, Mass. Milling-machine.....	320,391	Nov. 17	1307	347	33	770
Gifford, Benjamin J. and J. E. Jones, Rantoul, Ill. Apparatus for cleaning, widening, and deepening water-courses.....	321,355	June 30	3235	{ 862 863 864 }	31	1671
Gifford, Charles, et al. (See Burnham, Arthur M., assignor.)						
Gifford, Ezra N., assignor to himself, W. and J. R. McLean, Cincinnati, Ohio. Car-coupling.....	326,285	Sept. 15	1498	372	32	1892
Gifford, Thomas, Columbus, N. J. Combined planter, coverer, and marker.....	318,777	June 2	66	17	31	1060
Gifford, Watson H., Fort Hamilton, N. Y. Apparatus for holding and shifting stage scenery.....	325,927	Sept. 8	936	237	32	1196
Gifford, William H., Cincinnati, Ohio. Button.....	324,532	Aug. 25	1956	537	32	909
Gilardini, Giovanni, Turin, Italy. Umbrella.....	319,325	June 2	352	94	31	1114
Gilberts, James, Jamestown, N. Y. Fruit-jar cover.....	328,116	Oct. 13	794	207	33	150
Gilbert, Andrew J. and G. Wendling, Norwalk, Conn. Portable oven.....	317,938	May 12	1347	362	31	779
Gilbert, Charles H., Andover, Mass. Dental-engine holder.....	318,177	May 19	1670	448	31	847
Gilbert, Charles W. (See Bergan, John A., assignor.)						
Gilbert Clock Company, William L. (See Lane, Almeron M., assignor.)						
Gilbert, Edwin, Georgetown, Conn. Manufacture of galvanized-wire cloth.....	316,615	Apr. 28	2244	581	31	426
Gilbert, Jabez C. (See Huston, William, assignor.)						
Gilbert, Jabez H., Big Sandy, Tenn. Device for watering stock.....	313,317	Mar. 3	405	101	30	851
Gilbert, James M., Putney, Vt. Polishing mechanism for turning-lathes.....	330,890	Nov. 24	1947	527	33	899
Gilbert, Leander G., Buffalo, N. Y. Combined stop and check valve.....	315,373	Apr. 7	407	101	31	73
Gilbert, Orvellas H., Newark, N. J. Latch.....	327,157	Sept. 29	2631	694	32	1523
Gilbert, Selden, New Haven, Conn. Carriage-spring.....	320,926	June 30	2687	713	31	1570
Gilbert, Thomas S., assignor to I. Rosenberg & Co., New Haven, Conn. Corset.....	317,335	May 5	558	142	31	625
Gilbert, Thomas S., assignor to Mayer, Strouse, & Co., New Haven, Conn. Machine for shaping corsets.....	331,701	Dec. 1	686	{ 169 170 }	33	1119
Gilbert, Thomas S., New Haven, Conn., assignor to A. R. Colton, New York, N. Y. Corset.....	332,245	Dec. 15	1477	386	33	1376
Gilbert, William H., Philadelphia, Pa. Button-hole attachment for sewing-machines.....	332,511	Dec. 15	1887	482	33	1539
Gilburg, John. (See Strand and Gilburg.)						
Gilchrist, Daniel J., Newark, N. J. Earth and coal loader.....	317,761	May 12	1111	283	31	734
Gilchrist, Daniel J., Newark, N. J. Slicer.....	322,175	July 14	1046	271	32	196
Gilchrist, Duncan, Ishpeming, Mich., assignor of one-half to Marinette Iron Works Company, Marinette, Wis. Hoisting apparatus.....	310,667	Jan. 13	648	{ 178 179 }	30	129
Gilchrist, John T., Knobel, Ark. Car-coupling.....	312,345	Feb. 17	1223	336	30	591
Gilchrist, Percy C. (See Murisier and Gilchrist.)						
Gilchrist, Percy C., London, and L. G. Fitzmaurice, Bilston, county of Stafford, England. Apparatus for mounting and dismantling Bessemer converters.....	316,537	Apr. 28	2146	564	31	406
Gile, Henry E. (See Sly and Gile.)						
Gile, William H. (See Folger, Rowland, assignor.)						
Giles, Albion P. (See Loring and Giles.)						
Giles, Charles K. (See Fenner, Richard E., assignor.)						
Giles, Charles K., Chicago, Ill. Anti-magnetic watch-case.....	312,458	Feb. 17	1371	378	30	619
Giles, Charles K., Chicago, Ill. Dust-proof case for watches.....	320,127	June 16	1580	490	31	1353
Giles, Charles K., Chicago, Ill. Watch-case.....	330,228	Nov. 10	1078	285	33	719
Giles, Charles K., Chicago, Ill. Watch-case.....	330,229	Nov. 10	1079	285	33	719
Giles, Edwin L. (See Lamson and Giles.)						
Giles, Edwin L., Lowell, Mass. Track-switch.....	321,356	June 30	3239	864	31	1672

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Giles, Edwin L., Lowell, Mass. Switch for store-service apparatus.....	332,339	Dec. 15	1603	421	33	1299
Giles, Edwin L., assignor to Lamson Cash Railway Company, Lowell, Mass. Switch for store-service apparatus.....	310,815	Jan. 13	835	226	30	163
Giles, George T. (See Lavery, Dominick D., assignor.)						
Giles, Harvey A., Iowa. Car-coupling.....	331,126	Nov. 24	2253	612	33	956
Giles, Joel E., Jackson, Mich. Grain-binder.....	322,439	July 21	1381	362	32	268
Giles, Julian A., Cortland, N. Y. Work-holding chuck.....	323,414	Aug. 4	42	11	32	531
Gillfillan, Eslington N., Fort Scott, Kans., and W. J. Gillfillan, St. Louis, Mo. Door and terrace step.....	314,374	Mar. 24	1807	480	30	1139
Gillfillan, William, assignor to Sargent & Co., New Haven, Conn. Spring-hinge.....	810,409	Jan. 6	325	89	30	63
Gillfillan, William, assignor to Sargent & Co., New Haven, Conn. Door-spring.....	311,307	Jan. 27	1542	419	30	303
Gillfillan, William, assignor to Sargent & Co., New Haven, Conn. Pneumatic door-check.....	311,742	Feb. 3	363	100	30	417
Gillfillan, William J. (See Gillfillan, Eslington N. and W. J.)						
Giljohan, R. C., et al. (See Bolte, Frank H., assignor.)						
Gilkey, John W. (See Sherwood, James A., assignor.)						
Gill, Albert L., Allentown, N. J. Potato-planter.....	333,460	Dec. 29	8168	896	33	1569
Gill, Asher B., Philadelphia, Pa. Check-receiver.....	324,677	Aug. 18	1740	479	32	961
Gill, Edwin R., Jr., assignor of one-half to J. T. Russell, W. A. Symington, and J. M. Chaney, Pleasant Hill, Mo. Automatic electric signal-controlling apparatus.....	313,720	Mar. 10	919	239	30	958
Gill, George C., Brooklyn, assignor to R. Hoe & Co., New York, N. Y. Printing-machine.....	311,976	Feb. 10	704	193	30	486
Gill, James C., Boston, assignor of one-half to J. M. French, Chelsea, Mass. Device for controlling horses.....	329,448	Nov. 3	96	8	33	510
Gill, James R., Bellota, Cal. Gang-plow.....	326,969	Sept. 29	2380	622	32	1479
Gill, John, Orange, N. J. Machine for forming hat-bodies.....	311,626	Feb. 3	469	127	30	437
Gill, Napoleon, assignor of one-third to T. W. Mann, Holyoke, Mass. Cutting-pliers.....	316,452	Apr. 28	2044	536	31	388
Gill, Webster, Camden, N. J. Condenser for carding-machines.....	320,778	June 23	2487	638	31	1526
Gill, William, Toronto, Ontario, Canada. Car-brake.....	321,432	July 7	24	6.7	32	8
Gill, William A., Columbus, Ohio. Dinner-pail.....	317,762	May 12	1119	293	31	734
Gill, William T., Ottaville, Mo. Curry-comb.....	316,138	Apr. 21	1615	422	31	306
Gilleland, John H. (See Bryant and Gilleland.)						
Gilles, Peter, and M. Link, Kenosha, Wis. Vehicle-hub.....	310,576	Jan. 13	536	147	30	108
Gillespie, Alfred J., Atlantic, Iowa. Harrow-tooth holder.....	328,211	Oct. 13	911	237	33	173
Gillespie, Cyrus E., Edwardsville, Ill. Ear-muff.....	316,029	Apr. 21	1456	380	31	277
Gillespie, James, Lincoln, Ill. Washing-machine.....	313,318	Mar. 3	406	101	30	851
Gillespie, James, Springfield, Ill. Nut-bar.....	314,329	Mar. 24	1750	466	30	1128
Gillespie, Joseph U., Belmont, Ala. Cultivator.....	318,178	May 19	1671	448	31	248
Gillespy, John H., et al. (See Cooley, Earl K., assignor.)						
Gillet, Webster, New York, N. Y., assignor to Atlantic and Pacific Telephone Company, Saco, Me. Telephone.....	331,052	Nov. 24	2144	581	33	937
Gillette, George H., New York, N. Y. Keg or barrel.....	330,012	Nov. 10	800	205	33	661
Gillette, George W., New York, N. Y. Vent.....	327,674	Oct. 6	239	58	32	42
Gillham, Robert, Kansas City, Mo. Carrying-pulley for cable railways.....	312,624	Feb. 24	1591	436	30	669
Gillham, Robert, Kansas City, Mo. Mold for concrete tubes for cable railways.....	330,013	Nov. 10	802	205	33	661
Gillham, Algernon, Canton, Ohio. Harness-saddle tree.....	330,313	Nov. 10	1187	317	33	740
Gillham, Algernon, Canton, Ohio. Harness-saddle.....	332,340	Dec. 15	1605	421	33	1299
Gillick, Peter, assignor to O. C. Ebert, Southington, Conn. Die for forging carriage-shackle blanks.....	325,073	Aug. 25	2275	625	32	909
Gilliland, Ezra T., Boston, Mass. Electric train-signaling.....	318,102	May 19	1574	422	31	829
Gilliland, Ezra T., Boston, Mass. Electrical contact-point.....	324,678	Aug. 18	1741	479	32	862
Gilliland, Ezra T., Boston, Mass. Junction between cabled and uncabled conductors.....	327,080	Sept. 29	2519	657	32	1504
Gilliland, Ezra T., assignor to American Bell Telephone Company, Boston, Mass. Suspension of aerial cables.....	310,938	Jan. 20	1007	272	30	199
Gilliland, James F., Indianapolis, Ind. Memorandum-holder for telephone-boxes.....	311,977	Feb. 10	707	194	30	486
Gilliland, James F., Indianapolis, Ind. Adjusting armature-springs.....	315,017	Apr. 7	42	9	31	9
Gilliland, James F., Indianapolis, Ind. Telegraphic sounder.....	315,763	Apr. 14	1097	288	31	205
Gilliland, James F., Indianapolis, Ind. Combined washer and linchpin.....	320,058	June 16	1491	393	31	136
Gilliland, James F., Indianapolis, Ind. Combined washer and linchpin.....	320,059	June 16	1492	394	31	1336
Gilliland, James F., Indianapolis, Ind. Armature for electro-magnets.....	323,663	Aug. 4	371	105	32	592
Gilliland, James F., assignor to J. B. Bennett, Indianapolis, Ind. Line-wire for mechanical telephones.....	327,940	Oct. 6	563	146	33	101
Gilliland Manufacturing Company. (See Thompson, John H., assignor.)						
Gilliland, Wilson H. (See Lore, George W., assignor.)						
Gillingham, Henry B. (See Heinzer and Gillingham.)						
Gillman, Alexander W., and S. Spencer, Southwark, county of Surrey, England. Preparing flaked cereals.....	332,073	Dec. 8	1225	.....	33	1226
Gillman, William C., Milford, Mass. Boot or shoe.....	320,468	June 23	2095	552	31	1452
Gillmore, Freeman C. (See Wagner, Peter, assignor.)						
Gillgoly, Samuel, Keifer, assignor of one-half to A. Lynn, Blue Rock, Ohio. Sheep-rack.....	320,649	June 23	2332	616	31	1495
Gilman, Charles A., Lynn, Mass., assignor to New Enterprise Edge Trimmer Company, Portland, Me. Cutter-head for boot and shoe edge trimming machines.....	321,357	June 30	3240	864	31	1672
Gilman, Charles C., Eldora, Iowa. Boiler-covering.....	328,581	Oct. 30	1408	366	33	271
Gilman, Charles C., Eldora, Iowa. Fire-proof safe and vault.....	332,246	Dec. 15	1478	356	33	1276
Gilman, Charles C., Eldora, Iowa. Fire-proof vault.....	332,247	Dec. 15	1480	386	33	1276
Gilman, Edward, Oakland, Cal. Windmill.....	330,014	Nov. 10	803	205	33	661
Gilman, Frederick J., Cote des Neiges, Quebec, Canada. Damper for stove-pipes and flues.....	314,121	Mar. 17	1477	385	30	1068
Gilman, John H. (See King and Gilman.)						
Gilman, John H., Ottawa, Ill. Cylinder for corn-shellers.....	325,671	Sept. 8	606	153	32	1135
Gilman, John W. C., Reading, Mass. Copy-book.....	321,594	July 7	255	68	32	49
Gilman, Willard H., Boston, Mass. Cash and parcel transmitting apparatus for store-service.....	318,719	May 26	2392	638	31	988
Gilmer, George O., Clarksville, Tenn. Rotary shears.....	322,440	July 21	1385	363	32	269
Gilmer, Joseph, assignor to W. R. Kline and E. R. Mitchell, Brunswick, Ga. Car-coupling.....	313,200	Mar. 3	237	60	30	821
Gilmore, Albert, Gilmore, Ohio. Seeder.....	315,931	Apr. 14	1326	345	31	246
Gilmore, Horace E., assignor of one-half to J. S. Mackey, Spring Hill, Kans. Sash-lock.....	320,551	June 23	2203	581	31	1471
Gilmore, Othniel, North Raynham, Mass. Channel-flap layer.....	310,668	Jan. 13	651	179	30	129
Gilmore, Othniel, North Raynham, Mass. Channel-flap-laying machine.....	327,061	Sept. 29	2521	657	32	1504
Gilmore, Richard N., Camden, Ky. Violin-bow.....	323,139	Jan. 28	2354	624	32	453
Gilmore, Robert J., Providence, R. I. Ring-traveler machine.....	310,577	Jan. 13	537	147	30	106

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Gilmore, Robert J., Providence, R. I. Machine for attaching buttons	310,578	Jan. 13	539	148	30	109
Gilmore, Steele F., assignor of one-half to S. Ward, Princeton, Ind. Window-screen	325,529	Sept. 1	425	105	32	1097
Gilson, James, and J. W. Honston, Providence, R. I. Sand-box for street-cars	319,697	June 9	980	259	31	1238
Ginger, James S., St. Louis, Mo. Combined breast-strap buckle and snap	318,179	May 19	1672	448	31	848
Gingerick, Austin D., near North Manchester, Ind. Wagon-body	336,970	Sept. 29	2381	623	32	1480
Gingras, Timothy, Buffalo, N. Y. Leather washer	332,923	July 28	2053	542	32	396
Gingras, Timothy, Buffalo, N. Y. Leather washer	331,293	Dec. 1	53	13	33	1069
Gingrich, Daniel, Overpeck, Ohio. Harvester-reel	330,927	June 30	2688	713	31	1570
Ginter, William P., assignor of two-thirds to J. K. Boak and W. Strouse, Hughesville, Pa. Brad-driver	312,199	Feb. 10	1011	275	30	543
Girard, Charles L. (See Fréchette and Girard.)						
Girard, Hyacinth, Dubuque, Iowa. Incrustation-preventive	310,410	Jan. 6	327		30	64
Girouard, David, Spencer, Mass. Baker's oven	329,898	Nov. 10	646	165	33	633
Githens, George M., Brooklyn, N. Y. Tripod for rock-drills. (Reissue)	10,579	Mar. 17	1589	420	30	1029
Githens, George M., Brooklyn, N. Y. Friction-clutch for rock-drills	317,113	May 5	237	60	31	567
Githens, Joseph C., assignor to Rand Drill Company, New York, N. Y. Rotating feed for steam rock-drills	312,346	Feb. 17	1224	337	30	591
Githens, Joseph C., assignor to Rand Drill Company, New York, N. Y. Rotatory feed for steam rock-drills	312,347	Feb. 17	1925	337	30	591
Githens, Joseph C., assignor to Rand Drill Company, New York, N. Y. Steam rock-drill	312,348	Feb. 17	1226	337	30	591
Gitt, Daniel D., Arendtsville, Pa. Head-rest	318,368	May 19	1927	520	31	895
Given, Nathan W., and R. A. Dunning, Brunswick, Me. Mail-bag	310,411	Jan. 6	327	90	30	64
Gjers, John. (See Riley, James, assignor.)						
Gjers, John, Middlesbrough-on-Tees, North Riding, county of York, England. Apparatus for treating metal ingots	320,779	June 23	2489	659	31	1527
Gjers, John, Middlesbrough-on-Tees, North Riding, county of York, England. Treating steel ingots	330,780	June 23	2490	660	31	1527
Gladhill, William G. (See Simpson, Gladhill, and Gailliot.)						
Gladish, Francis M., Aulville, Mo. Automatic weighing and sacking machine	331,309	June 30	3058	811	31	1637
Gladish, William J., Chattanooga, Tenn., assignor of one-half to J. W. Love, Fort Valley, Ga., and J. W. Anthoine, Eufaula, Ala. Nail-plate-feeding machine	328,399	Oct. 13	1166	301 302 303	33	220
Gladwin, Gilbert A. (See Hammond, William E., assignor.)						
Glaesline, John A. (See Henderson and Glaesline.)						
Glaggen, Carl F., New York, N. Y. Sofa-bed	322,176	July 14	1047	271	32	199
Glanville, Herbert. (See Judge and Clayton, assignors.)						
Glashan, John H., New York, N. Y. Clothes-line fastener	328,023	Oct. 13	671	176	33	128
Gleason, Francis, Philadelphia, Pa. Loose-pulley lubricator	310,669	Jan. 13	653	179	30	130
Gleason, Franklin A., Brooklyn, N. Y. Nail-machine	327,544	Oct. 6	55	13	33	11
Gleason, Rollin H., assignor to himself, H. P. and C. W. French, Egan, Dak. Ter. Adjustable-panel snow-fence	329,640	Nov. 3	289	73	33	559
Gleason, William B., and M. J. Harrington, Albion, Pa. Ribbon and lace exhibitor and measurer	332,074	Dec. 8	1227	320	33	1226
Gleason, Patrick, Chicago, Ill. Electrottype-block	316,453	Apr. 28	2045	536	31	388
Gleeson, Thomas W. (See Frost, Ellis F., assignor.)						
Glen Cove Machine Company. (See Gray, William H., assignor.)						
Glen Cove Machine Company. (See Welch, Hutchinson, and Gray, assignors.)						
Glen Cove Manufacturing Company. (See Duryea, Wright, assignor.)						
Glenn, Allen, Ree Heights, Dak. Ter. Combined plow and seeder	322,595	July 21	1600	423	32	306
Glenn, Joseph M., assignor of two-thirds to D. N. Coffman and J. F. White, South English, Iowa. Drill	317,336	May 5	558	142	31	625
Glessner, Charles E., Boulder, Colo. Combined tweezers and screw-driver	311,308	Jan. 27	1543	480	30	304
Glidden, Charles W., Lynn, assignor to J. W. Brooks, trustee, Cambridge, Mass. Heel-trimming machine	321,017	June 30	2808	746	31	1592
Glidden, Joseph F., De Kalb, Ill. Fence	323,316	July 28	2612	694	32	498
Glidden, Joseph F., De Kalb, Ill. Gate	328,772	Oct. 20	1661	433	33	318
Glisson, Abram, Rutherford, Tenn. Corn-planter	332,602	Dec. 15	1977	518	33	1363
Globe Drug and Capsule Company. (See Kiebbel, John, assignor.)						
Globe Capsule Company. (See Kiebbel, John, assignor.)						
Globe Files Company. (See Dom, Alexander, assignor.)						
Globe Files Company. (See Jenkins, John M., assignor.)						
Globe Files Company. (See Nanerth, George V., assignor.)						
Globe Files Company. (See Nanerth and Jenkins, assignors.)						
Globe Files Company. (See Yeiser, Henry C., assignor.)						
Globe Thill Coupling Company. (See Atkins, Sullivan H., assignor.)						
Glody, Thomas P., New York, N. Y. Folding bed	312,625	Feb. 24	1593	436	30	669
Gloekler, Bernard, Pittsburg, Pa. Pork-fat-cutting machine	328,667	Oct. 20	1535	399 400	33	294
Gloekler, John, Chicago, Ill. Reclining-chair	328,603	Dec. 15	1979	518	33	1363
Gloeser, Adolph, West St. Paul, Minn. Compound for treating tobacco	327,158	Sept. 29	2632		32	1523
Glover, Carlos W., Boston, Mass. Lathe-chuck	312,638	Feb. 24	1882	516	30	721
Glover, Carlos W., Boston, Mass. Centering-chuck	312,639	Feb. 24	1883	516	30	721
Glover, Frank R. (See Kendall and Glover.)						
Glover, John H., assignor of one-half to R. McMillen, Oshkosh, Wis. Sash and door-sticker	310,579	Jan. 13	540	148 149	30	109
Glover, Joseph N., Chicago, Ill. Device for rendering wooden houses fire-proof	311,309	Jan. 27	1543	490	30	304
Glover, William. (See Macdermott and Glover.)						
Glydon, William F. (See Lloyd and Glydon.)						
Glynn, Miguel A., Havana, Cuba. Railway-tie	317,763	May 12	1113	293	31	735
Gmehlin, Paul. (See Dieckmann, George F., assignor.)						
Gmehlin, Paul, New York, N. Y. Piano-forte	311,243	Jan. 27	1447	394 395	30	287
Gnehm, Robert, assignor to Society of Chemical Industry, Basle, Switzerland. Production of chlorinated derivatives of benzaldehyde	315,932	Apr. 14	1328		31	247
Gnehm, Robert, assignor to Society of Chemical Industry, Basle, Switzerland. Production of chlorophthalic acid	322,368	July 14	1226		32	244
Gnichwitz, Rudolph, assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Type-casting mold	314,827	Mar. 31	2436	643	30	1261
Gobble, William S. (See Haden and Gobble.)						
Godcharles, Charles D., Milton, Pa. Nail-packer	313,721	Mar. 10	924	240	30	959
Godcharles, Charles D., Milton, Pa. Nipper-bar for nail-machines	315,403	Apr. 7	576	148	31	104
Goddard, Asa. (See Burnham and Goddard.)						
Goddard, Asa, et al. (See Worcester, Edward J., assignor.)						
Goddard, Calvin L., New York, N. Y. Toothed cylinder for burring-machines	314,664	Mar. 31	2198	583	30	1236

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Goddard, Calvin L., New York, N. Y. Wool-burring machinery	317,638	May 12	952	244	31	704
Goddard, Charles V., Brooklyn, N. Y. Button	310,039	Jan. 20	1008	273	20	199
Goddard, Charles V., Brooklyn, N. Y. Button	326,211	Sept. 15	1328	344	32	1274
Goddard, David N. (See Lindsey and Goddard.)						
Goddard, Elijah M., Holyoke, Mass. Gas-regulator	322,480	Oct. 20	1270	329	33	247
Goddard, Ezra G., East Saginaw, Mich. Rotary-mold-board plow	326,030	Sept. 8	1076	275	32	1221
Goddard, Rodney W., Wellston, Ohio. Fowl-coop	313,319	Mar. 3	407	101	20	151
Goddu Improvement Company of Maine. (See Goddu, Louis, assignor.)						
Goddu, Louis, Winchester, assignor, by mesne assignments, to N. S. Hotchkiss, Boston, Mass. Nailing-machine	310,810	Jan. 13	836	226	30	164
Goddu, Louis, Winchester, assignor, by mesne assignments, to N. S. Hotchkiss, Boston, Mass. Machine for screw-threading wire	310,817	Jan. 13	839	227	20	164
Goddu, Louis, Winchester, Mass., assignor to Goddu Improvement Company of Maine. Fence-post	315,018	Apr. 7	43	9	31	0
Goddu, Louis, Winchester, assignor to J. W. Brooks, trustee, Cambridge, Mass. Nailing-machine	329,449	Nov. 3	27	8	33	510
Godefroy, Alexander F., St. Louis, Mo. Wig	320,928	June 30	2689	714	31	1570
Godefroy, Alexandre F., St. Louis, Mo. Horse-detacher	325,334	Sept. 1	138	38	32	1041
Godfrey, Andrew. (See Tucker and Godfrey.)						
Godfrey, Charles B., Milford, Mass. Shoe	316,454	Apr. 28	2046	536	31	368
Godfrey, Frank M., Congdon, Nebr. Visual electric signal	310,412	Jan. 6	328	90	30	64
Godfrey, George. (See Patrick and Godfrey.)						
Godfrey, James, Pittsburg, Pa. Sound-concentrator for telephonic instruments	329,732	Nov. 3	414	106	33	584
Godfrey Seamless Pocket Company. (See Bray, Morris P., assignor.)						
Godwin, James. (See Winne, William I., assignor.)						
Goen, Homer B., et al. (See Henderson, Robert M., assignor.)						
Goepel, Paul. (See Wenmaekers, Jerome, assignor.)						
Goering, Jacob, New York, N. Y. Hot-water boiler	332,147	Dec. 8	1345	348	33	1245
Goertz, August, Newark, N. J. Bag-lock	310,413	Jan. 6	329	90	30	64
Goertz, August, Newark, N. J. Satchel-handle	317,114	May 5	239	60	31	567
Goettel, John, St. Paul, Minn., and W. F. Howe, Chicago, Ill. Car-coupling	315,495	Apr. 14	717	189	31	134
Goettler, Charles, New York, N. Y. Machine for cutting cloth, leather, and other substances	320,650	June 23	2333	616	31	1496
Goettmann, Frederick G., Sr., Allegheny, Pa. Rake-tooth	330,108	Nov. 10	929	242	33	689
Goff, Francis C., Englewood, Ill. Coffin	321,433	July 7	25	7	32	8
Goff, Henry J., and T. E. Plouffe, Kempton, Ind. Swinging gate	320,929	June 30	2690	714	31	1570
Goff, Lucius H., Richmond, Vt. Device for lifting kettles	319,226	June 2	353	94	31	1114
Gogerty, John, Decatur, Ill. Soot-consumer and spark-arrester	331,785	Dec. 8	803	204	33	1149
Gold, Willis D., Philadelphia, Pa. Anchor-chain compressor and stopper	311,117	Jan. 20	1259	345	30	246
Goldberg, Louis, Lovo Lane, London, and A. L. Fyfe, Loughborough Park, county of Surrey, England. Apparatus for the transmission of an electric current to moving objects.	316,139	Apr. 21	1615	423	31	306
Golden Gate Concentrator Company. (See Tobey and Thayer, assignors.)						
Golden, Thomas, New York, N. Y. Quarter-boot. (Reissue.)	10,587	Apr. 28	2711	706	31	511
Golden, William, Port Huron, Mich. Saw-fitting tool	311,481	Feb. 3	96	7	30	353
Goldenberg, Lazarus, New York, N. Y. Temporary electric lighting	324,551	Aug. 18	1554	429	32	827
Golder, William L. and W. P. Patchogue, N. Y. Grate	318,720	May 26	2396	639	31	988
Golder, William P. (See Golder, William L. and W. P.)						
Golding, John F., Chicago, Ill. Making metallic screening material	320,240	June 16	1732	459	31	1379
Golding, John F., and G. B. Durkee, Chicago, Ill., assignors to Expanded Metal Company. Machine for making slashed metallic screening	320,241	June 16	1733	460	31	1379
Golding, John F., and G. B. Durkee, Chicago, Ill., assignors to Expanded Metal Company. Making slashed metallic screening	320,242	June 16	1735	461	31	1380
Golding, Moses, Trenton, N. Y. Mining-pit	321,714	July 7	407	108	32	76
Golding, Simon. (See Freaner and Golding.)						
Golding, William H., Chelsea, Mass. Clamp	310,195	Jan. 6	47	13	30	11
Golding, William H., Chelsea, Mass. Combined side and end lock for galleys	320,128	June 16	1591	420	31	1353
Golding, William H., Boston, Mass. Chromatic attachment for printing-machines	322,441	July 21	1386	364	32	269
Golding, William H., Boston, Mass. Printer's galley	329,159	Oct. 27	2224	576	33	425
Goldman, Moses, Pittsfield, Mass. Sprinkler and atomizer	320,346	June 16	1903	501	31	1408
Goldsamith, Albert, Salem, Mass. Car-coupling	323,664	Aug. 4	372	106	32	592
Goldsamith, Benjamin J., Saratoga Springs, N. Y. Ventilating attachment	325,243	Sept. 1	14	5	32	1017
Goldsamith, Daniel, New York, N. Y. Breastpin-watch	320,870	June 23	2603	690	31	1549
Goldsamith, Edwin M., and E. Reizenstein, Philadelphia, Pa. Device for laying off geometric figures	332,148	Dec. 8	1345	348	33	1245
Goldsamith, Ferdinand, assignor of one-half to J. W. Perrin, Saginaw, Mich. Attachment for lamps	324,933	Aug. 25	2088	571	32	934
Goldsamith, Gustavus A. (See Hoffman, Joseph, assignor.)						
Goldsamith, Gustavus A. (See Merrill, Alfred K., assignor.)						
Goldsamith, James, New York, N. Y. Portable meat and fruit preserver	333,122	Dec. 29	2713	712	33	1509
Goldsamith, John S., New York, N. Y. Apparatus for controlling the issue of time-checks	326,493	Sept. 15	1685	440	32	1341
Goldsamith, John S., New York, N. Y. Apparatus for receiving time-checks	326,494	Sept. 15	1688	441	32	1341
Goldsamith, John S., New York, N. Y. Time-check system	326,495	Sept. 15	1691	441	32	1342
Goldsamith, Levi, Baltimore, Md. Drawers and overalls	331,959	Dec. 8	1058	275	33	1197
Goldsamith, Louis. (See Hamilton, Emory M., assignor.)						
Goldsamith, Myer I. (See Pittard, John H., assignor.)						
Goldsamith, Philipp, Covington, Ky. Doll-body with corsets	332,248	Dec. 15	1480	387	33	1256
Goldsamith, Thomas B., Simpsonville, S. C. Cotton chopper and cultivator	330,314	Nov. 10	1188	317	33	741
Goldsphohn, William, Lodi, Wis. Burglar-alarm	320,871	June 23	2604	690	31	1549
Goldsstein, Jacob, and C. H. Rombach, St. Louis, Mo. Overalls and pantaloons	314,122	Mar. 17	1478	385	30	1068
Goldsstein, Samuel, et al. (See Vogel, John B., assignor.)						
Gollehon, Joseph H., G. G. Britton, and J. F. Lucas, Marion, Va. Plaiting apparatus	316,355	Apr. 21	1887	499	31	354
Golling, John. (See Phillips, Troden, and Golling.)						
Gollings, Henry, Beltzhoover, Pa. Fire-escape	323,140	July 28	2355	625	32	453
Gongwer, Jefferson H., Columbia City, Ind. Stove-pipe thimble	316,356	Apr. 21	1887	500	31	355
Gonser, Abasalom B. (See Hollinger, Wolgamot, and Gonser.)						
Gonser, Mike M., Jefferson, Tenn. Nurse-chair	326,110	Sept. 15	1179	301	32	1247
Gooch, Thomas P., Oakland, Miss. Treadle	326,892	Sept. 22	2230	582	32	1445
Good, David H., Canada, Kans. Conveyor for thrashing-machines	315,404	Apr. 7	577	148	31	104
Good, David H., Canada, Kans. Feeder for thrashing-machines	315,764	Apr. 14	1098	288	31	205
Good, John, Brooklyn, N. Y. Machine for drawing or spreading fibrous materials	311,310	Jan. 27	1544	420	30	304

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Good, John, Brooklyn, N. Y. Chain and chain-wheel for machinery for preparing fibrous materials, &c.	311,577	Feb. 3	160	45	30	378
Good, John, Brooklyn, N. Y. Measuring stop-motion for hemp-spreaders, &c.	311,578	Feb. 10	707	194	30	438
Good, John, Brooklyn, N. Y. Machine for spreading hemp, &c.	315,765	Apr. 14	1089	289	31	298
Good, John, Brooklyn, N. Y. Machine for spreading and drawing hemp, &c.	315,766	Apr. 14	1102	290	31	298
Good, John, Brooklyn, N. Y. Machine for drawing and spinning hemp.	317,115	May 5	940	60, 61	31	567
Good, John, Brooklyn, N. Y. Spindle and filer for spinning rope-yarn.	317,116	May 5	945	61, 62	31	568
Good, John, Brooklyn, N. Y. Machine for drawing and spinning hemp.	317,117	May 5	949	62, 63	31	569
Good, John, Brooklyn, N. Y. Spindle and filer for spinning hemp, &c.	317,118	May 5	952	63	31	569
Good, John, Brooklyn, N. Y. Machine for spreading and drawing hemp, &c.	328,582	Oct. 30	1409	366 } 367 }	33	272
Good, John, Brooklyn, N. Y. Manufacturing cordage.	330,315	Nov. 10	1189	318	33	741
Good, Louis C., et al. (See Long, William S., assignor.)						
Good, Martin R., New Holland, Pa. Harness-bridle.	328,773	Oct. 30	1661	433	33	318
Good, William H. (See Bridgers and Good.)						
Goodale, John, Cambridge, Mass. Store-service apparatus.	327,788	Oct. 6	367	95	33	65
Goodale, Laura M., assignor to herself and P. Gordon, Marshalltown, Iowa. Cover for cooking kettles and utensils.	313,320	Mar. 3	408	102	30	851
Goodale, Sarah A., Watertown, N. Y. Pocket for wearing-apparel.	326,971	Sept. 29	1231	623	32	1459
Goodchild, Henry, Cincinnati, Ohio. Temporary binder.	332,390	Dec. 15	1677	439	33	1312
Goode, Sarah E., Chicago, Ill. Cabinet-bed.	322,177	July 14	1048	272	32	199
Goode, William H. C., Sidney, Ohio. Earth-scraper.	316,455	Apr. 28	9047	537	31	388
Goode, William H. C., Sidney, Ohio. Earth-scraper.	316,721	May 26	2397	639	31	929
Goodell, Albert D., assignor to Miller's Falls Company, Miller's Falls, Mass. Scroll-sawing machine.	332,391	Dec. 15	1678	440	33	1312
Goodell Company. (See Goodell, David H., assignor.)						
Goodell Company. (See Oaks, William A. C., assignor.)						
Goodell, David H., assignor to Goodell Company, Antrim, N. H. Apple-parer.	310,196	Jan. 6	49	14	30	12
Goodfellow, James, New York, N. Y. Car-starter.	310,197	Jan. 6	50	14	30	12
Goodfellow, William, South Norwalk, Conn. Pincushion and button-hook holder.	317,969	May 19	1437	392	31	898
Goodhart, George S., Louisville, Ky. Vaporizer and fumigator.	312,459	Feb. 17	1372	378	30	619
Goodhue, George J., assignor of one-third to H. M. Wadleigh, Stevens Point, Wis. Engine-starter.	332,197	Dec. 8	1401	362	33	1256
Goodhue, James E., assignor to Goodhue & Sons, St. Charles, Ill. Windmill.	321,100	June 30	2926	775	31	1612
Goodhue & Sons. (See Goodhue, James E., assignor.)						
Goodin, William I., Cincinnati, Ohio. Window-shade roller.	330,015	Nov. 10	804	206	33	661
Gooding, Charles S., Boston, Mass. Parallel and radial ruler and linear-spacer.	328,668	Oct. 30	1537	400	33	294
Goodloe, William C. (See Ely, Charles M., assignor.)						
Goodman, Benedict, Auburn, Ind. Metal roofing.	319,228	June 2	355	93	31	1115
Goodman, Benedict, Auburn, Ind. Monument.	321,018	June 30	2809	747	31	1363
Goodman, Burkard, et al. (See Smith, William E., assignor.)						
Goodman, Charles R., Hammond, Ind. Apparatus for laying railway-tracks.	312,626	Feb. 24	1594	436	30	689
Goodman, Henri, San Luis Obispo, Cal. Combined strap and waistband for pantaloons.	321,962	July 14	761	199	32	146
Goodman, Samuel N., assignor to C. and J. Button, Jr., Philadelphia, Pa. Mold for casting.	330,109	Nov. 10	930	242	33	689
Goodman, William H., Palmyra, Va. Harrow.	320,347	June 16	1904	502	31	1469
Goodnough, John, Indianapolis, Ind. Cultivator-spring.	316,140	Apr. 21	1616	423	31	306
Goodnough, John, Indianapolis, Ind. Cultivator-coupling.	318,243	May 19	1756	469	31	864
Goodrich, Andrew S., Clifton, assignor to himself and O. F. Shaw, Brooklyn, N. Y. Nut-lock.	322,547	Nov. 3	172	45	33	538
Goodrich, Benjamin F., Akron, Ohio, and L. Smith, Kansas City, Mo. Pneumatic apparatus for grain-conveyers and attachments.	323,317	July 28	2612	695	32	496
Goodrich, Frank L., Chicago, Ill. Combined presser-foot and clamp for holding sewing-machine attachments.	324,247	Aug. 11	1148	313	32	744
Goodrich, George L., assignor to E. Ingraham Company, Bristol, Conn. Regulator for clocks.	332,691	Dec. 22	2379	689	33	1443
Goodrich, Harry C., Chicago, Ill. Ruffing attachment for sewing-machines.	322,548	Nov. 3	173	45, 46	33	538
Goodrich, Harry C., Chicago, Ill. Device for attaching presser-feet and other attachments to sewing-machines.	333,004	Dec. 22	2540	670	33	1472
Goodridge, John C., Jr., New York, N. Y. Repairing with beton or concrete.	317,337	May 5	559	143 } 143 }	31	625
Goodridge, John C., Jr., New York, N. Y. Construction and repair with beton or concrete.	317,338	May 5	561	143	31	626
Goodridge, John C., Jr., New York, N. Y. Deepening and maintaining channels for navigation.	320,129	June 16	1591	420 } 421 }	31	1353
Goodridge, John C., Jr., New York, N. Y. Constructing jetties.	331,127	Nov. 24	2255	613	33	956
Goodsell, Byron W., Chicago, Ill., and B. F. Elsom, Boston, Mass. Packing for pistons, journal-bearings, &c.	329,160	Oct. 27	2225	576	33	428
Goodson, John and W., London, England. Gas-regulator.	313,321	Mar. 3	408	102	30	851
Goodson, William. (See Goodson, John and W.)						
Goodson, William D., Eufala, Ala. Wrench.	324,104	Aug. 11	941	259	32	705
Goodspeed, Charles P., Brooklyn, N. Y. Wick-adjusting mechanism for oil-burners.	315,769	Apr. 14	1108	291	31	297
Goodspeed, Henry C. (See Hayden, Horace L., assignor.)						
Goodwin, Asahel J., Brookline, Mass. Invalid-bedstead.	326,111	Sept. 15	1180	301 } 302 }	32	1247
Goodwin, Charles W., New York, N. Y. Lantern.	319,227	June 2	354	85	31	1114
Goodwin, Edward W., Mulberry, Ohio. Fence.	315,767	Apr. 14	1105	290	31	297
Goodwin, Ella, Chicago, Ill. Washing-machine.	326,903	Sept. 22	2259	599	32	1435
Goodwin, Frank W., Saxonville, Mass. Label.	316,773	Apr. 28	2483	648	31	469
Goodwin Gas Stove and Meter Company. (See Doty, Albert J., assignor.)						
Goodwin, George W., Plain, S. C. Distributer and planter.	324,468	Aug. 18	1446	395	32	807
Goodwin, Henry K., assignor of ten-eighths to Ohio Molecular Telephone Company, Cleveland, Ohio. Electric switch.	324,248	Aug. 11	1149	313	32	744
Goodwin, Henry L., New York, N. Y. Furniture.	326,730	Sept. 22	2044	532	32	1412
Goodwin, Hiland W., Detroit, Mich., assignor to A. C. Hutchison and J. Goss, Beloit, Wis. Stove-pipe fastener or clamp.	321,808	July 7	542	143	32	101
Goodwin, James, Lynn, Mass. Mosquito-net frame.	330,316	Nov. 10	1190	318	33	741
Goodwin, Julius C., Philadelphia, Pa. Tuck-marker.	330,476	Nov. 17	1420	379	33	791
Goodwin, Julius C., assignor to American Buttonhole, Overseaming and Sewing Machine Company, Philadelphia, Pa. Vertically-reciprocating sewing-machine presser-foot.	313,933	Mar. 17	1239	322	30	1023
Goodwin, Julius C., assignor to American Button Hole, Overseaming and Sewing Machine Company, Philadelphia, Pa. Tension device for sewing-machines.	324,249	Aug. 11	1150	313	32	744
Goodwin, Julius C., assignor to American Button Hole, Overseaming and Sewing Machine Company, Philadelphia, Pa. Tension-release for sewing-machines.	324,250	Aug. 11	1151	314	32	744
Goodwin, Lester, Newton, Mass. Album.	318,891	May 26	2631	698	31	1030

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Goodwin, Octavins B. (See Malcolmson, Thomas, assignor.) (Reissue.)						
Goodwin, Phoebe C., Boston, Mass. Multiple measuring utensil	315,768	Apr. 14	1107	291	31	207
Goodwin, Richard J. P., Manchester, N. H. Pneumatic dispatch and speaking tube system	322,178	July 14	1049	272 273	32	199
Goodwin, Seth W., Toledo, Ohio. Drawing-board	316,538	Apr. 28	2147	565	31	408
Goodwin, Thomas A., assignor of one-half to E. Dismant, Camden, N. J. Stair-rod	324,679	Aug. 18	1742	480	32	802
Goodwin, Willard T. (See Donahue, Roche, Goodwin, and Cone.)						
Goodwin, William F., Stelton, N. J. Construction and operation of permanent railways, &c.	329,212	Sept. 15	1328	344	32	1274
Goodyear, Francis W., Springfield, Mass. Toy spring-gun	317,119	May 5	256	64	31	570
Goodyear, Francis W., Springfield, Mass. Toy spring-gun	332,592	Dec. 22	2300	620	33	1443
Goodyear & McKay Sewing Machine Company. (See French, Zachary T., assignor.)						
Goodyear & McKay Sewing Machine Company. (See Littlefield, Augustine F., assignor.)						
Goodyear's Metallic Rubber Shoe Company. (See Crampton, Harry L., assignor.)						
Goodyer, Frederick H., Nottingham, England. Window-curtain	332,604	Dec. 15	1980	518	33	1363
Goulden, Richard E. (See Mackay, Murdoch, assignor.)						
Goulden, William M. (See Russell and Goulden.)						
Gordon, Abijah L., Helix, Oreg. Sod-ground pulverizer	316,141	Apr. 21	1617	423	31	306
Gordon, Alexander, Detroit, Mich. Cigar-bunching machine	328,774	Oct. 20	1662	433	33	318
Gordon, David, et al. (See Walter, Henry C., assignor.)						
Gordon, Edward F. and H. Hobbs, Concord, N. H. Summer cooking-stove	323,665	Aug. 4	373	106	32	592
Gordon, Fred. W., Pittsburg, assignor to Gordon, Strobel & Laureau, Philadelphia, Pa. Blowing-engine valve	325,074	Aug. 25	2276	625	32	900
Gordon, Frederick W., Allegheny, Pa. Hot-blast stove	314,573	Mar. 31	2020	555 556	30	1215
Gordon, George W., Detroit, Mich. Milk and food safe	315,770	Apr. 14	1108	291	31	208
Gordon, James. (See Hanrahan, Joseph F., assignor.)						
Gordon, James F., Rochester, N. Y. Grain-binding machine	320,348	June 16	1905	502 503 504 505	31	1409
Gordon, James L. (See Fox, Frank A., assignor.)						
Gordon, James T., and J. H. Hamilton, Concord, N. H. Automatic side-door latch for cars	329,733	Nov. 3	415	107	33	584
Gordon, John J., Detroit, Mich. Knob attachment	313,722	Mar. 10	925	240	30	959
Gordon, John O., Independence, Kans. Combined end-gate and scoop-board	310,229	June 2	356	95	31	1115
Gordon, John W., and G. T. Blanchard, Plymouth, Me. Vaginal irrigator	331,128	Nov. 24	2257	613	33	957
Gordon, Lyman F. (See Wyman and Gordon.)						
Gordon & Maxwell Company. (See Maxwell, James R., assignor.)						
Gordon, Norman N., assignor of one-half to R. Lichtenstein, Rochester, N. Y. Folding table	316,142	Apr. 21	1618	423	31	307
Gordon, Peter. (See Goodale, Laura M., assignor.)						
Gordon, Solomon J., et al. (See Green, Albert, assignor.)						
Gordon, Strobel & Laureau. (See Gordon, Fred. W., assignor.)						
Gordon, Strobel & Laureau. (See Strobel, Victor O., assignor.)						
Gordon, Thomas, assignor of one-half to E. Stein, Philadelphia, Pa. Gas-governor	315,496	Apr. 14	719	190	31	134
Gordon, Thomas, assignor of one-half to E. Stein, Philadelphia, Pa. Gas-cock	318,978	June 2	67	17	31	1060
Gordon, Thomas R., Brooklyn, N. Y. Car-axle lubricator	311,743	Feb. 3	360	101	30	417
Gore, Henry A., assignor of two-thirds to E. W. Walker and H. V. Ru Ton, Goshen, Ind. Broadcast seed-sower	315,405	Apr. 7	578	149	31	104
Gore, John M. L., Raymond, Kans. Cutting apparatus for mowers and reapers	329,641	Nov. 3	290	74	33	560
Gore, Russell L., Carlisle, Ky. Churn	323,530	Sept. 1	426	105	32	1098
Gorgas, Jacob, and G. E. Mohler, Ephrata, Pa. Cider-press	313,322	Mar. 3	410	102 103	30	851
Gorgas, Lewis H. (See Dow and Gorgas.)						
Gorham, Edwin S. (See Pott and Gorham.)						
Gorham, Henry A., Boston, Mass. Stop and waste cock	329,161	Oct. 27	2226	576	33	426
Gorman, James J., Temescal, Cal. Filling-machine for cans, &c.	310,368	Jan. 6	143	40	30	28
Gorman, Michael O., Jersey City, N. J. Automatic gas-governor	310,580	Jan. 13	542	149	30	110
Gormley, Herbert J., Boston, Mass. Tricycle	314,236	Mar. 24	1618	428	30	1103
Gormly, John, Provo City, Utah Ter. Radiator	319,230	June 2	357	95, 96	31	1115
Gormly, John, Provo City, Utah Ter. Radiator	319,231	June 2	358	96	31	1115
Gormly, Patrick, Philadelphia, Pa. Automatic air-valve for steam-radiators	315,933	Apr. 14	1329	346	31	247
Gornall, Richard, Baltimore, Md. Cable railway	325,205	Aug. 25	2447	673	32	1000
Gornall, Richard, assignor of one-half to G. A. Dubreuil, Baltimore, Md. Store-service apparatus	319,402	June 2	567	154 155	31	1156
Gornall, Richard, assignor of one-half to G. A. Dubreuil, Baltimore, Md. Store-service apparatus	319,403	June 2	571	155 156	31	1156
Gornall, Richard, assignor of ninety one-hundredths to G. A. Dubreuil and J. Hecht, Baltimore, Md. Traction-way	325,167	Aug. 25	2390	658	32	990
Gornall, Richard, assignor of ninety one-hundredths to G. A. Dubreuil and J. Hecht, Baltimore, Md. Apparatus to be used with traction-cables	325,168	Aug. 25	2392	658 659	32	990
Gorner, August W. (See Werner, Emil, assignor.)						
Gorrell, John B., assignor of two-thirds to F. A. and W. J. Hogue, La Otto, Ind. Hydraulic regulator	318,722	May 26	2398	639	31	969
Goringe, Henry H., and A. O. Tengvall, New York, N. Y. Hydraulic ejector	314,237	Mar. 24	1619	428	30	1103
Gorry, William M., Williamantic, Conn. Tool for molding the mold-boards of plows	318,979	June 2	67	17	31	1060
Gorry, William M., Williamantic, Conn. Plow	317,900	June 2	68	17	31	1060
Gorsuch, Benjamin F., Martinsburg, Pa. Fifth-wheel	330,781	Nov. 17	1891	485	33	865
Gorton, Orren A., New York, N. Y. Stiffening-spring for corsets, &c.	319,404	June 2	573	156	31	1157
Gory, Emanuel G., Cincinnati, Ohio, assignor to Corbin Cabinet Lock Company, New Britain, Conn. Lock	324,313	Aug. 11	1241	337	32	762
Gory, Emanuel G., Cincinnati, Ohio, assignor to Corbin Cabinet Lock Company, New Britain, Conn. Cabinet-lock	326,972	Sept. 29	2482	623	32	1400
Goshorn, Peter C., Lionier, Ind. Gate-hinge	323,574	Aug. 4	249	73	32	568
Gosling, Charles, Brooklyn, N. Y. Bangle for jewelry	335,583	Oct. 20	1711	373	33	272
Gosling, Henry J., assignor to G. & H. Barnett, Philadelphia, Pa. Tool-handle	318,103	May 19	1577	452	31	830
Gosling, Henry J., assignor to G. & H. Barnett, Philadelphia, Pa. File-cutting machine	318,104	May 19	1578	422 423	31	830
Gosling, Robert, Hatton Court, Ipswich, county of Suffolk, England. Baffle-plate for flues of boilers	324,552	Aug. 18	1556	420	32	827
Gosman, Robert, Jr., Wading River, N. Y. Seeding-machine	327,253	Sept. 29	2732	714	32	1546
Gosner, David, Philadelphia, Pa. Folding game-table	329,734	Nov. 3	416	107	33	584
Goss, Frederick L. and S. G., Englewood, Ill. Chromatic-printing machine	333,214	Dec. 29	2835	742	33	1330

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Goss, H. H. (See Costello, Thomas H., assignor.)						
Goss, Joseph, <i>et al.</i> (See Goodwin, Hiland W., assignor.)						
Goss, Samuel G. (See Goss, Frederick L. and S. G.)						
Gottlieb, Abraham, Pittsburg, Pa. Metallic railway cross-tie	310,269	Jan. 6	144	40, 41	30	99
Gottlieb, Peter R., Houghton, Mich. Coupling for straps, &c	318,360	May 19	1928	530	31	985
Gottstein, Peter R., Houghton, Mich. Barrel	318,370	May 19	1929	520	31	895
Gütze, Christian C., Cöthen, Germany. Levelling-instrument.	313,723	Mar. 10	926	240	30	959
Goubert, Auguste A., Jersey City, N. J. Feed-water heater	319,232	June 2	359	96, 97	31	1116
Gouch, D. Linn, <i>et al.</i> (See Bennett, Thomas H., assignor.)						
Gould, Aaron P., and H. R. Spencer, Canton, Ohio. Surgical chair	321,800	July 7	543	143	32	101
Gould, Andrew J., Quincy, Cal. Apparatus for storing oil and utilizing the vapors of the same	318,425	May 19	2002	530	31	908
Gould, Andrew J., assignor of one-half to H. M. Barstow, Quincy, Cal. Mail-bag	310,670	Jan. 13	654	179	30	130
Gould, Edward L., <i>et al.</i> (See Heath, James S., assignor.)						
Gould, George W., Yolo Station, Cal. Spreader for thrashers	310,671	Jan. 13	655	180	30	130
Gould, John C., Chicago, Ill. Nail-plate feeder	315,019	Apr. 7	43	9, 10	31	10
Gould, John C., Chicago, Ill. Nail-plate feeder	317,529	May 12	813	209	31	679
Gould, John C., Chicago, Ill. Nipper-rod for nail-plate feeders	318,609	May 19	1580	423	31	630
Gould, John C., Chicago, Ill. Gripping device for nail-plate feeders	329,549	Nov. 3	176	46	33	538
Gould, John D. (See Tisdale, Charles D., assignor.)						
Gould, John H. (See Sawyer and Gould)						
Gould, John H., Philadelphia, Pa. Combined railway-track support and traction-cable and electric-conductor conduit	325,531	Sept. 1	427	106	32	1098
Gould, Joshua P., Bangor, Me. Riveting sheets of metal	315,020	Apr. 7	45	10	31	10
Gould, Philetus W. (See Wait, Oscar E., assignor.)						
Gould, Robert S., East Orange, N. J. Curtain-pole joint	317,339	May 5	562	143	31	696
Gould, Robert S., East Orange, N. J. Curtain-pole bracket	310,090	June 2	192	51	31	1083
Gould, Robert S., East Orange, N. J. Carpet-binding	320,139	June 16	1503	421	31	1333
Gould, Robert S., East Orange, N. J. Carpet-fastener	323,575	Aug. 4	250	73	32	568
Gould, Simcon L., Gardiner, Me., assignor of one-half to G. W. Russell, Lawrence, Mass. Compound pulp-heating engine	310,940	Jan. 20	1009	273	30	199
Gould, Sylvia A. W., administratrix. (See Allen, John G.)						
Gould, William. (See Lee, Daniel, assignor.)						
Gould, William B., Newark, N. J. Sheet-metal trunk-covering and ornamenting the same.	312,715	Feb. 24	1715	471	30	691
Gould, William F., Des Moines, Iowa. Railway-rail joint, chair, and splice	310,581	Jan. 13	543	149	30	110
Goulliond, Louis. (See Pagé and Goulliond.)						
Goulliond, Louis, and C. Pagé, assignors to Union Bearing and Lubricator Company, Montreal, Quebec, Canada, and Portland, Me. Journal-bearing	327,675	Oct. 6	240	59	33	42
Goundry, John B., and W. S. McLeod, Van Buren, assignors of one-third to E. B. Drury, Ypsilanti, Mich. Wash-bench	316,891	Apr. 28	2646	690	31	499
Gourrier, Alfred R., and J. M. Thompson, Doreyville, La. Cane-scraper	327,676	Oct. 6	241	59	33	42
Goussier, Johann W., assignor to F. H. Herhold, Chicago, Ill. Manufacture of amber varnish	311,118	Jan. 20	1261	345	30	247
Gouvenier, Peter, assignor of one-half to B. T. Voite, Chicago, Ill. Ventilated mattress	327,677	Oct. 6	243	59	33	42
Gowdy & Snyder. (See Murray, Charles E., assignor.)						
Gowell, Robert N., Ashburnham, Mass. Road-scraper	311,482	Feb. 3	26	8	30	353
Gowell, Robert N., Ashburnham, Mass. Stone-lifter	313,491	Mar. 10	628	163	30	907
Grabill, John S., Hayesville, Ohio. Horse-power for hay-carriers	315,934	Apr. 14	1330	346	31	247
Grace, Charles C. (See Williams, Thomas J., assignor.)						
Grace, Edward, and C. H. Parshall, Jr., Detroit, Mich. Lubricator	330,691	Nov. 24	1948	527	33	899
Gracey, Charlie, Summit, Miss. Coffee and tea pot stand	312,900	Feb. 10	1013	276	30	543
Gracey, Robert, Pittsburg, Pa. Apparatus for swaging tuyeres	316,539	Apr. 28	2149	565	31	408
Gracey, Robert, Pittsburg, Pa. Making axle-axles	322,481	Oct. 20	1271	330	33	247
Grady, John C., trustee. (See Asper, Benjamin F., assignor.)						
Graef, C. Arnold, Bay Ridge, N. Y. Revolving chair	321,101	June 30	2928	775	31	1612
Graefe, Charles, Sandusky, Ohio. Gas-cantery	319,698	June 9	981	260	31	1238
Graether, Theodore, Detroit, Mich. Vehicle-spring	326,071	Sept. 8	1077	275	32	1321
Gmetzel, Henry F., Gardenville, Md. Check-row corn-planter	319,405	June 2	574	156	31	1157
Graf, Leopold, Newark, N. J. Luster	327,769	Oct. 6	371	96	33	65
Graff, Francis A., New Albany, Ind. Car-truck	325,532	Sept. 1	428	106	32	1098
Graff, Francis A., New Albany, Ind. Car-truck. (Reissue)	10,000	Nov. 10	1264	336	33	755
Graff, Thomas J., Pittsburg, Pa. Shaking-grate	323,029	Aug. 11	708	198	32	664
Graffy, Alois. (See Wadack and Graffy.)						
Graham, Charles, Brooklyn, N. Y. Decoration of pottery-ware	315,221	Apr. 7	46	10	31	10
Graham, Charles, Kingston, assignor of one-half to W. F. Hallstead, Scranton, Pa. Safety-switch stand	316,258	Apr. 21	1762	463	31	333
Graham & Co., James S. (See Kane, John, assignor.)						
Graham, Dugald. (See Parton, Charles, assignor.)						
Graham, Eri, assignor of two-thirds to E. Miller and H. Buchner, Lancaster, Wis. Locomotive-journal lubricator	311,744	Feb. 3	368	101	30	418
Graham, Hugh, Dartmouth, Nova Scotia, Canada. Car-coupling	317,120	May 5	257	64	31	570
Graham, James, Detroit, Mich. Locomotive ash-pan	326,731	Sept. 22	2046	532	32	1412
Graham, John D., Brooklyn, assignor of one-half to S. I. Knight, New York, N. Y. Car-axle lubricator	310,941	Jan. 20	1011	273	30	200
Graham, John H. (See Delagrange, George, assignor.)						
Graham, John W., <i>et al.</i> (See Park, John S., assignor.)						
Graham, Joseph S., Buffalo, N. Y., assignor to himself and G. W. Stevens, Cleveland, Ohio. Chart for railway rolling-stock	330,577	Nov. 17	1539	412	33	814
Graham, Martin F., and O. E. North, Springfield, Ohio. Motor	332,249	Dec. 15	1481	387	33	1277
Graham, Muckersie G., Ottumwa, Iowa. Tongueless cultivator	324,834	Aug. 25	1958	537	32	909
Graham, Peter D., Corunna, Ind. Garden-cultivator	331,606	Dec. 8	1059	275	33	1197
Graham, Simon P., London, Ontario, Canada. Drill-chuck	318,460	May 26	2053	555	31	927
Graham, William A., Carlisle, Pa. Gas-engine	310,317	Nov. 10	1191	318	33	741
Graham, William H., St. Louis, Mo. Water-closet attachment	326,496	Sept. 15	1693	442	32	1342
Graham, William H., Pittsburg, and A. C. Milliken, Millvale, Pa. Roll for rerolling old rails	321,102	June 30	2929	776	31	1612
Grambs, Charles H., North Abington, Pa. Car-coupling	325,798	Sept. 8	782	197	32	1166
Gramer, Joseph, assignor of one-half to O. A. Kimball, Boston, Mass. Music-rack for pianos	314,375	Mar. 24	1808	481	30	1140
Grand Rapids Electric Light and Power Company. (See Thomas, William M., assignor.)						
Grandjean, Arthur, Cincinnati, Ohio. Watch-case spring	311,894	Feb. 10	583	160	30	464

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Gracer, Louis, New York, N. Y. Lady's circular cloak.....	314,665	Mar. 31	2199	584	30	1236
Granger, Albert L., Brooklyn, N. Y. Machine for cutting teeth of rack-bars.....	313,201	Mar. 3	238	60	30	821
Granger, Almon M., Medford, Mass. Automatic fire-extinguisher.....	313,734	Mar. 10	928	241	30	959
Granger, Almon M., Medford, Mass. Water-elevating apparatus.....	329,450	Nov. 3	28	8	33	510
Granger, Almon M., Medford, Mass. Automatic sprinkler for fire-extinguishers.....	331,394	Dec. 1	105	50	33	1032
Granger, Almon M., Medford, Mass., assignor of one-third to J. Clayton, Brooklyn, N. Y. Water-elevating apparatus.....	317,639	May 12	955	245	31	704
Granger, Arthur O., Philadelphia, Pa. Gas-generating apparatus.....	311,484	Feb. 3	31	9	30	355
Granger, Arthur O., Philadelphia, Pa. Apparatus for purifying gas.....	313,661	Mar. 17	1125	292	30	1093
Granger, Arthur O., Philadelphia, Pa. Gas-generating apparatus.....	318,106	May 19	1582	423	31	830
Granger, Arthur O., and J. H. Collins, Jr., Philadelphia, Pa. Apparatus for manufacturing gas.....	311,483	Feb. 3	29	9	30	354
Granger, John, Dunbarton, Ontario, Canada. Millstone-pick.....	313,725	Mar. 10	930	241	30	960
Granger, John H., St. Louis, Mo. Adjustable window-shade attachment.....	333,005	Dec. 22	2541	670	33	1473
Granger, William E., Springfield, Mass. Safety-valve.....	326,504	Sept. 22	2280	599	32	1456
Granniss, Charles E., New Haven, Conn. Ventilator.....	313,492	Mar. 10	631	164	30	903
Grant, Andrew C. (See Grant, Benjamin B. and A. C.)						
Grant, Arthur W. (See Bean and Grant.)						
Grant, Arthur W., Springfield, Ohio. Vehicle-wheel.....	320,930	June 30	2691	714	31	1570
Grant, Benjamin B. and A. C., Hamilton, Ga. Gnuano-distributor.....	324,833	Aug. 25	1957	537	32	909
Grant, Charles, Jr. (See Nourse, James K. P., assignor.)						
Grant & Co., Smith. (See Ladd, Loren G., assignor.)						
Grant, James B., New York, assignor to himself and A. Mason, Brooklyn, N. Y. Treating cotton-seed oil.....	328,024	Oct. 13	672	177	33	128
Grant, James B., New York, and A. Mason, Brooklyn, N. Y. Treating cotton-seed and analogous oils.....	331,702	Dec. 1	688	170	33	1119
Grant, James M. (See Christopher, George W., assignor.)						
Grant, John, Omaha, Nebr. Artificial-snow pavement.....	319,575	June 9	822	218	31	1206
Grant, John, Omaha, Nebr. Concrete pavement.....	330,110	Nov. 10	931	242	33	689
Grant, Joseph A., Everett, assignor to Jarvis Engineering Company, Boston, Mass. Feed-water heater.....	312,716	Feb. 24	1716	471	30	691
Grant, William A., Houston, Tex. Soap-manufacturing machine.....	332,605	Dec. 15	1960	518	33	1364
Grant, William A., Houston, Tex. Manufacture of soap.....	332,606	Dec. 15	1962	519	33	1364
Grant, William W., Brooklyn, N. Y. Camera.....	329,385	Oct. 27	2558	661	33	486
Grassler, William F., Williamsport, Pa. Boiler-furnace.....	311,492	Dec. 1	334	90, 91	33	1058
Grater, Francis A., Providence, R. I. Locking-gear for windlasses.....	310,529	Apr. 21	1764	444	31	333
Grater, Peter, and J. Seibel, Napoleon, Ohio. Straw-carrier.....	311,703	Dec. 1	690	170	33	1180
Grath, John R., Lorain, and T. K. Watson, Leinbach, Pa. Sausage-meat cutter.....	324,835	Aug. 25	1960	538	32	909
Grath, Walter P. (See Koch and Grath.)						
Grathwohl, Fritz, Covington, Ky. Malt-drier.....	324,460	Aug. 18	1447	396	32	897
Grattan, Christopher, Stockton, Cal. Harvester.....	323,124	Dec. 29	9715	713	33	1510
Gravert, Edgar, New York, N. Y. Dynamo-electric machine.....	327,770	Oct. 6	373	96	33	65
Gravley, Henry B. (See Lilly, William H., assignor.)						
Graveline, David U., Byron, Ill. Car-coupling.....	324,680	Aug. 18	1743	480	32	862
Graver, Ja. R., Lincoln, Nebr. Window-screen.....	311,827	Feb. 3	470	127	30	437
Graves, George W., Norwalk, Ohio. Sash-cord fastener.....	322,707	July 21	1747	461	32	334
Graves, John, Brooklyn, assignor to J. R. Dreyfus, New York, N. Y. Metallic spring for vehicles.....	317,990	May 10	1427	383	31	892
Graves, John, assignor to C. Cunningham, Brooklyn, N. Y. Metal barrel or cask.....	327,254	Sept. 20	2753	714	32	1546
Graves, Lorenzo S., assignor to L. S. Graves & Son, Rochester, N. Y. Elevator safety device.....	319,480	June 9	694	187	31	1126
Graves, Roger W., Buffalo, N. Y. Liquid-meter.....	319,511	June 9	1146	303	31	1267
Graves & Son, Lorenzo S. (See Graves, Lorenzo S., assignor.)						
Graves, William W., Whitesborough, Tex. Sliding gate.....	317,765	May 12	1115	294	31	735
Graves, Willis N., assignor of one-half to Hydraulic Press Brick Company, St. Louis, Mo. Brick-kiln.....	326,286	Sept. 15	1430	372	32	1293
Graves, Willis N., assignor of one-half to Hydraulic Press Brick Company, St. Louis, Mo. Brick-machine attachment.....	326,287	Sept. 15	1431	373	32	1293
Graves, Willis N., assignor of one-half to Hydraulic Press Brick Company, St. Louis, Mo. Hydraulic brick-machine.....	326,288	Sept. 15	1433	374	32	1294
Graves, Willis N., assignor of one-half to Hydraulic Press Brick Company, St. Louis, Mo. Brick-machine mold and frame therefor.....	326,289	Sept. 15	1438	375	32	1295
Graves, Willis N., assignor of one-half to Hydraulic Press Brick Company, St. Louis, Mo. Clay cutter and pulverizer.....	330,691	Nov. 17	1684	454	33	844
Gray, Albert Y. (See Gray, Leonidas, and A. C.)						
Gray, Edward J., assignor of one-third to J. C. Davis, Baltimore, Md. Vehicle wheel and axle.....	319,973	June 16	1379	361	31	1315
Gray, Elisha, Highland Park, Ill. Automatic harmonic recorder.....	329,386	Oct. 27	2561	661	33	487
Gray, Frank M., Milwaukee, Wis. Well-reamer.....	310,270	Jan. 6	147	41	30	29
Gray, Gardner B., Cardington, Ohio. Grain-scourer.....	327,790	Sept. 29	2936	766	32	1577
Gray, George L., Cook County, Ill. Sewing-machine attachment.....	315,935	Apr. 14	1331	346	31	247
Gray, George L., Chicago, Ill. Thermostat.....	327,941	Oct. 6	563	146	33	101
Gray, Henry F., Columbus, Ohio. Knockdown table.....	326,112	Sept. 15	1181	302	32	1247
Gray, Henry F., assignor to L. T. Strader, Columbus, Ohio. Printer's drying-rack.....	315,022	Apr. 7	47	10, 11	31	10
Gray, Henry J., Staunton, Va. Railway-chair.....	321,595	July 7	256	68	32	49
Gray, John D. (See Barnard, Henry H., assignor.)						
Gray, John L., Poshtigo, Wis. Wagon-jack.....	321,810	July 7	546	144	32	102
Gray, John W., Hartford, Conn. Rubber tube for syringes, &c.....	315,023	Apr. 7	49	11	31	11
Gray, Leonidas, and A. Y., Middletown Springs, Vt. Governor.....	326,497	Sept. 15	1694	442	32	1342
Gray, Matthew II., Pittsburg, Pa. Expansion-joint.....	330,392	Nov. 17	1309	348	33	770
Gray, Richard, Bloomington, Ill. Pile-coupling.....	317,764	May 12	1114	294	31	735
Gray, Samuel S. (See Fillebrown, Gray, and Fillebrown.)						
Gray, Watson, assignor of one-half to R. H. Webb, Three Rivers, Mich. Paper-stock drainer.....	318,180	May 19	1673	449	31	848
Gray, Watson, assignor of one-half to R. H. Webb, Three Rivers, Mich. Paper-stock drainer.....	325,906	Aug. 25	2448	673	32	1000
Gray, William, Hartford, Conn. Band or collar.....	325,672	Sept. 8	607	154	32	1133
Gray, William B. (See Grosvenor and Gray.)						
Gray, William D., Milwaukee, Wis. Centrifugal reel.....	311,828	Feb. 3	471	128	30	437
Gray, William D., Milwaukee, Wis. Gradual-reduction machine for grain, &c.....	311,829	Feb. 3	473	129	30	438
Gray, William D., Milwaukee, Wis. Scalping-machine.....	332,250	Dec. 15	1482	387	33	1277

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Gray, William H. (See Welch, Hutchinson, and Gray.)						
Gray, William H., assignor to Glen Cove Machine Company, (limited,) Brooklyn, N. Y. Feed mechanism for wood-planing machines.	314,666	Mar. 31	2199	584	30	1236
Gray, William H., assignor to Glen Cove Machine Company, (limited,) Brooklyn, N. Y. Circular sawing machine.	314,667	Mar. 31	2201	584	30	1237
Gray, William H., assignor to Glen Cove Machine Company, (limited,) Brooklyn, N. Y. Pulley and belt-shipper for machinery.	320,434	June 16	2042	536	31	1434
Gray, William H., assignor to Glen Cove Machine Company, (limited,) Brooklyn, N. Y. Fastening for cutter-heads.	321,596	July 7	257	68	32	49
Gray, William H., and A. Hutchinson, assignors to Glen Cove Machine Company, (limited,) Brooklyn, N. Y. Wood-planing machine.	315,406	Apr. 7	580	149 150	31	104
Greacen, John, Bloomfield, N. J. Skate-roller.	325,406	Sept. 1	259	64	32	1064
Greaney, Michael. (See Maher and Greaney.)						
Grehenau, Leopold, Stapleton, N. Y. Jewelry.	324,681	Aug. 18	1744	460	32	862
Green, Albert, assignor to W. N. Abbott and S. J. Gordon, New York, N. Y. Wooden flooring and wainscoting.	329,828	Nov. 3	548	140	33	607
Green, Albert J., assignor of one-half to Stoddard Manufacturing Company, Dayton, Ohio. Machine for bending rake-teeth.	321,019	June 30	2810	747 748	31	1593
Green, Andrew W., Peoria, Ill. Tuning-hammer.	318,981	June 2	69	18	31	1061
Green, Charles E. (See Leidy and Green.)						
Green, Daniel B., et al. (See Cameron, Ezra G., assignor.)						
Green, David N., Commercial Point, Ohio. Grain-binder.	331,493	Dec. 1	336	91	33	1058
Green, Edmund, Oakland, Cal. Ore-roasting furnace.	323,666	Aug. 4	374	106	32	592
Green, Elmer, North East, Pa., and W. K. Palmer, Cleveland, Ohio. Painting-machine.	330,318	Nov. 10	1193	319	33	742
Green, Francis L. (See Green, Milton E., assignor.)						
Green, Frank. (See Hazard, Edward C., assignor.)						
Green, Horatio, Clinton, Mo. Gate.	332,341	Dec. 15	1606	422	33	1229
Green, James E., 2d. (See Hawes and Green.)						
Green, John, Sewickley, Pa. Preparation of boot or shoe uppers for lasting.	319,699	June 9	982	260	31	1238
Green, John, Williamsburg, Ky. Log-boom.	320,010	Nov. 10	805	260	33	662
Green, John A., Waltham, Mass. Device for opening animals' mouths.	314,527	Mar. 24	2017	538	30	1176
Green, John J., Boonton, N. J., assignor of one-half to H. C. Willis and T. F. Hunter, Brooklyn, N. Y. Electric-current meter.	327,391	Sept. 29	2937	766	32	1577
Green, Joseph D., Coloma, Mo. Rail-joint.	321,715	July 7	408	100	32	76
Green, Milton E., assignor to F. L. Green, Hartford, Conn. Device for attaching lanterns to cars, carriages, &c.	319,233	June 2	361	97	31	1116
Green, Philip E., et al. (See Fox, William H., assignor.)						
Green, Robert W., et al. (See Fox, William H., assignor.)						
Green, Samuel F., Salamanca, N. Y. Car-coupling.	318,107	May 19	1583	423	31	831
Green, Sanford, Marengo, Iowa. Wire-stretcher.	321,963	July 14	761	199	32	147
Green, William, et al. (See Benedict, Jacob, assignor.)						
Green, William C., Livingston, Mont. Ter. Brush for lining brick houses.	332,392	Dec. 15	1679	440	33	1312
Green, William G. (See DeGrange and Green.)						
Green, William W. (See Wilson and Green.)						
Greenamyer, Clarence V., Western, Nebr. Car-mover.	329,642	Nov. 3	292	74	33	560
Greene, Darwin A., New York, N. Y. Wood-splitting machine.	313,586	Mar. 10	749	197 198	30	926
Greene, Francis V., Philadelphia, Pa. Extracting the oil and albuminoid matter from corn.	313,665	Mar. 10	853		30	946
Greene, Henry, Upper Thames Street, London, England. Belt-fastener.	328,212	Oct. 13	912	237	33	174
Greene, J. Durell, Ann Arbor, Mich., assignor of one-fourth to V. A. King, New Haven, Conn. Magazine fire-arm.	312,201	Feb. 10	1013	276	30	543
Greene, James G., Rochester, N. Y., assignor to Singer Manufacturing Company of New Jersey. Clamp for button-hole sewing-machines.	319,700	June 9	983	260	31	1238
Greene, John B., Ware, Mass. Link.	330,893	Nov. 24	1940	528	33	899
Greene, John W., Deer Isle, Me. Cringle.	310,414	Jan. 6	330	90	30	64
Greene, Sylvester S., Lead City, Dak. Ter. Animal-trap.	328,669	Oct. 20	1540	400 401	33	294
Greene, Walter S., et al. (See Curtis, David W., assignor.)						
Greene, William A., Brooklyn, N. Y. Oil or gas stove.	314,929	Mar. 31	2573	680 681	30	1304
Greene, William H., Lowell, Mass. Carpenter's rule.	325,533	Sept. 1	428	106	32	1098
Greener, Richard, assignor of one-half to W. A. Hedden, New Albany, Ind. Manufacturing oversocks.	321,811	July 7	548	144	32	102
Greenfield, Edwin T., assignor of one-half to Holmes Burglar Alarm Telegraph Company, New York, N. Y. Telephone.	316,260	Apr. 21	1765	464	31	333
Greenfield, Nelson. (See Schwarzschild and Greenfield.)						
Greenhalgh, Robert C., Philadelphia, Pa. Machine for cutting double pile fabrics.	323,667	Aug. 4	375	107	32	582
Greenhalgh, Samuel, Port Jervis, N. Y. Cross-head for steam-engines.	318,244	May 19	1757	470	31	864
Greenhoot, David, Cincinnati, Ohio. Supporter for wearing-apparel.	315,497	Apr. 14	721	190	31	134
Greenhoot, David, Cincinnati, Ohio. Cuff-holder.	330,692	Nov. 17	1685	455	33	844
Greenleaf, Joseph H. (See Evarts and Greenleaf.)						
Greenleaf, Miller T. (See Grimm, Joseph, assignor.)						
Greenlee, David P., et al. (See Davis, John P., assignor.)						
Greenlee, Ralph S. (See Greenlee, Robert L. and R. S.)						
Greenlee, Robert L. and R. S., Chicago, Ill. Machine-table.	326,640	Sept. 22	1889	495 496	32	1385
Greenlees, William A., Ottawa, Ill. Snow-clearer.	333,006	Dec. 22	2542	670	33	1474
Greenough, J. J. (See Hollick, Frederick, assignor.)						
Greenwade, Moses M., Cincinnati, Ohio. Draft apparatus for steam-boilers.	310,198	Jan. 6	51	14	30	12
Greenwald, Kasper J., Newark, N. J. Lasting-pinchers.	316,357	Apr. 21	1888	500	31	355
Greenwood, Alvin M., et al. (See Conant, Fred H., assignor.)						
Greenwood, Alvin M., et al. (See Ellis, George A., assignor.)						
Greenwood, Alvin M., et al. (See Ellis and Taft, assignors.)						
Greenwood, Alvin M., et al. (See Watkins, Gardner A., assignor.)						
Greenwood, John T., Jr., Beloit, Wis. Fireproofing compound.	322,280	July 14	1168		32	222
Greenwood, Peter F., Catasaquua, Pa. Manufacture of links.	310,415	Jan. 6	331	91	30	64
Greenwood, Peter F., Catasaquua, Pa. Horse-shoe-blank.	320,350	June 16	1921	506	31	1411
Greenwood, Peter F., assignor to himself and Bryden Forged Horse-shoe Works, (limited,) Catasaquua, Pa. Manufacture of horse-shoes.	320,349	June 16	1920	505 506	31	1411
Greer, Eliza M., Stockton, Cal. Folding and adjustable window-bracket shelf.	333,007	Dec. 22	2543	670	33	1474
Greer, Howard, Chicago, Ill. Sickle-blank.	312,840	Feb. 24	1884	516	30	721
Greer, John. (See Greer, Harper, and Greer.)						
Greer, John L., W. M. Harper, and J. Greer, Headsville, Tex. Cotton-chopper.	330,477	Nov. 17	1421	379	33	792

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Greey, Edward. (See Brower, Bloomfield, assignor.)						
Gregg, Harlan, Nashua, N. H. Registering measuring-staff	316,358	Apr. 21	1889	500	31	355
Gregg, John, et al. (See Straw, George, assignor.)						
Gregory, Arthur F., New York, N. Y. Shade-pull	327,545	Oct. 6	58	13	33	12
Gregory, Fred L., Niagara Falls, N. Y. Lathe-chuck	327,791	Oct. 6	374	97	33	66
Gregory, George L., Marion, assignor of one-half to Fort Dodge Gypsum Stucco Company, Fort Dodge, Iowa. Plaster compound	315,936	Apr. 14	1332		31	247
Gregory, George W. (See Haynes, Edgar K., assignor.)						
Gregory, Harvey, et al. (See Beaver, George W., assignor.)						
Gregory, Henry P., et al. (See Orton, Gerrit V., assignor.)						
Gregory, James J. H., et al. (See Fuller, Solomon, assignor.)						
Gregory, John R., assignor of one-half to G. T. and J. G. Wallace, Wallacetown, Va. Plow attachment	317,340	May 5	563	144	31	696
Gregory, Silas W., et al. (See Orton, Gerrit V., assignor.)						
Greig, Alfred, R. H. Shaw, Leeds, county of York, and J. Whittingham, Nantwich, county of Chester, England. Traction-engine	316,774	Apr. 28	2484	648	31	470
Greindl, Gustave, Brussels, Belgium. Rotary pump	313,415	Mar. 3	523	137	30	875
Greiner, Bruno, New York, N. Y. Music-recording attachment for key-board instruments	321,358	June 30	3941	864	31	1673
Grenville, George A., Kingsville, Ontario, Canada. Sash-holder	317,121	May 5	258	64	31	570
Gresham, James, Manchester, county of Lancaster, England. Ejector for vacuum-brakes	312,091	Feb. 24	2075	566	30	755
Gresham, James, Manchester, county of Lancaster, England. Injector	318,899	May 26	2632	698	31	1030
Gresham, James, Manchester, county of Lancaster, England. Injector	319,481	June 9	606	187	31	1186
Gresham, James, Stretford, near Manchester, county of Lancaster, England. Injector	331,193	Nov. 24	2353	636	33	974
Gresham, James, Salford, county of Lancaster, assignor to Vacuum Brake Company, (limited.), 32 Queen Victoria Street, county of Middlesex, England. Automatic vacuum-brake apparatus	332,653	Dec. 15	3049	538	33	1376
Gressle, John F., Hamilton, Ohio. Tree-seat	323,415	Aug. 4	43	11	32	531
Greve, Henry B., Milwaukee, Wis. Smoke-consuming furnace	325,307	Aug. 25	9449	674	32	1001
Grey, Henry, and R. Bowater, Beaver Falls, Pa. Wire-rod-rolling mill	322,221	July 14	1169	306	32	222
Grey, Thomas C. (See Larkin, John C., assignor.)						
Gribble, Thomas, and R. Abraham, Calumet, Mich.; said Abraham assignor to said Gribble. Boot or shoe protector	328,944	Oct. 20	1753	456	33	335
Gridley, Dwight, Newark, N. J. Picture-hanger	332,198	Dec. 8	1403	362	33	1256
Gridley, Harrison, and T. Johnson, Canandaigua, N. Y. Combined coal screen and dust-receiver	311,465	Feb. 3	33	10	30	355
Gridley, Harrison, and T. Johnson, Canandaigua, N. Y. Railway-gate	324,934	Aug. 25	2089	572	32	934
Gridley, John W., assignor to Southington Cutlery Company, Southington, Conn. Curry-comb	317,341	May 5	564	144	31	626
Gridley, Samuel C., Nordhoff, Cal. Gate	326,732	Sept. 22	2047	533	32	1412
Grier, J. S., et al. (See Helms, Jacob H., assignor.)						
Grier, William W., Hulton, Pa. Vehicle-spring	330,578	Nov. 17	1540	412	33	814
Griesser, William, Chicago, Ill. Partition-wall	319,576	June 9	822	218	31	1309
Griesser, William, Chicago, Ill. Conveyor	331,961	Dec. 8	1061	275	33	1198
Griest, John M., assignor to Chicago Attachment Company, Chicago, Ill. Ruffler for sewing-machines	311,119	Jan. 20	1962	346	30	247
Griest, John M., Chicago, Ill., assignor to Singer Manufacturing Company of New Jersey. Embroidering attachment for sewing-machines	319,701	June 9	985	261	31	1238
Griest, John M., Chicago, Ill., assignor to Singer Manufacturing Company of New Jersey. Presser-foot for sewing-machines	319,702	June 9	987	261	31	1239
Griest, John M., Chicago, Ill., assignor to Singer Manufacturing Company of New Jersey. Throat-plate attachment for sewing-machines	319,703	June 9	988	261	31	1239
Griest, John M., Chicago, Ill., assignor to Singer Manufacturing Company of New Jersey. Underbrailer for sewing-machines	319,704	June 9	989	261	31	1239
Griest, John M., Chicago, Ill., assignor to Singer Manufacturing Company of New Jersey. Attachment-holder for sewing-machines	319,705	June 9	990	262	31	1239
Griest, John M., Chicago, Ill., assignor to Singer Manufacturing Company of New Jersey. Tuck-marker for sewing-machines	319,706	June 9	991	262	31	1239
Griest, John M., Chicago, Ill., assignor to Singer Manufacturing Company of New Jersey. Ruffling attachment for sewing-machines	319,707	June 9	993	262	31	1240
Griest, John M., Chicago, Ill., assignor to Singer Manufacturing Company of New Jersey. Button-hole attachment for sewing-machines	332,251	Dec. 15	1483	388	33	1277
Griffin, Arthur B. (See Denny and Griffen.)						
Griffin, Arthur B., Newark, N. J. Apparatus for mixing aeriform fluids	320,060	June 16	1493	394	31	1336
Griffin, Carrie G., Manhattan, Kans. Combined door check and buffer	321,964	July 14	762	199	32	147
Griffin, Duane D., and L. H. Bachtell, Baltimore, Md. Metal-planer	329,550	Nov. 3	177	47	33	538
Griffin, E. Harrison, New York, N. Y. Umbrella-lock	313,493	Mar. 10	632	164	30	903
Griffin, Franklin D., Amber, N. Y. Device for preserving eggs	329,387	Oct. 27	2563	661	33	487
Griffin, George W., Franklin Falls, N. H. Machine for finishing washers	324,682	Aug. 18	1744	480	32	962
Griffin, Ira J., Sing Sing, N. Y. Fluid-pressure regulator	317,991	May 19	1430	383	31	803
Griffin, James K., Brooklyn, N. Y., assignor to Griffin Manufacturing Company. Ore-pulverizer	318,181	May 19	1674	449	31	848
Griffin, James K., Brooklyn, N. Y., assignor to Griffin Manufacturing Company. Reducing ores, &c	318,245	May 19	1758	470	31	864
Griffin, James L., Cuaseta, Tex. Car-coupling	317,342	May 5	565	144	31	626
Griffin Manufacturing Company. (See Griffin, James K., assignor.)						
Griffin, P. Henry. (See Dalgarno, James, assignor.)						
Griffin, P. Henry, Detroit, Mich. Metallic curbing for containing electrical wires	310,271	Jan. 6	148	41	30	30
Griffin, P. Henry, Detroit, Mich. Cast-iron column	312,340	Feb. 17	1229	338	30	591
Griffin, P. Henry, Detroit, Mich. Arch for supporting electric lamps	326,498	Sept. 15	1695	442	32	1343
Griffin, Thomas A., and C. Atkins, assignors to Ajax Forge Company, Chicago, Ill. Link-machine	326,973	Sept. 29	2383	692	32	1480
Griffin, Thomas A., and C. Atkins, assignors to Ajax Forge Company, Chicago, Ill. Mandrel for use in welding links	326,974	Sept. 29	2384	694	32	1480
Griffith, Alice A., et al. (See Griffith, Isaac N. and C. F., assignors.)						
Griffith, Cary F. (See Griffith, Isaac N. and C. F.)						
Griffith, David. (See Lesley and Griffith.)						
Griffith, Isaac N. and C. F., assignors to A. A. and M. B. Griffith, Macomb, Ill. Automatic grain weigher and register	331,962	Dec. 8	1063	276	33	1198
Griffith, Mary B., et al. (See Griffith, Isaac N. and C. F., assignors.)						
Griffith, Nathan H., Providence, R. I. Wrench	331,053	Nov. 24	2145	582	33	937
Griffith, Thomas, near Manchester, county of Lancaster, England. Stair-pad	313,202	Mar. 3	240	60	30	821

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Griffiths, David, Egypt, Pa. Manufacture of hydraulic cement.....	311,885	Feb. 10	585		30	465
Griffiths, David, Egypt, Pa. Machinery for manufacturing Portland cement.....	313,303	Mar. 3	241	01	30	821
Griffiths, George H., New Rochelle, N. Y. Treadle-motion for velocipedes.....	314,013	Mar. 17	1332	347	30	1042
Griffiths, James A. (See Fergus and Griffiths.)						
Griffiths, Oliver W., Brooklyn, N. Y. Package-carrier.....	317,640	May 12	958	246	31	705
Griffiths, William H., assignor of one-half to H. M. Dow, Medford, Mass. Roller-skate.....	329,629	Nov. 3	540	140	33	607
Griggs, George H., Providence, R. I. Locomotive.....	328,845	Oct. 20	1754	457	33	335
Griggs, George H., Hornellsville, N. Y., assignor to C. F. Pike, Providence, R. I. Locomotive spark arrester and consumer.....	316,892	Apr. 28	2647	690	31	500
Griggs, Henry C., Waterbury, Conn. Button.....	325,407	Sept. 1	259	65	32	1064
Grigsby, Lemuel Z., Minden, La. Combined cotton chopper and cultivator.....	310,416	Jan. 6	331	91	30	65
Grim, Abraham K. (See Low and Grim.)						
Grim, Charles M. (See Packer and Grim.)						
Grime, John, assignor of one-half to G. H. Eastman, Minneapolis, Minn. Valve-gear for engines.....	330,782	Nov. 17	1899	425	33	565
Grimes, George R., Terre Haute, Ind. Garment-hook.....	317,343	May 5	566	143	31	686
Grimm, Albert C. F., New York, N. Y. Curtain-fixture.....	330,579	Nov. 17	1541	412	33	844
Grimm, Fred, Comanche, Tex. Post-hole auger.....	330,580	Nov. 17	1542	413	31	815
Grimm, Gustave H., Hudson, Ohio. Making evaporating-pans.....	316,893	Apr. 28	2650	691	31	500
Grimm, Henry A., St. Louis, Mo. Bread-cutter.....	325,741	Sept. 8	713	178	32	1153
Grimm, John T. (See Powell and Grimm.)						
Grimm, Joseph, assignor of part to M. T. Greenleaf, Quincy, Ill. Stove-pipe damper.....	317,092	May 19	1451	363	31	803
Grimm, Paul H., and W. I. Fancher, Glen Cove, N. Y. Safety attachment for gas-burners.....	323,215	Dec. 29	2837	743	33	121
Grimmsey, Orris H., Warren, Ohio. Lamp-bracket.....	321,020	June 30	2914	748	31	1593
Grinnell, Amos L., Campbell, Iowa. Portable platform dump and elevator.....	332,554	Dec. 15	3050	559	33	1577
Grinnell, Frederick, Providence, R. I. Machine for tapping pipe-fittings.....	311,311	Jan. 27	1546	421	30	304
Griscom, John, Brooklyn, N. Y., Brooding-house for chickens.....	319,234	June 2	362	97	31	1116
Griscom, John P. (See Griscom, Lewis and J. P.)						
Griscom, John P., Pottsville, Pa. Diamond-drill core-breaker.....	327,942	Oct. 6	564	147	33	101
Griscom, John P., Pottsville, Pa. Diamond-drill core-breaker.....	327,943	Oct. 6	566	147	33	102
Griscom, John P., Pottsville, Pa. Guide-clamp for drill-rods.....	327,944	Oct. 6	567	147	33	102
Griscom, Lewis, Pottsville, Pa. Stub end for connecting-rods.....	323,885	Oct. 20	1810	471	33	345
Griscom, Lewis, Pottsville, Pa. Stub end for connecting-rods. (Reissue).....	10,668	Dec. 1	702	102	33	1151
Griscom, Lewis and J. P., Pottsville, Pa. Deep-well pump.....	323,805	Aug. 4	544	155	32	625
Griscom, Lewis and J. P., Pottsville, Pa. Apparatus for manipulating drill-rods.....	322,213	Oct. 13	912	237	33	174
Griscom, Samuel E. (See Griscom, McFeely, and Butler, assignors.)						
Griscom, Samuel E., et al. (See Butler and McFeely, assignors.)						
Griscom, Walter, et al. (See Butler and McFeely, assignors.)						
Griscom, Walter, Philadelphia, Pa., T. McFeely, Alexandria County, Va., and E. T. Butler, Hamilton, Ohio, assignors to said Griscom and McFeely, and S. E. Griscom, Philadelphia, Pa. Roller-mill.....	325,601	Sept. 1	510	127 129	32	1112
Grobel, George, New York, N. Y., assignor to Singer Manufacturing Company of New Jersey. Moquet needle for carpet-sewing machines.....	333,125	Dec. 29	2717	713 714	33	1510
Grist, Benjamin W., Reading, Pa. Hoisting-drum for elevators.....	323,934	Oct. 27	1898	472	33	366
Griswold, Edmond, assignor to E. A. Griswold, New York, N. Y. Fastening device for gloves, garters, &c.....	314,174	Mar. 17	1542	474	30	1679
Griswold, Elbridge H., Brandon, Vt. Two-wheeled vehicle.....	330,017	Nov. 10	507	206	33	662
Griswold, Elizabeth A. (See Griswold, Edmond, assignor.)						
Griswold, Frank B., Troy, N. Y. Bale-tie.....	322,442	July 21	1393	365	32	270
Griswold, Frank W., Providence, R. I. Time-check register.....	313,934	Mar. 17	1240	323	30	1023
Griswold, Horace P., Providence, R. I. Electro-magnetic steering and reversing mechanism for torpedo-boats.....	333,008	Dec. 22	2544	671	33	1474
Griswold, Lewis F. (See Parker and Griswold.)						
Griswold, Stephen M. (See Merritt, Samuel F., assignor.)						
Gritton, William H., Jr. (See White, Ross, Creasy, and Gritton.)						
Groce, Jacob M., assignor of one-fourth to A. Hertje, Ravenswood, W. Va. Floor-clamp.....	322,369	July 14	1227	326	32	244
Groebl, Joseph A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Embroidering-machine.....	322,935	Oct. 27	1889	402 473 484 485	33	366
Groesbeck, David, C. A. Ball, and J. A. Sterling, New York, N. Y. Spark-arrester.....	324,693	Aug. 18	1747	461 462	32	863
Groff & Bennett Saw Guard Manufacturing Company. (See Groff, Joseph G., assignor.)						
Groff, Joseph G., assignor to Groff & Bennett Saw Guard Manufacturing Company, Connorsville, Ind. Saw guard.....	311,486	Feb. 3	34	10	30	355
Groff, Joseph G., Connorsville, Ind., assignor to Groff & Bennett Saw Guard Manufacturing Company, Cincinnati, Ohio. Saw-guard.....	323,318	July 28	2613	005	32	490
Groff, William, Rome, N. Y. Bee-bive.....	330,783	Nov. 17	1503	486	33	865
Groff, William C., Sr., Camden, N. J. Garbage-box.....	317,452	May 5	716	150	31	692
Gründahl, Wilhelm A., Portland, Oreg. Steam-generator.....	319,235	June 2	364	97	31	1116
Groom, Patrick W., assignor to Groom Shovel Company, St. Louis, Mo. Shovel or spade handle.....	315,407	Apr. 7	584	150	31	105
Groom, Shovel Company. (See Groom, Patrick W., assignor.)						
Groom, Wallace P., Brooklyn, N. Y. Article of wearing-apparel provided with button-holes.....	320,131	June 16	1593	421	31	1353
Groom, Wallace P., Brooklyn, N. Y. Button-hole for wearing-apparel.....	320,132	June 16	1594	421	31	1353
Grooms, James M., assignor of one-half to W. A. J. Thompson, Avery, Iowa. Coal-drilling machine.....	313,204	Mar. 3	242	61	30	822
Grosch, William, Verona, N. J. Stamp-mill.....	313,587	Mar. 10	751	198	30	936
Grosdon, John A., New York, N. Y. Compound steam-engine.....	319,900	June 9	1260	324	31	1282
Grosdon, John A., New York, N. Y. Compound steam-engine.....	319,901	June 9	1271	333	31	1288
Grosinski, Casper, and G. B. Beecher, Morrison, Ill. Line-stretcher.....	333,067	Dec. 22	2621	667	33	1457
Grosjean, Charles T., assignor to Tiffany & Co., New York, N. Y. Siphon-bottle cover.....	312,562	Feb. 17	1319	414	30	646
Grosjean, Charles T., assignor to Tiffany & Co., New York, N. Y. Bottle-top.....	322,370	July 14	1288	337	32	245
Grosjean, E. G., et al. (See Cole, Cary O., assignor.)						
Grosjean, E. G., et al. (See Shick, Daniel W., assignor.)						
Gross, Frank. (See Kubler, Johan, assignor.)						
Gross, Henry, Chicago, Ill. Lock mechanism for safes.....	315,612	Apr. 14	887	233	31	165
Gross, Henry, Chicago, Ill. Lock mechanism for safes.....	315,613	Apr. 14	892	234	31	166
Gross, Henry, Chicago, Ill. Permutation-lock.....	318,982	June 2	70	18	31	1061
Gross, Henry, Chicago, Ill. Time-lock.....	321,893	July 7	663	172	32	121
Gross, Henry, Chicago, Ill. Time-lock.....	321,894	July 7	666	173	32	121

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Gross, Henry B. (See Elson, Jacob, assignor.)						
Gross, Henry P., assignor to P. I. Gross, Baltimore, Md. Basket.....	326,499	Sept. 15	1697	443	32	1343
Gross, Triscilla I. (See Gross, Henry P., assignor.)						
Gross, Rudolph. (See Wessel, Nickel, and Gross.)						
Grosvenor & Richards. (See Webster, Justus, assignor.)						
Grosvenor, Thomas W., Herkimer, and W. B. Gray, Utica, N. Y. Roller-skate.....	322,371	July 14	1229	337	32	245
Grother, Louis. (See Fischer and Grother.)						
Grottenthaler, Joseph, assignor of one-half to P. J. Huber and W. P. Koonaman, Allegheny, Pa. Manufacture of iron and steel.....	311,830	Feb. 3	477		30	438
Grout, Charles P., New York, N. Y. Tooth-crown.....	310,236	June 2	365	98	31	1117
Grout, Charles P., New York, N. Y. Dental tool for preparing roots for crowns.....	319,237	June 2	366	98	31	1117
Grout, Charles P., New York, N. Y. Applying metallic tooth-crowns.....	319,238	June 2	368	98	31	1117
Grout, Charles P., New York, N. Y. Artificial tooth.....	330,931	Nov. 17	1862	503	33	876
Grout, Charles P., New York, N. Y. Artificial tooth.....	333,216	Dec. 23	2837	743	33	1331
Grout, Frank R., Chicago, Ill. Collapsible can.....	317,641	May 12	952	946	31	705
Grout, John C. (See Honck, John A., assignor.)						
Grout, William L., and E. L. Bowers, Orange, Mass. Machine for drilling metal blanks.....	333,461	Dec. 23	3109	928	33	1389
Grove, David, Berlin, Germany. Drier.....	313,416	Mar. 3	525	{ 137 138 }	30	875
Grove, J. Ross, York, Pa. Safe.....	333,068	Dec. 22	2922	{ 687 688 }	33	1487
Grove, Winfield S., Philadelphia, Pa. Handle for children's carriages.....	310,092	June 2	1274	335	31	1219
Grover, Charles, Kansas City, Mo. Carpet-stretcher.....	324,766	Aug. 18	1856	511	32	884
Grover, Charles, Kansas City, Mo. Combined band-cutter and grain-feeder for thrashers.....	314,757	Aug. 13	1856	511	32	884
Grover, Jonathan O., Lynn, Mass. Bevel-square.....	310,921	June 30	2373	714	31	1571
Grover, Morcan L., Laval, Wis. Washing-machine.....	327,159	Sept. 20	2653	685	32	1523
Grover, William, Holyoke, Mass. Thread-unwinder.....	331,124	Nov. 24	2335	637	33	974
Groves, Frederic S. (See Cone and Groves.)						
Groves, Frederic S., et al. (See Parry, George T., assignor.)						
Groves, James. (See Kelly and Groves.)						
Groves, Josiah, Pullman, Ill. Draw-bridge.....	322,708	July 21	1748	402	32	334
Groves, Simeon S., Griggsville, Ill. Kitchen-cabinet.....	317,766	May 12	1116	294	31	735
Grovesteen, Milton W., New York, N. Y. Electric indicating apparatus.....	322,818	July 21	1828	{ 501 502 }	32	379
Grovesteen, Milton W., New York, N. Y. Electric signaling apparatus for machinery.....	329,820	Nov. 3	750	140	21	707
Grow, Charles M., Frederick, Md. Composing-stick.....	318,693	May 26	2635	679	31	1039
Grubb, David, Waldron, Ind. Combined band-cutter and feeder for thrashing-machines.....	310,417	Jan. 6	333	91	30	65
Grubb, William S., Baraboo, Wis. Applying boiler-coverings.....	317,570	May 12	814	203	31	679
Grubb, William S., Baraboo, Wis. Fish-plate fastening.....	317,531	May 12	815	210	31	679
Grubbe, Humbert H., assignor of one-half to C. H. Benton, London, England. Making incandescents.....	323,319	July 28	2615		33	499
Grube, Jefferson, Newark, Ohio. Blast-regulator for grain-separators, &c.....	312,992	Feb. 21	2978	566	30	756
Grube, Jefferson, Newark, Ohio. Blast-regulator for grain-separators.....	314,668	Mar. 31	2302	553	31	1237
Grummann, Albert U., Indianapolis, Ind. Elevator-gate.....	311,120	Jan. 20	1264	346	30	247
Grummann, Albert U., assignor of one-half to J. F. Brown, Indianapolis, Ind. Barrel-skid.....	311,655	Feb. 3	258	71, 72	30	397
Grundel, Theodore. (See Barton, Edward F., assignor.)						
Grünert, Ernst O., Meissen, Saxony, Germany. Manufacture of linophantes or translucent pictures.....	314,931	Mar. 31	2578		30	1305
Grüninger, Otto. (See Woldenmann and Grüninger.)						
Gustavino, Rafael, New York, N. Y. Construction of fire-proof buildings.....	323,970	Aug. 11	709	199	32	664
Gudol, John, Canal Dover, Ohio. Screw-thread-cutting tool.....	326,733	Sept. 22	2048	533	32	1413
Gudolboef, John. (See Nolen, Henry, assignor.)						
Guelph, John B. (See Gabel and Guelph.)						
Guenther, John E., Owensboro, Ky. Water-cooling attachment for refrigerators.....	314,175	Mar. 17	1544	404	30	1079
Guerber, Frederick S., assignor to Union Switch and Signal Company, Pittsburg, Pa. Signal-compensator.....	330,832	Nov. 17	1863	503	33	873
Guernsey, Charles S., Waterbury, Conn. Balance-wheel for watches.....	325,603	Sept. 1	512	128	31	1113
Guernsey, Charles S., Waterbury, Conn. Watch-barrel.....	325,603	Sept. 1	512	128	32	1113
Guernsey, Charles S., Waterbury, Conn. Winding attachment for watches.....	325,604	Sept. 1	513	128	32	1113
Guernsey, Charles S., assignor to Chesire Watch Company, Chesire, Conn. Manufacture of watch-balances.....	325,605	Sept. 1	514	129	32	1113
Guernsey, Elmer E. (See Race and Guernsey.)						
Guerrand, René, assignor to C. J. P. Barrez, New York, N. Y. Machine for forming raised ornaments by threads on fabrics.....	322,537	July 21	1521	401	32	293
Gues, Sanford L., Hazlehurst, Miss. Steam-engine.....	313,662	Mar. 17	1127	303	30	1003
Guest, John H., Brooklyn, N. Y. Telephonic transmitter.....	311,979	Feb. 10	709	194	30	457
Guffin, Andrew J., and M. C. Rushville, Ind. Washing-machine.....	310,507	Jan. 6	438	121	30	85
Guffin, Matilda C. (See Guffin, Andrew J., and M. C.)						
Guggenheims' Sons, M. (See Woodley, Henry J., assignor.)						
Guhl, Heinrich A. H., Hamburg, Germany. Type-writing machine.....	318,426	May 19	2004	{ 539 540 }	31	908
Guhl, Louis C., Roseland, Ill. Clothes-line holder.....	318,182	May 19	1676	449	31	849
Gühring, Ludwig, and W. Köhrer, Stuttgart, Württemberg, Germany. Apparatus for warming and disinfecting closet-tubes.....	327,945	Oct. 6	567	147	33	102
Gulbert, John C. N. (See Vose, Richard, assignor.)						
Gulbert, Frank P., Franklin, Mass. Tag-attaching device.....	318,614	May 20	2260	603	31	963
Gulbert, J. Murray, assignor to W. H. Hart, Jr., Philadelphia, Pa. Neck-wear tip.....	323,995	Sept. 22	2291	599	32	1456
Gulbert-Martin, Auguste, St. Denis, France. Glass tube for water-gages.....	332,920	Dec. 22	2417	639	33	1452
Guild, Frederick. (See Lord, Tyler C., assignor.)						
Guild & Garrison. (See Worthen, William H., assignor.)						
Guild, George M. (See Rogers, Charles E., assignor.)						
Guild, George M., Boston, Mass. Music-rack for upright pianos.....	313,417	Mar. 3	536	138	30	875
Guild, Walter B., Boston, Mass. Balance weighing-scale.....	326,975	Sept. 29	2385	624	32	1481
Gulley, Jacob H., assignor of one-third to J. E. Wright, East Saginaw, Mich. Piston-rod packing.....	323,320	July 28	2617	695	32	499
Gulford, Joseph H. N., Whigham, Ga. Fish-plate-fastening machine.....	313,418	Mar. 3	527	{ 134 135 }	30	875
Gulford, Lucian H., Wansee, Ohio. Sack-holder.....	314,930	Mar. 31	2576	682	30	1395
Guillaume, Henri, Washington, D. C. Sleeping-car.....	331,233	Nov. 24	2409	{ 632 633 }	33	924
Guillois, John F. (See Jeanjaquet, F. Eugene, assignor.)						
Gulterman, Leopold A., St. Paul, Minn. Overalls.....	328,025	Oct. 13	674	177	33	129
Gulickson, George, Chicago, Ill. Furnace.....	310,522	Jan. 13	545	170	30	110
Gulickson, George, Chicago, Ill. Grate for furnaces.....	318,467	May 26	2054	555	31	927

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*Gullman, C. (See Riker, Carroll L., assignor.)						
*Gumbinner, Paul, New York, N. Y. Device for stopping runaway horses	323,888	Aug. 4	682	175	32	640
*Gummer, Albert, Omro, Wis. Vehicle-spring	323,924	July 28	2054	543	32	397
*Gummerson, Albert E. (See Riggins and Gummerson.)						
*Gundlach, Hermann. (See Horn and Gundlach.)						
*Gundlach, Philip M., Belleville, Ill. Grain-drill fluke	329,036	Oct. 27	2051	532	33	305
*Gunn, John C., assignor of one-half to H. N. Saxton, Jr., Knoxville, Tenn. Fruit-drier	331,294	Dec. 1	54	13	33	1009
*Gunning, James F. J., New Haven, Conn. Sewing-machine binder	316,359	Apr. 21	1891	500	31	353
*Gunning, James F. J., Toronto, Ontario, Canada. Stiffener for corsets, &c	321,289	June 30	3154	841	31	1655
*Gunning, Thomas, and J. Quigley, New Haven, Conn. Water-closet	319,974	June 16	1380	362	31	1315
*Günther, Frederic A. R., Toronto, Ontario, Canada. Stringing pianos	327,439	Sept. 29	2995	783	32	1598
*Günther, Julius, Nakel, Prussia, Germany. Lubricator	321,597	July 7	259	69	32	49
*Gupfll, Winslow W., Boston, Mass., assignor to Hartford Fruit Jar Company, Hartford, Conn. Stopper for jars, &c	326,641	Sept. 22	1890	496	32	1385
*Gurley, Lewis E. (See Gurley, William, assignor.)						
*Gurley, William, assignor to himself and L. E. Gurley, Troy, N. Y. Rod-plumbing level	312,266	Feb. 17	1100	304	30	568
*Gurney, Edward, and C. Sellers, Toronto, Ontario, Canada. Steam and water boiler	324,314	Aug. 11	1942	338	32	768
*Gurney, Edward, and C. Sellers, Toronto, Ontario, Canada. Furnace	324,315	Aug. 11	1944	338	32	768
*Gurney, Robert, Kirkwood, Mo. Drag-saw	322,596	July 21	1602	423	32	307
*Gurney, Worth H., assignor of one-half to J. P. Rummel, Mansfield, Ohio. Suspenders	330,319	Nov. 10	1194	319	33	742
*Gushwa, Jacob. (See Anderson, John A. E., assignor.)						
*Guss, Jacob A., Spring City, Pa. Cashier's and salesman's check-book	310,508	Jan. 6	439	121	30	85
*Guss, Samuel M., Reading, Pa. Tag	321,295	July 7	668	173	32	121
*Guss, Samuel M., assignor of one-half to J. S. Ammon, Reading, Pa. Nut-lock	310,616	Apr. 28	2245	591	31	426
*Guss, Samuel M., assignor of one-half to J. S. Ammon, Reading, Pa. Bearing and bush	317,993	May 19	1432	364	31	803
*Guss, Samuel M., assignor of one-half to J. S. Ammon, Reading, Pa. Binder for roll-couplings	319,240	June 2	373	99	31	1118
*Guss, Samuel M., assignor of one-half to J. S. Ammon, Reading, Pa. Shear-blade for hot blooms, bars, &c	325,673	Sept. 8	607	154	32	1135
*Gustafson, Nels A., Leadville, Colo. Device for cleaning ship-bottoms	313,822	Mar. 10	1063	274	30	963
*Gustavel, Louis, Jr., Delphi, Ind. Hame-tug	323,321	July 28	2618	696	32	499
*Gut, Felix, Hottingen, near Zurich, Switzerland. Drilling-machine	328,446	Oct. 20	1810	472	33	345
*Gutenkunst, Charles A., Milwaukee, Wis. Hay-fork	324,636	Aug. 25	1961	538	32	910
*Guth, Frank J., Chicago, Ill. Device for exhibiting collars, scarfs, &c	319,406	June 2	570	157	31	1157
*Guth, Henry, New York, N. Y. Hydrometer	317,453	May 5	717	180	31	653
*Guthrie, D. A., et al. (See Osborn, James F., assignor.)						
*Guthrie, Frank A., Gallipolis, Ohio. Machine for making metallic roofing	318,559	May 26	2198	587	31	851
*Guthrie, Frank A., Gallipolis, Ohio. Metallic roofing	324,594	Aug. 25	2178	596	32	949
*Guthrie, J. G., et al. (See Osborn, James F., assignor.)						
*Guthrie, James F., Somerville, Mass. Pipe-wrench	310,818	Jan. 13	840	228	30	165
*Guthrie, James F., Jr., Cambridge, Mass. Pipe-wrench	320,872	June 23	2605	680	31	1549
*Guthrie, Lewis, Waterloo, Ind. Double plow	329,831	Nov. 3	551	141	33	607
*Guthrie, Thomas J., et al. (See Vaughan, Elbert J., assignor.)						
*Guthrie, William A. (See Underwood, Joseph B., assignor.)						
*Gutta Percha and Rubber Manufacturing Company. (See Peare, George R., assignor.)						
*Guy, Benjamin F., et al. (See Baden, Thomas E., assignor.)						
*Guyer, Allan P., Philadelphia, Pa. Gas-burner	314,376	Mar. 24	1808	481	30	1140
*Guyer, Isaac D., New York, N. Y. Apparatus for the manufacture of illuminating-gas	328,400	Oct. 13	1172	303	33	222
*Guyton, Albert M., Broad Top, Pa. Tobacco-box	324,105	Aug. 11	942	259	32	706
*Gwinn, James W., Providence, R. I. Finger-ring	323,322	July 28	2619	696	32	500
*Gwynne, John, London, England. Portable steam pumping-engine	326,642	Sept. 23	1891	496	32	1385
*Gype, Christian. (See Gype, John and C.)						
*Gype, John and C., Tedrow, Ohio. Cider-press	310,372	Jan. 6	149	41	30	30
*Haack, Rudolph, Stettin, Prussia, Germany. Carriage for machine-guns	319,241	June 2	374	99	31	1118
*Haacker, John F. (See Machris and Haacker.)						
*Haaf, Edmunds W., Brooklyn, N. Y. Bag	327,255	Sept. 29	2754	715	32	1547
*Haak, George E., et al. (See MacLean, Daniel J., assignor.)						
*Haak, Henry, Prescott, Pa. Gathering and shipping can	323,931	Aug. 11	710	199	32	664
*Haak, Henry, Prescott, Pa. Creaming-can	328,496	Sept. 15	1610	419	32	1327
*Haak, Thomas E., Womelsdorf, Pa. Egg-beater, batter-mixer, and churn	325,674	Sept. 8	608	154	32	1135
*Haas, Edwin, Philadelphia, Pa. Bottle and jar stopper and fastener	313,588	Mar. 10	752	196	30	996
*Haas, Edwin, Philadelphia, Pa. Watch-case	321,021	June 30	2814	748	31	1594
*Haas, Harry L., assignor to Zucker & Levett Chemical Company, New York, N. Y. Polishing composition	331,632	Dec. 1	592		33	1101
*Haas, Jackson O., Hepler, Pa. Lath	325,832	Sept. 8	830	207	32	1174
*Haas, James M., et al. (See Blair, George W., assignor.)						
*Haas, James M., Wabash, Ind. Tongue-support	329,899	Nov. 10	647	165	33	633
*Haas, Levi, Chester, Pa. Railway-tie	315,771	Apr. 14	1109	291	31	208
*Haas, Levi, Chester, Pa. Fertilizer	318,371	May 19	1931		31	896
*Haas, Levi, Chester, Pa. Fertilizer	327,256	Sept. 29	2756		32	1547
*Haas, Mathias, St. Goergen, Baden, Germany. Clutch-coupling	310,996	Jan. 20	1090	298	30	216
*Haas, Philip M., Youngstown, Ohio. Shafting	332,076	Dec. 8	1230	321	33	1227
*Haas, Philip M., assignor of one-half to Andrews Bros. & Co., Youngstown, Ohio. Manufacturing rolled and polished shafting	332,075	Dec. 8	1228	320	33	1226
*Haas, Samuel H. (See Klenk, John, assignor.)						
*Haas, Samuel H. (See Klenk and Haas.)						
*Haas, William W., Farmer City, Ill. Coin counter and tester	314,330	Mar. 24	1750	466	30	1128
*Habenicht, Charles R. H. M., assignor to Tin-Plate Decorating Company, New York, N. Y. Apparatus for cooling tin plates in crystallization	323,806	Aug. 4	544	155	32	626
*Haberkorn, Theodore H., Fort Wayne, Ind. Spark and cinder arrester	310,619	Jan. 13	841	228	30	165
*Haberkorn, Theodore H., Fort Wayne, Ind. Car-axle-box lid	310,620	Jan. 13	843	229	30	165
*Habermann, Rudolph, Berlin, Germany. Absorption freezing-machine	321,965	July 14	763	199	32	147
*Haberstroh, Albert, et al. (See Olsen, Adolph, assignor.)						
*Hack, Ferdinand, Chicago, Ill. Bridge-gate	332,077	Dec. 8	1233	321	33	1227
*Hack, Henry Sattley, Birmingham, county of Warwick, and F. Ley, Barrow-on-Trent, county of Derby, England. Apparatus for receiving and conveying away coke drawn from gas-retorts	323,323	July 28	2620	696	32	500
*Hackell, George E. (See Raabe and Hackell.)						
*Hackett, William H., assignor to W. S. Thomson, Atlanta, Ga. Cotton-planter	330,393	Nov. 17	1310	348	33	770
*Hackley, Samuel R., Crockett's Station, Cal. Hose-coupling	310,672	Jan. 13	856	180	30	130
*Hackman, Herman H., and T. P. Walter, Vincennes, Ind. Machine for boring gun-barrels	327,160	Sept. 29	2634	665	32	1583

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Hackworth, James T., <i>et al.</i> (See Briggs, Alfred, assignor.)						
Hadden, William, Brooklyn, N. Y. Railway signaling apparatus	312,637	Feb. 24	1594	436	30	669
Hadden, William, Brooklyn, N. Y. Telephone	312,841	Feb. 24	1886	517	30	721
Hadden, William, Brooklyn, N. Y. Telephone	312,842	Feb. 24	1886	517	30	723
Hadden, William, Brooklyn, N. Y. Telephone-switch	312,843	Feb. 24	1887	517	30	723
Hadden, William, Brooklyn, N. Y. Railway signaling apparatus	315,772	Apr. 14	1110	992	31	208
Hadden, William, Brooklyn, N. Y. Railway signaling apparatus	317,994	May 19	1433	384	31	803
Hadden, William C., New York, N. Y. Shutter for photographic cameras	321,404	Dec. 1	338	91, 92	32	1058
Hadden, William J., Danville, Ill. Car-coupling	312,114	Feb. 10	885	241	30	520
Haden, John J., and W. S. Gobble, Texarkana, Ark. Steam cooking apparatus	325,335	Sept. 1	139	38, 39	32	1041
Hadesty, George W., Drifton, Pa. Combined weather-strip and door-stop	319,490	June 9	708	190	31	1188
Hadley, Amos, Washington, D. C. Hand-blottor	327,257	Sept. 29	2756	715	32	1547
Hadley, Benjamin H., Providence, R. I. Drilling-lathe	314,574	Mar. 31	2092	556	30	1216
Hadley, Charles E., assignor to E. E. Garvin & Co., New York, N. Y. Compound milling-machine	330,581	Nov. 17	1543	{ 413 414 }	{ 33 33 }	{ 815 815 }
Hadley, Charles F. (See Overman and Hadley.)						
Hadley, Charles F., assignor to Overman Wheel Company, Chicopee, Mass. Pedal for velocipedes	313,323	Mar. 3	412	103	30	852
Hadley, Charles F., assignor to Overman Wheel Company, Chicopee, Mass. Tricycle	313,863	Mar. 17	1128	293	30	1003
Hadley, Charles F., Chicopee, assignor to Overman Wheel Company, Boston, Mass. Bicycle	331,295	Dec. 1	55	13	33	1009
Hadley, George C., Mumford, N. Y. Car-step	315,024	Apr. 7	50	11	31	11
Hadley, George W., Chicopee Falls, Mass. Implement for capping and uncapping cartridge-shells	310,583	Jan. 13	547	150	30	111
Hadley, John, Alexandria, Va. Tuyere-iron	812,628	Feb. 24	1595	437	30	670
Hadwen, William E., <i>et al.</i> (See Westgate, Joseph D., assignor.)						
Haendle, Conrad, New York, N. Y. Side spring for vehicles	312,844	Feb. 24	1888	517	30	722
Haenichen, Friedrich and O., Philadelphia, Pa. assignors to themselves, and O. Seebass, New York, N. Y. Electric pendulum clock	316,360	Apr. 21	1893	501	31	356
Haenichen, Otto. (See Haenichen, Friedrich and O.)						
Haerr, Philip, <i>et al.</i> (See Wells, Frank R., assignor.)						
Haerry, Paul, New York, N. Y. Induction-machine	316,143	Apr. 21	1619	424	31	307
Haessler, Henry, New York, N. Y. Carriage prop-block	327,978	Oct. 6	614	160	33	111
Hafely, Alfred C., New York, N. Y. Clasp for books	317,123	May 5	258	64	31	570
Haff, Edward P., Brooklyn, N. Y. Corkscrew	315,773	Apr. 14	1111	292	31	208
Haff, Edward P., Brooklyn, N. Y. Corkscrew	317,123	May 5	259	65	31	571
Haff, Joel P., <i>et al.</i> (See Murphy, Daniel H., assignor.)						
Hafley, Adam H., assignor of one-half to P. A. Carter, Ashley, Ill. Oscillating engine	314,932	Mar. 31	2578	682	30	1305
Hafner, Frederick J., Philadelphia, Pa. Manufacture of imitation jewelry	330,230	Nov. 10	1080	285	33	719
Hagan, John A., deceased; J. F. Thomas administrator, and assignor to Sheffield Velocipede Car Company, Three Rivers, Mich. Car-wheel	332,119	Dec. 8	1301	337	33	1239
Hagan, William E. (See Norris and Hagan.)						
Hagan, William E., and G. E. Norris, Troy, assignors of one-third to J. K. P. Pine, Lansingburg, N. Y. Apparatus for dipping matches	331,129	Nov. 24	2258	{ 613 614 }	{ 33 33 }	{ 957 957 }
Hagans, James, Maxwell, Ind. Post-hole auger	326,976	Sept. 29	2385	624	32	1481
Hagar, Edward F., <i>et al.</i> (See Barron, John W., assignor.)						
Hageman, Randolph F., New Madison, Ohio. Gate	315,274	Apr. 7	408	101	31	74
Hagemann, Henry, Chicago, Ill. Window-platform	326,977	Sept. 29	2386	624	32	1481
Hagen, Arthur T., Rochester, N. Y. Ironing-machine	326,556	Sept. 22	1770	463	32	1385
Hagen, Augustus A., assignor of one-half to M. Hagen, New York, N. Y. Protecting-screen for air and light shafts	323,576	Aug. 4	251	74	32	568
Hagen, Ludwig, Magdeburg, Prussia, Germany. Drier	330,018	Nov. 10	808	207	33	662
Hagen, Macarius. (See Hagen, Augustus A., assignor.)						
Hagen, Sivert, New Brighton, N. Y. Foot-boat	319,842	June 2	374	100	31	1118
Hagenbacher, Isidor S., and A. Strauss, Brooklyn, N. Y. Hoop for barrels, &c.	324,081	Aug. 11	230	230	32	635
Hagenberg, William, Toledo, Ohio. Dust-arrester	333,217	Dec. 29	2841	743	33	1534
Hagenbüchle, John B., New York, N. Y. Quilting-machine	317,995	May 19	1434	{ 384 385 }	{ 31 31 }	{ 804 804 }
Hagenbüchle, John B., New York, N. Y. Quilting-machine	317,996	May 19	1436	385	31	804
Hagenbüchle, John B., New York, N. Y. Quilting-machine	325,799	Sept. 8	783	{ 197 198 }	{ 32 32 }	{ 1166 1166 }
Hager, Alphonso W. (See Currey, Edward C., assignor.)						
Hager, Charles. (See Batt, John B., assignor.)						
Hagerty, John C. (See Woods, William A., assignor.)						
Hagerty, John C., Santa Cruz, Cal. Bark-cutting machine	332,796	Dec. 22	2249	583	33	1420
Hagerty, John C., Santa Cruz, Cal. Bark-cutter	332,797	Dec. 22	2250	593	33	1420
Haggas, Fred, New York, N. Y. Thread-breaking attachment for doubling and twisting machines	332,512	Dec. 15	1839	482	33	1339
Hagge, Henry. (See Petersen, Harksen, and Hagge.)						
Haggett, George W., Chicago, assignor of one-half to J. A. Cook, Englewood, Ill. Tag-holder for railway-cars	320,355	June 16	1927	508	31	1412
Hagler, John W., <i>et al.</i> (See Wingo, Robert A., assignor.)						
Hagmeyer, John A. (See Schaefer, John C., assignor.)						
Hahl, Augustus, and O. Mergenthaler, Baltimore, Md. Pneumatic clock	314,014	Mar. 17	1333	348	30	1042
Hahlweg, Carl, Stettin, Prussia, assignor to Gebrüder Zungbana, Schramberg, Würtemberg, Germany. Clock-striking mechanism	323,577	Aug. 4	252	74	32	569
Hahn, Albert K. (See Lacrone and Hahn.)						
Hahn, Charles. (See Meuze, Friedrich W., assignor.)						
Hahn, John, <i>et al.</i> (See Orr and Selward, assignors.)						
Hahn, John A., Moscow, Iowa. Cultivator	313,589	Mar. 10	753	199	30	826
Haid, Alfred, Rahway, N. J. Electric jewelry	313,726	Mar. 10	930	241	30	960
Haid, Alfred, Rahway, N. J., assignor to Excelsior Electric Apparatus Company, New York, N. Y. Electric battery	315,937	Apr. 14	1333	347	31	248
Haid, Alfred, Rahway, N. J., assignor to Excelsior Electric Apparatus Company, New York, N. Y. Galvanic battery	315,938	Apr. 14	1334	347	31	248
Haid, Alfred, Rahway, N. J., assignor to Excelsior Electric Apparatus Company, New York, N. Y. Electric-lamp holder	321,493	July 7	113	30	32	23
Haigh, George, <i>et al.</i> (See Manuel, David, assignor.)						
Haigh, Samuel, Coquitlam, New Westminster, British Columbia, Canada. Boiler-feeder	319,708	June 9	995	263	31	1240
Haigh, Henry J., New York, N. Y. Poultry-coop	326,113	Sept. 15	1183	303	32	1248
Haigh, James K. (See Babcock, Sylvester P., assignor.)						
Haigh, Jonathan, Pittsfield, Mass. Staple	312,460	Feb. 17	1373	379	30	620
Haigh, Wilson. (See Durkee, George B., assignor.)						
Haines, Alvin S., Slattington, Pa. Mail-bag	323,670	Aug. 4	376	108	32	583

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Haines, George W. (See Vincent, George, assignor.)						
Haines, James M. (See Pascoe, Haines, and Butland.)						
Haines, John H. J., and J. F. Strong, Flushing, N. Y. Automatic safety gas-burner	325,928	Sept. 8	937	237	32	1196
Haines, John W., Cambridge, Mass. Securing shanks to glass knobs	314,828	Mar. 31	2437	643	30	1281
Hainsworth, Frederick, Chicago, Ill. Refrigerator	331,296	Dec. 1	56	13, 14	33	1009
Hainsworth, William, Pittsburg, Pa. Forging-plant	317,767	May 12	1117	{ 294 295 }	31	735
Hainsworth, William, Pittsburg, Pa. Mold for casting rolls and other articles	323,807	Aug. 4	545	153	32	626
Hair, Benjamin M., Chicago, Ill. Belt-punch	311,121	Jan. 20	1265	346	30	247
Hair, Charles N. (See Wood, Aurin, assignor.)						
Hair, John, Crittenden, N. Y. Potato-planter	311,312	Jan. 27	1549	422	30	305
Haish, Jacob, De Kalb, Ill. Barb fence-wire	332,252	Dec. 15	1486	398	31	1277
Haish, Jacob, De Kalb, Ill. Barbed fence	332,393	Dec. 15	1680	440	33	1312
Haltheck, John D., and W. T. Suit, Wilton, N. C. Leveling-instrument	333,009	Dec. 22	2550	671	33	1475
Haltz, Frederick, Towanda, Ill. Umbrella-support	314,290	Mar. 24	1094	452	30	1117
Haltz, Frederick, Towanda, Ill. Umbrella	326,213	Sept. 15	1331	344	32	1275
Haltz, Frederick, Towanda, Ill. Umbrella-support	326,213	Sept. 15	1331	345	32	1275
Hake, Francis A., Cuero, Tex. Hame-fastener	327,258	Sept. 29	2757	715	32	1547
Hake, Philipp. (See Raisbeck, George A., assignor.)						
Hakes, Frank M., Martelle, Iowa. Harrow	317,768	May 12	1120	295	31	736
Hakins, George B., assignor of one-half to H. G. Pert, Norwood, N. Y. Ornamental screw-head cap	311,122	Jan. 20	1266	346	30	247
Hakins, George B., assignor of one-half to H. G. Pert, Norwood, N. Y. Mechanical musical instrument	315,774	Apr. 14	1113	292	31	509
Hakins, George B., assignor of one-half to H. G. Pert and H. M. Kinsman, Norwood, N. Y. Apparatus for preserving eggs	333,060	Dec. 22	2624	688	33	1488
Hale, Albert W. (See Conradson, Pontus H., assignor.)						
Hale, Bernice S., and J. B. Malden, Mass. Friction device for spools in cordage and twine making machines	325,336	Sept. 1	141	39	32	1041
Hale, Elias J., Foxcroft, Me. Burner for lamps	312,367	Feb. 17	1102	304	30	568
Hale, Emma V. W. (See Nichols and Hale.)						
Hale, Francis W., Boston, Mass. Tuning hammer	310,673	Jan. 13	657	180	30	131
Hale, Frank W., Boston, Mass. Tuning implement	310,674	Jan. 13	658	180	30	131
Hale, George C., Kansas City, Mo. Suspender	323,416	Aug. 4	44	11	32	331
Hale, George C., Kansas City, Mo. Device for suspending harness	330,320	Nov. 10	1195	{ 319 320 }	33	742
Hale, Henry S., Philadelphia, Pa. Folding bed	330,693	Nov. 17	1626	455	33	844
Hale, Henry S., Philadelphia, Pa. Flexible curtain and material therefor	333,408	Dec. 29	3008	{ 507 508 }	33	1577
Hale, James B. (See Hale, Bernice S. and J. B.)						
Hale, James F., Stephenville, Tex. Churn-dasher	317,124	May 5	260	65	31	571
Hale, John, Scranton, Pa. Surveying-instrument	313,494	Mar. 10	633	164	30	903
Hale & Kilburn Manufacturing Company. (See Cobb, Henry B., assignor.)						
Hale, Nelson T., Cummington, Mass. Thill-coupling	326,263	Sept. 22	2231	582	32	1446
Hale, Roswell W., assignor to A. Trudo and J. K. Saunders, West Bay City, Mich. Automatic bridge-gate	323,034	July 28	2217	586	32	425
Hale, Samuel, Bloomfield, N. J. Crib, settee, and lounge	320,651	June 23	2134	617	31	1496
Hale, Samuel, Bloomfield, N. J. Saw-frame	327,792	Oct. 6	375	97	33	66
Hale, Thomas D. (See Lowe, Austin, assignor.)						
Hale, William E. (See Baldwin, Cyrus W., assignor.)						
Hale, William P., Brockport, N. Y. Harvester	325,208	Aug. 25	2450	{ 674 675 }	32	1001
Hale, William T. (See Chinn, George W., assignor.)						
Hale, Willis G., Philadelphia, Pa. Window-blind	331,130	Nov. 24	2260	614	33	957
Hales, H. W. (See Hales, Henry, assignor.)						
Hales, Henry, assignor to H. W. Hales, Ridgewood, N. J. Wood-filler	317,125	May 5	261		31	571
Haley, Charles H. (See Burnham and Haley.)						
Haley, Christina J., New York, N. Y. Attachment for sleeve, hose, and garment supporters	320,469	June 23	2096	553	31	1452
Haley, Christina J., New York, N. Y. Hose, sleeve, and garment supporter	320,470	June 23	2097	553	31	1452
Haley, Daniel F., et al. (See Okey, Joseph B., assignor.)						
Haley, Jonathan, Ravenna, Ohio. Glass tile and making the same	331,395	Dec. 1	196	51	33	1033
Haley, Jonathan, assignor to Eureka Patent Glass Mold Company, Ravenna, Ohio. Mold for pressing glassware	328,482	Oct. 20	1272	330	33	247
Haley, Rucluff D., Terre Haute, Ind. Eye-remedy	318,468	May 26	2056		31	928
Haley, Sam, Bramley, near Leeds, England. Leather-dressing machine	325,675	Sept. 8	609	{ 154 155 }	32	1135
Haley, Thomas, Cambridge, Mass. Self-closing faucet	319,577	June 9	825	219	31	1209
Halford, Andrew J. (See Woodward, James A., assignor.)						
Halfpenny, Caroline D., Bloomsburg, Pa. Trellis	317,939	May 12	1349	363	31	720
Hahn, Ole E., San Francisco, Cal. Derrick	314,015	Mar. 17	1337	348	30	1042
Hall, Alanson M. (See Wisner, Fred, assignor.)						
Hall, Albert, Cypress Hill, N. Y. Automatic button-fastening machine	315,275	Apr. 7	409	102	31	74
Hall, Albert, Richmond, Ind. Roller-skate	321,220	June 30	3155	841	31	1656
Hall, Alfred W., Presque Isle, Me. Fire-kindler	318,246	May 19	1759	470	31	864
Hall, Alvah W., Meriden, Conn. Electric burglar-alarm	315,159	Apr. 7	260	49	31	36
Hall, Alvah W., Meriden, Conn. Burglar-alarm	315,140	Apr. 7	265	50	31	38
Hall, Alvah W., assignor to Hall Railway Signal Company, Meriden, Conn. Circuit for electric switch-signals	315,498	Apr. 14	721	191	31	135
Hall, Alvin O., New York, N. Y. Inking-ribbon alarm for type-writing machines	314,016	Mar. 17	1338	348	30	1043
Hall, Arthur H., Chicago, Ill. Map rack	325,337	Sept. 1	142	39	32	1062
Hall, Benjamin F., Newburyport, Mass. Heel for boots or shoes	316,456	Apr. 28	2047	537	31	388
Hall & Carpenter. (See Henis, William G., assignor.)						
Hall, Charles, New York, N. Y., and J. Young, Newark, N. J., assignors to said Hall. Bolt-machine	317,642	May 12	959	{ 246 247 }	31	705
Hall, Charles B., New York, N. Y. Attachment for leveling billiard-tables	331,297	Dec. 1	57	14	33	1009
Hall, Charles H., and J. E. Tripp, assignors to Chicago Sewing Machine Company, Chicago, Ill. Folding chair	330,231	Nov. 10	1081	{ 225 226 }	33	719
Hall, Charles S., A. B. Clemence, and H. F. A. Setterwall, Worcester, Mass. Drawing wire	325,800	Sept. 8	790		32	1167
Hall, De Witt C., New York, N. Y. Dress-shield	331,963	Dec. 8	1064	276	33	1198
Hall, E. et al. (See Ellis, Oliver J., assignor.)						
Hall, Edgar, Boston, Mass. Roller-skate	318,723	May 26	2399	640	31	989
Hall, Edgar, Cambridge, Mass., assignor to Hall Roller Skate Company, Nashua, N. H. Roller-skate. (Reissue.)	10,664	Nov. 24	2470	666	33	994

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Hall, Edgar L., Kimmewick, Mo. Straw-carrier	321,210	June 30	3060	812	31	1639
Hall, Edward H., Brooklyn, N. Y. Screw-propelling apparatus for steam-vessels	332,709	Dec. 22	2143	566	33	1399
Hall, Edward H., Brooklyn, N. Y. Screw-propeller	332,710	Dec. 22	2144	566	33	1399
Hall, Edward S., New York, N. Y. Cabinet-bedstead	328,214	Oct. 13	913	238	33	174
Hall, Enos T., assignor to G. A. Highfield, Scranton, Pa. Car-coupling	328,584	Oct. 20	1411	{ 367 368 }	{ 33 33 }	272
Hall, Eugene E., Troy, assignor of two-thirds to F. C. Huyck and C. E. Argersinger, Albany, N. Y. Cloth boot	311,123	Jan. 20	1267	317	30	247
Hall, F. Rockwood. (See Dearborn, Wyman, assignor.)						
Hall, Frank E., assignor to Hall Rubber Company, Boston, Mass. Manufacturing water-proof fabrics	320,781	June 23	2491	660	31	1527
Hall, George D. (See Heed and Hall.)						
Hall, George E., New York, N. Y. Boiler-feeder	317,532	May 12	816	210	31	680
Hall, George F., and G. M. Lane, Asbury Park, N. J. Washing-machine	331,633	Dec. 1	593	146	33	1101
Hall, George F., and G. M. Lane, Asbury Park, N. J. Chair	331,634	Dec. 1	595	147	33	1101
Hall, Giles, East St. Louis, Ill. Roofing-shingle	318,724	May 26	2400	640	31	989
Hall, Harvey B., Homer, Ill. and F. G. Powers, South Bend, Ind. Plastering device	330,321	Nov. 10	1198	320	33	743
Hall, Harvey N., assignor of one-half to U. W. Armstrong, Evansville, Ind. Table-corner	319,903	June 9	1275	338	31	1289
Hall, Hayden H., New Hamburg, N. Y. Apparatus for laying submarine tunnels and tubes	311,556	Feb. 3	260	72	30	307
Hall, Henry, assignor to himself and W. S. Flaok, Lansingburg, N. Y. Valve	310,509	Jan. 6	440	121	30	86
Hall, Henry, assignor to Rensselaer Manufacturing Company, Lansingburg, N. Y. Straight-way stop-valve	318,894	May 26	2635	699	31	1031
Hall, Henry, assignor to Rensselaer Manufacturing Company, Lansingburg, N. Y. Straight-way stop-valve	330,322	Nov. 10	1199	320	33	743
Hall, Henry M., Philadelphia, Pa. Joint for pipes, &c.	327,793	Oct. 6	376	97	33	66
Hall, Hiram S., Jam-stown, assignor to A. Cary and E. F. Moen, New York, N. Y. Machine for securing the ends of spiral springs	313,495	Mar. 10	634	165	30	904
Hall, I., et al. (See Ellis, Oliver J., assignor.)						
Hall, Isaac, Brooklyn, N. Y. Violin	322,925	July 28	2054	543	32	397
Hall, James B. (See Hall, Thomas P. and J. B.)						
Hall, James T., St. Louis, Mich. Lath-sawing machine	321,716	July 7	409	109	32	76
Hall, Jennison C., Providence, R. I. Check-book	320,782	June 23	2493	660	31	1527
Hall, John, Philadelphia, Pa. Drifting device for lathes	320,652	June 23	2236	{ 617 618 }	{ 31 31 }	1497
Hall, John L., Colony, Kans. Alarm attachment for baling-presses	322,926	July 28	2056	543	32	397
Hall, John S., New York, N. Y. Feed-lubricator	322,927	July 28	2057	543	32	397
Hall, Joseph L. (See Corry, William, assignor.)						
Hall, Joseph L. (See Pund, Henry, assignor.)						
Hall, Joseph P. (See Cushman and Hall.)						
Hall, Luther, assignor of one-half to H. C. Willis, Boston, Mass. Tricycle	318,725	May 26	2401	640	31	990
Hall, Major, and J. C. Ryan, St. Paul, Minn. Thill-coupling	324,877	Aug. 25	1962	539	32	910
Hall, Moses L., Leon, Iowa. Buckle	330,232	Nov. 10	1082	286	33	719
Hall, Oliver S., et al. (See Main, Oscar F., assignor.)						
Hall, Osborn B., Malden, Mass. Fusible link for automatic fire-extinguishers	324,316	Aug. 11	1244	338	32	762
Hall, Osborn B., Malden, assignor of one-half to C. C. Walworth, Boston, Mass. Valve	327,875	Oct. 6	474	124	33	84
Hall, Osborn B., Malden, assignor of one-half to C. C. Walworth, Boston, Mass. Automatic fire-extinguishing apparatus	327,876	Oct. 6	475	124	33	84
Hall Railway Signal Company. (See Hall, Alvah W., assignor.)						
Hall Roller Skate Company. (See Hall, Edgar, assignor.) (Reissue.)						
Hall Rubber Company. (See Hall, Frank E., assignor.)						
Hall, Samuel D., et al. (See Watson, Charles S., assignor.)						
Hall, Samuel L., Chicago, Ill. Baker's oven	322,282	July 14	1170	307	32	222
Hall, Thomas, Auburndale, Mass. Clamp for rope halters	315,614	Apr. 14	895	234	31	106
Hall, Thomas, Lawrence, Mass. Bobbin	330,784	Nov. 17	1804	486	33	865
Hall, Thomas G., Brooklyn, N. Y. Vise	311,487	Feb. 3	36	10	30	356
Hall, Thomas W. (See Thayer, Anson P., assignor.)						
Hall, Thursten G., Niagara Falls, N. Y. Steam-boiler	331,495	Dec. 1	340	92	33	1059
Hall, Thomas P., Toronto, Canada. Fire-escape	310,675	Jan. 13	659	181	30	131
Hall, Thomas P. and J. B., Toronto, Canada. Tricycle	310,676	Jan. 13	660	181	30	131
Hall, Thomas P. and J. B., Toronto, Ontario, Canada. Tricycle	325,338	Sept. 1	143	39	32	1042
Hall, Walter F., Clinton, Mo. Car-coupling	330,233	Nov. 10	1083	286	33	720
Hall, Washington I., Chester, N. Y. Refrigerator	317,126	May 5	262	65	31	571
Hall, William. (See Midgley and Hall.)						
Hall, William, et al. (See Midgley, John, assignor.)						
Hall, William, Waterbury, Conn. Buoyant propeller for steamboats	331,496	Dec. 1	341	92	33	1059
Hall, William A. (See White, Edward F., assignor.)						
Hall, William D., assignor to J. Foster & Co., Beloit, Wis. Machine for embossing and ornamenting boot or shoe soles	315,775	Apr. 14	1114	292	31	209
Hall, William D., assignor to J. Foster & Co., Beloit, Wis. Shoe	317,127	May 5	264	66	31	571
Hall, William H., Tiffin, Ohio. Sulk-y-rake	328,070	Oct. 20	1542	401	33	295
Hall, William H., Tiffin, Ohio. Horse-rake	333,218	Dec. 29	2843	{ 743 744 }	{ 33 33 }	1532
Hall, William H., Battle Creek, Mich. Stump-extractor	328,775	Oct. 20	1663	433	33	319
Hall, William H., Brighton, county of Sussex, England. Spinning-top	323,608	Aug. 4	547	155	32	626
Hall, William H., West Brighton, county of Sussex, England. Mechanical toy animal figure	328,912	Oct. 20	1844	{ 481 482 }	{ 33 33 }	352
Hall, William J. (See Briggs, George W., assignor.)						
Hall, William L., Troy, N. Y. Boom-shirt	331,786	Dec. 8	804	204	33	1149
Hallam, A. C. (See Tillon, William R., assignor.)						
Hallenbeck, John W. (See Force, Albert W., assignor.)						
Hallenbeck, Joseph P., New York, N. Y., and H. L. Phelps, Chicago, Ill., assignors to National Machine Company, New York, N. Y. Sewing-machine for stitching button-holes, eyelet-holes, &c.	310,677	Jan. 13	661	{ 181 182 }	{ 30 30 }	132
Hallenbeck, William W., Leon, N. Y. Horsehoe	326,290	Sept. 15	1439	375	32	1295
Haller, Georg. (See Löffelhardt, Wilhelm, assignor.)						
Haller, Henry, Brooklyn, assignor to G. P. Roll, New York, N. Y. Seamless shoe	317,643	May 12	960	247	31	705
Hallert, William R., assignor of one-half to J. R. Douglas, Batchtown, Ill. Barrel-press	316,030	Apr. 21	1457	380	31	277
Halliburton, Martin J., Portageville, Mo. Combined seeder and cart	331,131	Nov. 24	2261	614	33	958
Halliday, Thomas H., Brooklyn, assignor to N. H. Van Winkle, New York, N. Y. Spring-bed	320,552	June 23	2203	582	31	1472
Halliday, George, Winnebago City, Minn. Flour-bolt	325,533	Sept. 8	831	206	32	1175
Hallidle, Andrew S., San Francisco, Cal. Endless-rope traction-railway	321,022	June 30	2215	749	31	1594
Hallidle, Andrew S., San Francisco, Cal. Gopher-trap	326,864	Sept. 22	2234	583	32	1446

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Hallidie, Andrew S., San Francisco, Cal. Tramway for curves and cable-grips.....	330,976	Nov. 24	2059	557	33	920
Halliwell, Jane. (See Lavigne, Joseph P., assignor.)						
Halliwell, Samuel. (See Lavigne, Joseph P., assignor.)						
Hallman, Isaac, et al. (See Caley, Edward L., assignor.)						
Hallock, David, New York, N. Y. Weighing-scale.....	311,745	Feb. 3	368	{ 101 102 }	30	418
Hallock, David, New York, N. Y. Weighing-scale.....	325,534	Sept. 1	430	107	32	1098
Hallock, Henry S. (See Fuller and Hallock.)						
Hallock, Valentine H., Queens, N. Y. End-thrust pad for propeller and other shafts.....	315,776	Apr. 14	1115	293	31	209
Hallock, Valentine H., Queens, N. Y. Supporter-pad for propeller and other shafts.....	315,777	Apr. 14	1116	293	31	209
Hallowell, Levi, China, Me. Ice-scraper.....	311,746	Feb. 3	371	102	30	418
Halstead, Charles, New York, N. Y. Coffee and spice mill.....	310,418	Jan. 6	334	91	30	65
Halstead, William F. (See Graham, Charles, assignor.)						
Hallwig, Arthur, Baltimore, Md. Ash-sifter.....	319,407	June 2	577	157	31	1158
Halsey, James T. (See Chapin, William G., assignor.)						
Halsey, William S., assignor to Judson Manufacturing Company, Oakland, Cal. Mower.....	320,643	Sept. 22	1882	498	32	1385
Halsted, Albert B., Hobart, N. Y. Seat-fastener.....	320,243	June 16	1736	461	31	1330
Halstenbach, August, Buffalo, N. Y. Self-acting gate.....	333,409	Dec. 29	3099	808	33	1577
Halstrom, Charlie, Los Angeles, Cal. Device for securing moldings.....	310,678	Jan. 13	664	182	30	132
Halter, Victor, assignor of one-half to F. Schneiderlochner, Pittsburg, Pa. Manufacture of axes.....	323,671	Aug. 4	378	108	32	504
Halterman, Andrew C. (See Roush and Halterman.)						
Halterman, Andrew C., New Haven, W. Va. Scaffold.....	332,893	Dec. 22	2381	629	33	1444
Ham, Albert W. (See Mosher and Ham.)						
Ham, Charles H. (See McMillan and Ham.)						
Ham, Henry H., Jr., Portsmouth, N. H. Nut-lock.....	330,394	Nov. 17	1311	348	33	771
Ham, John, New York, N. Y. Boiler-furnace.....	331,635	Dec. 1	596	147	33	1102
Ham, John, New York, N. Y. Steam-boiler furnace.....	331,636	Dec. 1	597	147	33	1102
Hamaker, Aaron W., Moundsville, W. Va. Brake-lever.....	314,331	Mar. 24	1751	467	30	1198
Hamaker, Aaron W., and J. E. Peck, Moundsville, W. Va. Horseshoe-blank.....	329,451	Nov. 3	29	0	33	510
Hamaker, Aaron W., and J. E. Peck, Moundsville, W. Va. Lifting-jack.....	330,582	Nov. 17	1546	414	33	815
Hamaker, John H., assignor of one-third to C. Ite, Canton, Ohio. Sash-fastener.....	325,834	Sept. 8	832	208	32	1175
Haman, Christian. (See Haman, Joachim H. and C.)						
Haman, Joachim H. and C., Omaha, Nebr. Earth scraper and elevator.....	320,553	June 23	2204	{ 582 583 }	31	1472
Hamann, Adolph, Grossenhain, Saxony, Germany. Rendering billiard and writing chalk unbreakable.....	330,019	Nov. 10	811		33	663
Hambay, James T., Allegheny, Pa. Railway switch and signaling apparatus.....	329,643	Nov. 3	292	74, 75	33	560
Hambay, James T., Pittsburg, Pa. Interlocking switch and signal apparatus.....	322,283	July 14	1171	{ 307 308 }	32	223
Hambay, James T., Pittsburg, Pa. Switch-stand.....	324,838	Aug. 25	1963	539	32	910
Hambay, James T., Pittsburg, Pa. Switch and signal apparatus.....	330,395	Nov. 17	1313	{ 348 349 }	33	771
Hambay, James T., Pittsburg, Pa. Grate-bar.....	330,694	Nov. 17	1689	{ 455 456 }	33	844
Hambay, James T., assignor to G. Westinghouse, Jr., Pittsburg, Pa. Fluid-regulator and cut-off.....	311,747	Feb. 3	372	102	30	418
Hambay, James T., Allegheny, assignor to Union Switch and Signal Company, Pittsburg, Pa. Switch-stand.....	318,726	May 26	2402	{ 640 641 }	31	990
Hambay, James T., Allegheny, assignor to Union Switch and Signal Company, Pittsburg, Pa. Switch-stand.....	319,709	June 9	996	263	31	1240
Hambleton, B. Franklin, Keokuk, Iowa. Furnace for roasting and smelting ores.....	332,894	Dec. 22	2382	670	33	1444
Hamburg, Peder T., Grand Rapids, Mich. Automatic fire-kindler.....	313,419	Mar. 3	529	139	30	876
Hamburgh, Gustav, Berlin, Germany. Producing a vacuum.....	323,325	July 28	2624	698	32	500
Hamburgh, Ephraim, assignor of one-fourth to M. Maier, Detroit, Mich. Hoop-lock.....	313,500	Mar. 10	755	199	30	927
Hamburger, Moses, Washington, D. C. Combined button and fastener.....	310,273	Jan. 6	150	42	30	30
Hamel, Gustavus, De Soto, Mo. School desk and seat.....	318,183	May 19	1676	450	31	849
Hamilton, Charles S., Milwaukee, Wis. Hydraulic press.....	329,551	Nov. 3	179	47	33	539
Hamilton, Clarence J., assignor of one-half to W. O. Allen, Plymouth, Mich. Stove-pipe attachment.....	331,637	Dec. 1	598	147	33	1102
Hamilton, Edward A., New Bethlehem, Pa. Car-coupling tool.....	323,672	Aug. 4	380	108	32	594
Hamilton, Emory M., assignor, by mesne assignments, to L. Goldsmith, New York, N. Y. Wire clamp and coupling.....	329,162	Oct. 27	2227	576	33	426
Hamilton, George A., assignor to Western Union Telegraph Company, New York, N. Y. Dynamo-electric machine.....	319,578	June 9	826	219	31	1210
Hamilton, J. Henry. (See Gordon and Hamilton.)						
Hamilton, James B., Boston, Mass., assignor of one-third to E. A. Ramaden, New York, N. Y. Reed.....	312,115	Feb. 10	886	241	30	521
Hamilton, Jay, South Glens Falls, N. Y. Awning-support for hammocks.....	332,607	Dec. 15	1962	519	33	1364
Hamilton, John, State College, Pa. Seed-drill.....	310,584	Jan. 13	548	151	30	111
Hamilton, John L., St. Joseph, Mo. Hot-air heating apparatus.....	311,313	Jan. 27	1551	422	30	305
Hamilton, John L., St. Joseph, Mo. Heating and ventilating apparatus.....	324,106	Aug. 11	943	{ 259 260 }	32	706
Hamilton, Joseph P., Franklin, Tenn. Back-band loop.....	314,829	Mar. 31	2438	644	30	1281
Hamilton, Lemmon, Arnold & Co. (See Frazier, George C., assignor.)						
Hamilton, Samuel, Salinas, Cal. Plowshare attachment.....	311,980	Feb. 10	710	195	30	487
Hamilton, Thomas W., Springfield, Mass. Overflow device for pump-lamps.....	326,427	Sept. 15	1611	{ 419 420 }	32	1327
Hamilton, Walter, assignor to Acme Mining Machine Company, New York, N. Y. Metal-extracting apparatus.....	311,748	Feb. 3	374	103	30	419
Hamilton, Walter, assignor to Acme Mining Machine Company, New York, N. Y. Metal-extracting apparatus.....	311,749	Feb. 3	377	103	30	419
Hamilton, Wesley W., assignor to D. D. Denton, trustee, Brooklyn, N. Y. Treating animal and vegetable fiber for textiles, cordage, &c.....	332,513	Dec. 15	1840		33	1340
Hamilton, Wesley W., assignor to D. D. Denton, trustee, Brooklyn, N. Y. Treating animal and vegetable fibers for textiles, cordage, &c.....	332,514	Dec. 15	1842		33	1340
Hamilton, Wesley W., assignor to D. D. Denton, trustee, Brooklyn, N. Y. Treatment of animal and vegetable fiber for upholstery.....	332,515	Dec. 15	1845		33	1340
Hamilton, William M., assignor of one-half to E. D. Pelton, Euclid, Ohio. Basket.....	317,454	May 5	717	180	31	653
Hamilton, William M., assignor of one-half to E. D. Pelton, Euclid, Ohio. Basket.....	317,455	May 5	718	181	31	653
Hamilton, William W., Lexington, Ky. Picket-fastening.....	321,717	July 7	410	109	32	77
Hamlen, Franklin L. (See Furbish and Hamlen.)						
Hamlin, Denslow D. (See Estes, Elihu B., assignor.)						
Hamlin, George B., Willimantic, Conn. Vehicle-spring.....	319,243	June 2	375	100	31	1118

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Hamlin, John A., et al., trustees. (See Pratt, Harry P., assignor.)	330,478	Nov. 17	1423	380	33	792
Hamlin, William P., Rogers, Ark. Bee-hive	330,245	June 16	1738	462	31	1380
Hamm, Ernest J., Jersey City, N. J. Window-shade						
Hammel, Henry A. (See Kris, Hammel, and McManus.)	330,234	Nov. 10	1084	286	33	720
Hammelmann, Charles, Buffalo, N. Y. Self-lubricating pulley						
Hammer, Carl, et al. (See Roettger, Edward C., assignor.)	328,033	Sept. 8	1079	275	32	1221
Hammer, Emil G., Brooklyn, N. Y. Electric battery	315,276	Apr. 7	411	102	31	75
Hammer, Gustav F., Cincinnati, Ohio. Testing globe-valves						
Hammer, John, and X. Kern, Jr., West Brookfield, Ohio; said Hammer assignor to said Kern. Rock-drilling machine	318,727	May 26	2404	641	31	990
Hammer, Robert E., Philadelphia, Pa. Folding couch-bed	330,479	Nov. 17	1424	399	33	792
Hammer, Thorvald F., Branford, Conn. Screw-tapping machine	321,023	June 30	2816	749	31	1594
Hammerl, Joseph, Long Island City, N. Y. Painting and graining tool	327,874	Oct. 6	473	123	33	84
Hammerle, John K., Hamilton, Ohio. Mashing apparatus	317,769	May 12	1121	285	31	736
Hammers, Frank, Hebron, Iowa. Wheel-cultivator	315,277	Apr. 7	412	102	31	75
Hammerstein, Malvine. (See Hammerstein, Oscar, assignor.)						
Hammerstein, Oscar, assignor, by means assignments, to W. Eggert, trustee, New York, N. Y. Machine for cutting cigar-wrappers	315,408	Apr. 7	584	150	31	105
Hammerstein, Oscar, assignor to M. Hammerstein, New York, N. Y. Machine for stripping leaf-tobacco	316,540	Apr. 28	2150	565	31	408
Hammick, Joseph T., Rhinebeck, N. Y. Car-coupling	321,598	July 7	260	69	32	50
Hammill, J. Milton, Philadelphia, Pa. Covering for steam-pipes	311,750	Feb. 3	378	103	30	420
Hammill, Patrick, et al. (See Cary, Charles H., assignor.)						
Hammill, Richard, Chicago, Ill. Platform for fire-escapes	316,960	May 5	41	11	31	530
Hammill, Richard, Chicago, Ill. Manufacture of coverings for steam-pipes, &c.	326,865	Sept. 22	2825	583	32	1447
Hammill, Richard, Chicago, Ill. Shutter	332,655	Dec. 15	2052	539	33	1377
Hammond, A. H. (See Tillotson, Joseph, assignor.)						
Hammond, George T., Commack, N. Y. Fence	317,344	May 5	567	145	31	627
Hammond, Henry, New Haven, Conn. Manufacture of axes	316,617	Apr. 28	2246	592	31	426
Hammond, Henry, New Haven, Conn. Ax-blank	316,618	Apr. 28	2247	593	31	427
Hammond, Henry, New Haven, Conn. Manufacture of axes	321,494	July 7	114	30	32	23
Hammond, Henry, New Haven, Conn. Forging-machine	322,928	July 28	2058	544	32	397
Hammond, Henry, New Haven, Conn. Forging-machine	322,929	July 28	2060	545	32	398
Hammond, Henry, New Haven, Conn. Forging-machine	322,930	July 28	2062	546	32	398
Hammond, Henry, New Haven, Conn. Shearing-die	326,644	Sept. 22	1893	498	32	1386
Hammond, Henry, New Haven, Conn. Forming the edges of axes	326,645	Sept. 22	1894	498	32	1386
Hammond, Hugh, Jr., et al. (See Hand, Ekins, assignor.)						
Hammond, Joseph C., Jr. (See Pullman, Herbert S., assignor.)						
Hammond, Joseph C., Jr., et al. (See Chapman, Samuel A., assignor.)						
Hammond, Joseph C., Jr., Rockville, Conn. Shoe-clasp	321,495	July 7	115	31	32	23
Hammond, Joseph C., Jr., Rockville, Conn. Shoe-clasp	324,107	Aug. 11	945	260	32	706
Hammond, Joseph C., Jr., Rockville, Conn. Shoe-clasp	314,680	Mar. 31	2203	585	30	1237
Hammond, Thomas M., Cleveland, Ohio. Vehicle-wheel	320,932	June 30	2804	715	31	1571
Hammond, Thomas W., and M. D. Quaid, Denver, Colo. Rein-holder	319,244	June 2	376	100	31	1118
Hammond, Walter J., Jundiahy, San Paulo, Brazil. Locomotive steam-engine	328,215	Oct. 13	917	228	33	174
Hammond, William E., assignor to G. A. Gladwin, Meriden, Conn. Pillow-sham holder	320,244	June 16	1737	461	31	1380
Hamplen Watch Company. (See Higginbotham, Charles T., assignor.)						
Hamp, Joseph, and D. Jacobs, Fort Clark, Tex. Car-coupling	318,184	May 19	1677	450	31	849
Hampson, Joseph, Newburg, N. Y. Dead-center device for lathes	316,541	Apr. 28	2151	566	31	409
Hampton, Brinton J. (See Kipe, Charles L., assignor.)						
Hampton, Richard. (See Crane, Edward Q., assignor.)						
Hampton, William R., assignor of one-half to T. J. Sullivan, Bowling Green, Ky. Animal-trap	330,695	Nov. 17	1690	456	33	845
Hamre, Even J., assignor to himself, J. G. Rihelsdaffer, and J. W. Brown, St. Paul, Minn. Combined potato and tree planter	314,830	Mar. 31	2438	644	30	1281
Hamre, Ole K., Pennington, Dak. Terr. Plow	314,017	Mar. 17	1339	349	30	1043
Hansch, John A., Traverse City, Mich. Bag holder and lifter	315,778	Apr. 14	1117	293	31	209
Hanavan, Philip, Oakland, Cal. Feed-roll	325,339	Sept. 1	144	40	32	1042
Hanbery, Thomas G., and J. D. Wall, Newstead, Ky. Harness attachment	324,684	Aug. 18	1751	482	32	864
Hanchett, George B. (See Hanchett, Orange R. and G. B.)						
Hanchett, Orange R. and G. B., Wichita, Kans. Plow attachment	322,443	July 21	1393	366	32	270
Hancock, Becker & Co. (See Becker, George, assignor.)						
Hancock, Cyrus J. (See Judson and Hancock.)						
Hancock, John T., deceased; T. P. Proctor, Boston, Mass., executor. Injector	322,828	Aug. 4	569	162	32	630
Hand, Benjamin R., assignor to himself and G. A. Munger, Camden, N. J. Cutter-head	323,673	Aug. 4	381	109	32	594
Hand, Benjamin R., assignor of one-half to G. A. Munger, Camden, N. J. Cutter-head	327,392	Sept. 29	2938	766	32	1578
Hand, Ekins, Rochester, assignor of two-thirds to H. Hammond, Jr., Phelps, and L. P. Johnson, Seneca Castle, N. Y. Snow-plow	325,075	Aug. 25	2277	696	32	969
Hand, John S., San Francisco, Cal. Tailor's measuring device	324,022	Aug. 11	831	230	32	685
Hand, S. Ashton, Toughkenamon, Pa. Mechanical movement	313,324	Mar. 3	413	103	30	862
Handlan, Alexander H., Jr., St. Louis, Mo. Lifting-jack	313,935	Mar. 17	1242	323	30	1023
Handlan, Alexander H., Jr., St. Louis, Mo. Signal-lantern	324,995	Aug. 25	2179	596	32	949
Handley, Abram, Acton, Mass. Fence-post	314,377	Mar. 24	1809	481	30	1140
Handley, Abram, Acton, Mass. Combined feed-hopper and water-trough	331,132	Nov. 24	2262	614	33	958
Handwerk, F. B., et al. (See Quinn, Isaac T., assignor.)						
Handy, Henry, Fitzwilliam, N. H. Egg-packer	322,444	July 21	1394	366	32	270
Haney, S. B., et al. (See Watts, Henry P., assignor.)						
Haney, Solomon, Cedar Falls, Iowa. Connection for windmill and piston rods	316,031	Apr. 21	1458	380	31	277
Haney, William H., Cincinnati, Ohio. Ice-machine	315,499	Apr. 14	723	191	31	135
Hanf, Edwin E., Wilmington, Del. Manufacture of finger-rings	324,533	Aug. 18	1557	429	32	828
Hanford, Clarence C. (See Hanford, Melancthon and C. C.)						
Hanford, Melancthon and C. C., Boston, Mass. Apparatus for bleaching liquids	319,409	June 2	578	157	31	1158
Hanford, Robert G., Jr., Newark, assignor to New Jersey Steel and Iron Company, Trenton, N. J. Breast-strap toggle	310,510	Jan. 6	441	121	30	26
Hanford, Robert G., Jr., assignor to Crane & Co., Newark, N. J. Harness attachment	318,895	May 26	2636	699	31	1031
Hanford, Robert G., Jr., assignor to Crane & Co., Newark, N. J. Gag-runner for bridles	319,408	June 2	578	157	31	1158
Hanford, Thomas, and J. E. McLoughlin, assignors to Mohawk Valley Scotch Cap Factory, Utica, N. Y. Mechanism for shearing caps	323,869	Aug. 4	624	175	32	64

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Hanhart, Louis. (See Fletcher, Dunkin, Hanhart, and Trautmann.)						
Hanika, Christian, Springfield, Ohio. Adjustable crestring	318,108	May 19	1584	424	31	831
Hanika, Christian, Springfield, Ohio. Metallic fence	330,583	Nov. 17	1547	414	33	815
Hanika, Christian, Springfield, Ohio. Connection for metallic fencing	330,584	Nov. 17	1548	414	33	816
Hanington, Charles F., et al. (See Stieringer and Vail, assignors.)						
Hankin, William H. (See Lord, Almon, assignor.)						
Hankins, Andrew J. (See Hankins, Fielding L., assignor.)						
Hankins, Fielding L., assignor of one-half to A. J. Hankins, Blandineville, Ill. Riding-plow	328,026	Oct. 13	674	177	33	129
Hankinson, John N. O., Harrisburg, Pa. Printer's quoin	312,845	Feb. 24	1889	518	30	722
Hankinson, John N. O., Harrisburg, Pa. Printer's locking-quin	326,428	Sept. 15	1613	420	32	1327
Hanks, Alexander P. R. (See Magce, Samuel H., assignor.)						
Hanley, Michael W. (See Bradford, John, assignor.)						
Hanley, Michael W., Chicago, Ill. Stock-releasing device	331,306	Dec. 1	197	51	33	1033
Hanley, William. (See Mills and Hanley.)						
Haulon, John, New York, N. Y. Process of and apparatus for manufacturing gas	311,154	Jan. 20	1267	347 348 349	30	248
Hanlon, John, New York, N. Y. Process of and apparatus for manufacturing gas	311,125	Jan. 20	1272	350 351	30	248
Hanlon, John, New York, N. Y. Apparatus for generating hydrocarbon gas	324,685	Aug. 18	1752	483	32	864
Hanna, Calvin, Hardin County, Tenn. Churn	322,445	July 21	1305	366	32	270
Hanna, Edgar A., Chicago, Ill. Feeding air to furnaces	329,735	Nov. 3	417	107	33	584
Hanna, Joseph S. (See Cox, Sanford C., assignor.)						
Hanna, Robert W. (See Cabell and Abney, assignors.)						
Hanna, Robert W., et al. (See Cabell, Samuel G., assignor.)						
Hannah, Robert S. (See Ston, Edward H., assignor.)						
Hannas, Frederick C. (See Jackson and Hannas.)						
Hannas, James M., Syracuse, and F. B. Lee, Little Falls, N. Y. Card-holder	318,372	May 19	1932	521	31	896
Hannay, James B., and J. Cowan, Glasgow, county of Lenaxk, Scotland. Car-coupling	323,142	July 28	2356	625	32	453
Hannay, James B., Cove Castle, Loch Long, county of Dumbarton, Scotland. Sounding apparatus	331,133	Nov. 24	2263	615	33	958
Hanneman, Charles F., Ahnapee, Wis. Cooking-stove	312,461	Feb. 17	1374	370	30	620
Hannes, William F., Oakland, Cal. Wire fruit-jar fastening	314,332	Mar. 24	1752	467	30	1125
Hannay, David, Turner Junction, Ill. Combined belt equalizer and tightener	330,977	Nov. 24	2060	557	33	920
Hannibal, Alfred, London, England. Manufacture of boots or shoes	313,727	Mar. 10	932	242	30	960
Hanno, Samuel. (See Samuels, Samuel D., assignor.)						
Hanover, Jacob G., Reed City, Mich. Wind-engine	310,419	Jan. 6	334	92	30	65
Haurahan, Joseph F., Ottawa, Ontario, Canada. Refrigerator building	322,463	Oct. 20	1272	330	33	247
Haurahan, Joseph F., assignor of one-fourth to J. Gordon, Ottawa, Ontario, Canada. Refrigerator-building	322,446	July 21	1396	366 367	32	270
Hansberry, Thomas K., Bloomington, Nebr. Motor	316,542	Apr. 28	2152	566	31	409
Hanscom, John F., Boston, Mass. Ticket-punch	326,429	Sept. 15	1614	420	32	1327
Hanscom, Joshua F., assignor of one-half to Ashley Wire Company, Joliet, Ill. Machine for making staples	322,372	July 14	1290	337 338	32	245
Hanscom, Orlnton M., assignor to W. Read & Sons, Boston, Mass. Holster for pistols	317,128	May 5	284	66	31	572
Hanscom, William W., San Francisco, Cal. Air-brake	320,046	Sept. 22	1895	499	32	1386
Hanse, William, assignor to J. T. Perkins, Brooklyn, N. Y. Loom-temple for tubular fabrics	329,037	Oct. 27	2052	532	33	395
Hansell, James B., Sheffield, county of York, England. Car-wheel	320,246	June 16	1739	402	31	1381
Hansen, Andrew P., assignor to A. H. Boulton, London, England. Type-writing machine	327,946	Oct. 6	569	148	33	102
Hansen, Hans C., Boston, Mass. Mold for casting printers' leads	327,546	Oct. 6	59	14	33	12
Hansen, Jens P., Odense, Denmark. Machine for sharpening saws	319,812	June 9	1149	304	31	1267
Hansen, John, Maryville, Mo. Boot or shoe	312,117	Feb. 10	882	242	30	521
Hansen, Ludvig, and A. Smith, Wilmington, N. C. Apparatus for creosoting wood	312,961	May 5	41	11	31	530
Hansen, Ludvig, and A. Smith, Wilmington, N. C. Preserving wood	317,129	May 5	265		31	572
Hansen, Ludvig, and A. Smith, Wilmington, N. C. Wood-preserving apparatus	322,219	July 21	1804	502	32	360
Hansen, O. C. (See Helfaer, Simon, assignor.)						
Hansen, Peter, Wauwata, Wis. Stump-puller	313,325	Mar. 3	414	103	30	852
Hansen, Jacob, Oxford, Ohio. Vehicle-spring	312,246	Feb. 24	1890	518	30	722
Hanson, Christian. (See Mack and Hanson.)						
Hanson, Dempsey B., Indianapolis, Ind. Saw-sawage	330,396	Nov. 17	1314	349	33	771
Hanson, Francis O., Kenton, Ohio. Form and frame for building iron fence	318,427	May 19	2005	540	31	908
Hanson, Freeman, assignor to J. W. Meserve and G. W. Hanson, Bar Mills, Me. Folding wash-bench	324,320	Aug. 11	1251	340	32	763
Hanson, George, and C. D. Clark, Massillon, Ohio. Saw-mill set-works	326,291	Sept. 15	1440	375 376	32	1295
Hanson, George W., et al. (See Hanson, Freeman, assignor.)						
Hanson, Luther, Halifax, county of York, England. Time-check receiver	319,090	June 2	102	51	31	1064
Hanson, Olaus, Worcester, Mass. Roller-skate	321,434	July 7	27	7	32	8
Hanson, Paul, St. Paul, Minn. Automatic car-brake	324,375	Aug. 18	1325	360 361	32	785
Hanssen, Gustav, St. Louis, Mo. Folding and extension trestle	318,896	May 26	2637	699	31	1031
Hapgood Plow Company. (See Black, Joseph P., assignor.)						
Hapgood Plow Company. (See Lane, John, assignor.)						
Hapgood Plow Company. (See Pates, Thomas, assignor.)						
Hapgood Plow Company. (See Pates, William S., assignor.)						
Harbach, Daniel L., assignor to Tatum & Bowen, San Francisco, Cal. Saw-mill set-works	330,020	Nov. 10	812	208	33	663
Harbuck, Amanda L. (See Coppock, Joseph A., assignor.)						
Harbutt, Gay M., Galveston, Tex. Coin-sorter	326,866	Sept. 22	2236	583	32	1447
Hard, Charles H., Oneida, N. Y. Folding wire mattress	318,728	May 26	2405	641	31	991
Hard, Henry D., Oneida, N. Y. Folding cot	321,211	June 30	3060	812	31	1638
Harden, James H., Towanda, Pa. Mail-crane	322,700	July 21	1750	462	32	334
Harden, Walter C., Valley Falls, R. I. Ticket-punch	321,718	July 7	411	110	32	77
Hardenbergh, Peter R. L. (See Brownson, Ralph, assignor.)						
Hardenbergh, Benjamin F., Rockland, N. Y. Chair	318,469	May 26	2036	556	31	928
Harder, Frank E., et al. (See Harder, Jacob, assignor.)						
Harder, George W., et al. (See Harder, Jacob, assignor.)						
Harder, Jacob, Lock Haven, assignor to F. E. and G. W. Harder, Tyrone, Pa. Breech-loading fire-arm	319,482	June 9	698	187	31	1187
Harder, Victor A., assignor to Mayor, Lane & Company Brass Works, New York, N. Y. Bathing apparatus	324,686	Aug. 18	1754	483 484	32	864
Hardgrave, Cager, Clarksville, Ark., assignor of two-thirds to C. F. Cox, Bunker Hill, Ill. Peach-stoner	328,716	Oct. 20	1864	434	33	318

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Hardie, Robert. (See Everett and Hardie.)						
Hardie, Robert W., Albany, N. Y. Journal-bearing	317,345	May 5	568	145	31	627
Hardie, Robert W., Albany, N. Y. Journal-bearing	331,497	Dec. 1	341	92	31	1059
Hardin, Joseph E. (See Downie and Hardin.)						
Harding, August, Oakland, Cal. Incandescent electric lamp	833,219	Dec. 29	2845	744	33	1532
Harding, Horace, Tuscaloosa, Ala. Automatic dam	332,895	Dec. 22	2384	630	33	1444
Harding, Richard, assignor of one-half to I. Conder, McGaheysville, Va. Combined band-cutter and feeder for thrashing-machines	310,679	Jan. 13	666	189	30	132
Harding, Thomas, Detroit, Mich. Foundryman's clamp	321,812	July 7	548	144	32	102
Harding, William H., Springfield, Cal. Wheel for vehicles	310,585	Jan. 13	549	151	30	111
Hardingham, George G. M., 191 Fleet Street, county of Middlesex, England. Steam-boiler	316,032	Apr. 31	1459	381	31	278
Hardman, Fred H., Taunton, Mass. Wire-nail machine	317,130	May 5	966	66, 67	31	572
Hardman, James, Jr., Belleville, N. J. Friction shade-roller	327,161	Sept. 29	2636	626	32	1524
Hardman, Joseph F., Rensselaer, Ind. Wire floating live-box	316,775	Apr. 28	2486	649	31	470
Hardwick, Joseph O., Colorado City, assignor to E. S. Bumstead and J. J. Corum, Colorado Springs, D. Reeves and S. Alsop, Jr., Denver, Colo., and D. Scull, Jr., Philadelphia, Pa. Washing-machine	325,076	Aug. 25	2278	626	32	969
Hardwicke, James K., and E. B. Welles, Marshall, N. C. Tobacco-drier	318,729	May 26	2406	742	31	991
Hardwicke, Lauriston W., assignor of one-half to F. Turek, East Saginaw, Mich. Printer's chase	332,516	Dec. 15	1847	482	33	1340
Hardwicke & Ware. (See Snickow, Edmund, assignor.)						
Hardy, Alvah E., Everett, assignor to E. Dewey & Co., Boston, Mass. Governor for steam-engines	314,528	Mar. 24	2018	539	30	1177
Hardy, Cyrus H., assignor of one-half to I. Gardner, Hingham, Mass. Clasp	311,126	Jan. 20	1275	351	30	249
Hardy, Dexter D., Chicago, Ill. Multiple-cylinder engine	313,730	Mar. 10	940	243	30	961
Hardy, Dexter D., assignor to R. H. Cowdrey, Chicago, Ill. Steam-engine	313,728	Mar. 10	933	242	30	960
Hardy, Dexter D., assignor of two-thirds to R. H. Cowdrey, Chicago, and M. J. Perry, Downer's Grove, Ill. Steam-engine valve	313,729	Mar. 10	938	243	30	961
Hardy, Dexter D., assignor to Illinois High Speed Engine Company, Chicago, Ill. Steam-engine	331,234	Nov. 24	2414	654	33	985
Hardy, Emory E., Newark, N. J. Buckle	328,936	Oct. 27	1894	495	33	367
Hardy, Francis A., Chicago, Ill. Apparatus for testing the eyes	311,185	Jan. 27	1363	373	30	271
Hardy, George A., Old Lenton, England. Leather-finishing machine	317,770	May 12	1122	295	31	736
Hardy, Hippolyte. (See Hardy, Louis J., assignor.)						
Hardy, Hippolyte, New York, N. Y. Adjustable column or stand for stools, &c	314,831	Mar. 31	2440	644	30	1282
Hardy, Leslie T., assignor of two-thirds to R. P. Kyle and J. Danner, Houston Mines, Va. Cattle-guard	325,606	Sept. 1	514	129	32	1113
Hardy, Louis J., Rouen, France, assignor to H. Hardy, New York, N. Y. Gutter and spout	326,647	Sept. 22	1897	499	32	1386
Hardy, Orlando B., assignor to Giant Powder Company, San Francisco, Cal. Drying apparatus	315,141	Apr. 7	208	50, 51	31	38
Hardy, Thomas P., New York, N. Y. Steam-radiator	330,096	Nov. 17	1691	456	33	845
Hardy, William, Dundas, Ontario, Canada. Back-band for harness	317,346	May 5	569	145	31	627
Hare, Abraham C., Beckleysville, Md. Water-conveying apparatus	320,233	June 30	2695	715	31	1571
Hare, Christopher C., Kansas City, Mo. Sheet-metal-bending machine	320,653	June 23	2337	618	31	1497
Hare, Richard T., Springfield, Mass. Magazine for fire-arms	332,896	Dec. 22	2385	631	33	1445
Harger, Charles G., Jr., assignor to G. V. L. Mellinger, Canton, Ohio. Bed-clothing clamp or fastener	330,833	Nov. 17	1865	503	33	876
Harger, David, Des Moines, Iowa. Plow and mold-board therefor	314,445	Mar. 24	1896	507	30	1157
Hargrave, Samuel, Sr., and A. M. Lee, Pomona, Ill. Fire-escape	321,212	June 30	3061	812	31	1638
Hargraves, James, Providence, R. I. Shutter-worker	318,109	May 19	1585	424	31	831
Hargreaves, George, Detroit, Mich. Ventilating sewers	321,719	July 7	412	110	32	77
Hargreaves, George, Detroit, Mich. Washing-machine	322,710	July 21	1751	462	32	335
Hargreaves, George, Winton Place, Ohio. Re-rolling old rails	328,937	Oct. 27	1895	495	33	367
Hargreaves, William, and W. Inglis, Bolton, county of Lancaster, England. Engine for starting or turning large engines	316,776	Apr. 28	2486	649	31	470
Harrison, Alfred A., Elmore, Ohio. Railway-tie	313,072	Mar. 3	45	12	30	786
Harker, Henry K., assignor to W. P. and H. C. Bruce, Cincinnati, Ohio. Machine for making metal seals	327,547	Oct. 6	61	14	33	12
Harker, John C., Grand Junction, Iowa. Ditching-machine	312,629	Feb. 24	1596	437	30	670
Harker, John C., Grand Junction, Iowa. Traction-engine	312,630	Feb. 24	1597	437	30	670
Harker, John C., Grand Junction, Iowa. Ditching-machine	312,631	Feb. 24	1600	438	30	670
Harkins, George, Aleppo, Pa. Hoisting-jack	316,777	Apr. 28	2487	649	31	470
Harkness, William, New York, N. Y. Automatic fire-extinguisher	323,578	Aug. 4	254	75	32	509
Harksen, Martin L. (See Petersen, Harksen, and Hagg.)						
Harlan, Charles F., Ottumwa, Iowa. Button-fastener	329,644	Nov. 3	296	75	33	561
Harlan, James A., Washington, D. C. Telephonic connection	313,731	Mar. 10	941	243	30	961
Harley, Olin, South Whitley, Ind. Eaves-trough fastening	327,162	Sept. 29	2637	626	32	1524
Harlin, George C., Hayesville, Iowa. Washing-machine	330,323	Nov. 10	1800	320	33	743
Harlow, Charles F., and E. E. Angell, Malden, Mass. Trimming attachment for sewing-machines	319,245	June 2	377	101	31	1119
Harlow, Cushing C., Brockton, Mass. Pipe-cutter	331,787	Dec. 8	804	204	33	1149
Harlow, Cushing C., assignor to Harlow Lubricator Company, Brockton, Mass. Lubricator	324,996	Aug. 25	2179	596	32	949
Harlow, Dewitt C., Chippewa Falls, Wis. Valve for steam-engines	313,496	Mar. 10	636	165	30	904
Harlow Lubricator Company. (See Harlow, Cushing C., assignor.)						
Harlow, Lucius, and G. Parker, Holyoke, Mass. Mechanism for laying off sheets from a paper-cutter	313,864	Mar. 17	1130	294	30	1004
Harman, C. Wesley, New York, N. Y. Watch-case	313,326	Mar. 3	415	104	30	852
Harman, C. Wesley, and H. G. Skidmore, Cincinnati, Ohio. Watch-case. (Reissue.)	10,556	Feb. 3	524	142	30	447
Harman, Elias R., Lincoln, Nebr. Stock-feeder	312,462	Feb. 17	1374	379	30	620
Harman, Frank H., Holton, Kans. Insecticide-wash	325,169	Aug. 25	2394		32	991
Harman, Gottlieb. (See Weaver, Charles P., assignor.)						
Harman, James, Rocky Well, S. C. Cultivator	310,586	Jan. 13	550	152	30	112
Harmel, Ernest, assignor to Société Harmel Frères, Val Des Bois, France. Removing foreign substances from wool and other textile fibers	318,730	May 26	2407	642	31	991
Harmon, Charles, Tiffin, Ohio. Cut-off valve	322,711	July 21	1751	463	32	335
Harmon, Decater, Ionia, Mich. Steam-generator	313,327	Mar. 3	415	104	30	853

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Harmon, I. M. (See Woodward and Copeland, assignors.)						
Harmon, Martin, East St. Louis, Ill. Car-coupling	324,108	Aug. 11	946	260	32	706
Harmon, Milford, Jackson, Mich. Mechanism for brushing flour-bolts	316,778	Apr. 28	2489	650	31	470
Harmon, Winfield S., Detroit, Mich. Anti-friction bearing for roller-skates	320,554	June 23	2206	583	31	1473
Harnier, Lavender B., and W. G. Losch, Pottsville, Pa. Bottle-filler	325,929	Sept. 8	839	238	32	1196
Harney, John M., Florissant, Mo. Refrigerator	321,213	June 30	3062	812	31	1638
Harney, Michael C., assignor of one-half to W. N. Brennan, St. Louis, Mo. Car-axle box	315,278	Apr. 7	413	103	31	75
Harnish, Amos B., Medway, Ohio. Folding stool	318,110	May 19	1586	424	31	831
Harnish, Hugo H. (See Schmidtborn, Theodore, assignor.)						
Harness, Cornelius B., London, England. Inhaler	311,314	Jan. 27	1551	422	30	305
Harnsberger, James J., Decatur, Ill. Belt-replacer	315,615	Apr. 14	896	234 235	31	166
Harpel, Benjamin F. (See Weaver, Isaac D., assignor.)						
Harper, John H., and D. V. Brooks, Allegheny City, Pa.; said Brooks assignor to said Harper. Cooking-stove	326,867	Sept. 22	2237	583	32	1447
Harper, Louise. (See Baldwin, James S., assignor.)						
Harper, Nathan, Newark, N. J. Wheel-sled	315,616	Apr. 14	896	235	31	166
Harper, Wesley H., Berlinville, Pa. Bush-hammer	314,291	Mar. 24	1695	452	30	1118
Harper, Wiley M. (See Greer, Harper, and Greer.)						
Harbold, Joseph, Harrisburg, Ill. Thill-coupling	319,483	June 9	700	188	31	1187
Harrell, Edward W. (See Hawley, Theodore, assignor.)						
Harrell, A. Frank, assignor of one-half to J. L. Terrell, Terrell, Tex. Motor	332,517	Dec. 15	1848	483	33	1340
Harrell, Ben F., New Marion, Ind. Ventilator for grain-bins	325,170	Aug. 25	2395	659	32	981
Harriman, John, Milwaukee, Wis. Thill-coupling	321,720	July 7	413	110	32	77
Harrington, Charles F., Lyndhurst, N. J. Carriage-axle iron	321,291	June 30	3156	841	31	1656
Harrington, David. (See Alexander and Harrington.)						
Harrington, Frank W., Charlestown, Mass. Switch-board	310,890	Jan. 20	931	253	30	187
Harrington, Franklin E., Syracuse, N. Y. Chair	332,711	Dec. 22	2144	566	33	1399
Harrington, John, Coventry, England. Velocipede	324,317	Aug. 11	1245	338 339 388 389 390	32	762
Harrington, John, Caldwell, Kans. Rotary engine	332,253	Dec. 15	1467	389 390	33	1278
Harrington, Milo J. (See Gleason and Harrington.)						
Harrington, Samuel H., Columbus, Ohio. S. maphore	317,347	May 5	570	146	31	627
Harrington, Son & Co., Edwin. (See Sprozell and Haskins, assignor.)						
Harrington, Theodore. (See George, James A., assignor.)						
Harrington, Theodore, Southbridge, Mass. Handle for shoe-knives	319,091	June 2	194	51	31	1024
Harris, Albert M. (See Berger and Harris.)						
Harris, Annie W., Philadelphia, Pa. Bolt for doors or shutters	313,328	Mar. 3	417	104	30	853
Harris, Asa L. (See Shearer, William C., assignor.)						
Harris Button Hole Attachment Company. (See Harris, John K., assignor.)						
Harris, Charles P., and S. Baltzly, Hill's Ferry, Cal. Coupling hook and loop	310,274	Jan. 6	152	42	30	30
Harris, Charles R., Cortland, N. Y. Buckle	314,018	Mar. 17	1340	349	30	1043
Harris, Charles R., assignor to himself, W. S. Harris, and A. Underwood, Jersey Shore, Pa. Suspender-strap clasp	332,887	Dec. 22	2387	631	33	1445
Harris, Daniel A., Boston, Mass. Roller-skate	326,734	Sept. 22	2049	533	32	1413
Harris, Daniel M., Aberdeen, Miss. Machine for clearing the sides of railway-tracks	325,340	Sept. 1	145	40	32	1042
Harris, Elijah, Princeton, Ill. Boot-jack	320,480	Nov. 17	1425	381	33	792
Harris, Enoch, Quincy, Ill. Wrench	326,868	Sept. 22	2240	584	32	1447
Harris, Francis M. (See Mellette and Harris.)						
Harris, George W., Prospect, Kans. Peanut and coffee roaster	317,348	May 5	572	146	31	628
Harris, Gilbert J. (See Flewelling and Harris.)						
Harris, Henry D., et al. (See Ellis, James W., assignor.)						
Harris, Hiram S., Millville, Ky. Gate	329,308	Oct. 27	2438	632	33	466
Harris, James G., assignor of three-fourths to J. B. Montague and J. T. Booker, Franklin, Ky. Churn	322,712	July 21	1753	463	32	335
Harris, John, and J. Lucas, Brantford, Ontario, Canada. Self-binding harvester	322,931	July 28	2084	549	32	398
Harris, John, and J. Lucas, assignors to A. Harris Son & Co., (limited), Brantford, Ontario, Canada. Mechanism for dumping the bundle-carriers of harvesting-machines	322,932	July 28	2085	550	32	399
Harris, John K., Springfield, Ohio, assignor to Harris Button Hole Attachment Company, New York, N. Y. Button-hole attachment for sewing-machines	318,470	May 26	2057	556	31	928
Harris, John K., Springfield, Ohio, assignor to Harris Button Hole Attachment Company, New York, N. Y. Button-hole attachment	318,471	May 26	2060	556	31	928
Harris, Levi, assignor of one-half to D. Phillips, Kalamazoo, Mich. Fire-ladder and truck	311,981	Feb. 10	711	195	30	487
Harris Son & Co., A. (See Harris and Lucas, assignors.)						
Harris Son & Co., A. (See Wedlake and Jones, assignors.)						
Harris, Thomas. (See Dunn and Harris.)						
Harris, Thomas, assignor to A. A. Van Voorhies, Sacramento, Cal. Apparatus for forming horse-collars	313,420	Mar. 3	530	139 140	30	876
Harris, Thomas, assignor to A. A. Van Voorhies & Co., Sacramento, Cal. Apparatus for forming horse-collars	324,023	Aug. 11	832	230	32	606
Harris, W. John, St. Louis, Mo. Hat	324,687	Aug. 18	1756	424	32	865
Harris, William, Pittsburgh, Pa. Pipe-wrench	326,878	Sept. 29	2328	625	32	1481
Harris, William E., New York, N. Y. Extracting gold, silver, and lead from ores	312,247	Feb. 24	1890	.....	30	722
Harris, William E., New York, N. Y. Manufacture of paint from metallic lead	327,678	Oct. 6	243	.....	33	43
Harris, William E., St. Louis, Mo. Utilizing waste hoop-iron	314,378	Mar. 24	1810	481	30	1140
Harris, William E., St. Louis, Mo. Utilizing waste hoop-iron. (Reissue)	10,620	July 7	723	189	32	131
Harris, William E., St. Louis, Mo. Brass for rolling-mills	330,697	Nov. 17	1692	456	33	845
Harris, Winfield S., et al. (See Harris, Charles R., assignor.)						
Harrison, Arthur B., assignor of three-fourths to D. Veasey, Baltimore, and W. M. Harrison, Laurel, Md. Hand chemical fire-extinguisher	329,309	Oct. 27	2439	632	33	466
Harrison Brothers & Co. (See Freist, Henry C., assignor.)						
Harrison, Charles A., Bridgeport, Conn. Auxiliary month-piece for telephones	327,393	Sept. 29	2039	767	32	1578
Harrison, James F., Holtonville, Ga. Combined guano-distributor and seed-planter	325,535	Sept. 1	432	107	32	1009
Harrison, James M., and L. N. White, Columbia City, Ind.; said White assignor to said Harrison. Car-coupling	310,511	Jan. 6	442	122	30	86
Harrison, James R. (See Weber and Harrison.)						
Harrison, Jonathan W., Ypsilanti, assignor of one-half to C. R. Miller, Adrian, Mich. Coal-mining machine	321,103	June 30	2929	776	31	1613
Harrison Machine Works. (See Stout, James A., assignor.)						
Harrison, Thomas B., Clinton, assignor of two-thirds to J. W. Martin, Kirksville, and A. Siegel, St. Louis, Mo. Machine for making wire and picket fencing	314,933	Mar. 31	2580	682 683 684	30	1306

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Harrison, Thomas J., Brooklyn, N. Y. Wind-motor	320,654	June 23	2339	618 619	31	1497
Harrison, Thomas S. (See Beck, Charles F., assignor.)						
Harrison, Thomas S. (See Van Gestel and Beck, assignors.)						
Harrison, William. (See Weber and Harrison, assignors.)						
Harrison, William, Walker, Mich. Apparatus for welding wheel-tires	326,869	Sept. 22	2240	584	32	1447
Harrison, William, Kingston, Ontario, Canada. Weather-strip	333,296	Dec. 29	2955	772	33	1553
Harrison, William C., New Orleans, La. Hand-power for sewing and other machines	330,021	Nov. 10	813	208	33	664
Harrison, William F., Wilmington, Del. Cutter for fine-holes in tube-sheets of boilers	318,897	May 26	2639	700	31	1031
Harrison, William H., assignor to Street Car Money Drawer Company, Louisville, Ky. Money-drawer	322,373	July 14	1294	338	32	246
Harrison, William M., et al. (See Harrison, Arthur B., assignor.)						
Harrison, William P., Columbus, Ohio. Chain-pump bucket	318,615	May 26	2260	603	31	963
Harrod, Samuel B., Jennings, Ind. Fence-post	318,428	May 19	2007	541	31	909
Harrop, Joseph M., assignor of one-half to J. Ash, Quincy, Ill. Fence-making machine	321,359	June 30	3242	805 806	31	1673
Harroun, Alexander, Clockville, N. Y. Monument	314,019	Mar. 17	1341	349	30	1043
Harrow, Albert G., et al. (See Briggs, Alfred, assignor.)						
Harry, Thomas C., Dallas, Tex. Combined chimney and ventilator	314,238	Mar. 24	1680	428	30	1104
Harsha, Leslie R., Chicago, Ill. Picture-frame	314,832	Mar. 31	2441	645	30	1282
Harsha, Leslie R., Chicago, Ill. Wooden-surfaced molding	314,833	Mar. 31	2442	644	30	1282
Harsin, Gerard. (See Clarke and Harsin.)						
Harson, John N., New Haven, Conn., assignor to M. J. Harson, Providence, R. I. Hat-sweat	326,061	Sept. 8	1147	52	32	1234
Harsom, M. Joseph. (See Harsom, John N., assignor.)						
Harström, Carl G., and A. K. Westerlind, Peekskill, N. Y. Drilling-machine	324,688	Aug. 18	1757	484	32	865
Hart, Albert. (See Fisher and Hart.)						
Hart, Alfred, San Marcos, Tex. Cotton-packer	327,239	Sept. 29	2758	715 716	32	1547
Hart, Camillus S., Winchester, Va. Car-brake	322,507	July 21	1604	424	32	307
Hart, Charles L., Brooklyn, N. Y. Can seaming and crimping machine	324,318	Aug. 11	1247	339	32	792
Hart, Edwin J., Columbiana, Ohio. Thill-coupling	330,585	Nov. 17	1549	415	33	816
Hart, George E., Waterbury, Conn. Watch-movement	324,669	Aug. 18	1758	425	32	865
Hart, George E., Waterbury, Conn. Stem-winding attachment for watches	325,534	Sept. 1	432	107 108	32	1099
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Making crowns for winding watch-arbors	314,834	Mar. 31	2443	645	30	1282
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Watch-plate	321,806	July 7	669	173	32	121
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Stem arbor wheel and ratchet	328,307	Oct. 13	1033	267	33	195
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Making a combined spring arbor and collet	328,308	Oct. 13	1034	267	33	196
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Watch-plate	328,401	Oct. 13	1174	303	33	222
Hart, George E., assignor to Waterbury Watch Company, Waterbury, Conn. Making a combined wheel and pinion	328,402	Oct. 13	1175	303	33	222
Hart, Hamilton M. (See Jones, Franklin D., assignor.)						
Hart, Hamilton M. (See Jones and Hart.)						
Hart, Harrie B., Philadelphia, Pa. Lantern	311,128	Jan. 20	1377	352	30	249
Hart, Harrie B., Philadelphia, Pa. Oil-can	311,488	Feb. 3	37	10	30	356
Hart, Harrie B., Philadelphia, Pa. Bicycle-stand	322,057	July 14	890	230	32	170
Hart, Harrie B., Philadelphia, Pa. Oil-can	322,447	July 21	1397	367	32	271
Hart, Henry C., Detroit, Mich. Toy savings-bank	317,771	May 12	1123	296	31	737
Hart, Henry C., Detroit, Mich. Soap-dish	319,246	June 2	372	101	31	1119
Hart, Hubert C., Unionville, Conn. Barbed wire	312,463	Feb. 17	1375	379	30	620
Hart, Hubert C., Unionville, Conn. Hand-grenade fire-extinguisher	324,024	Aug. 11	1331	231	32	686
Hart, Hubert C., Unionville, Conn. Roller-skate	324,376	Aug. 18	1327	361	32	745
Hart, Hubert C., Unionville, Conn. Roller-skate	324,377	Aug. 18	1328	361	32	745
Hart, Ivy J., Chandler, Ind. Violin attachment	322,098	July 14	944	244	32	180
Hart, John B., and E. H. Walker, Holyoke, Mass. Device for cleaning out rags and saving small rags of the same	311,186	Jan. 27	1364	374	30	272
Hart, John B., and E. H. Walker, Holyoke, Mass. Rag-cleaning machine	311,187	Jan. 27	1365	374	30	272
Hart, Margaret, assignor of one-half to C. T. Moore, New York, N. Y. Syringe	322,598	July 21	1605	424	32	308
Hart, Richard, Byron, Ill. Thill-coupling	317,349	May 5	572	146	31	628
Hart, Stacy B., Peoria, Ill. Force-feed fertilizer attachment for grain-drills	323,326	July 28	2635	698	32	501
Hart, Stacy B., Peoria, Ill. Grain-drill	323,327	July 28	2637	699	32	501
Hart, Stacy B., Peoria, Ill. Broadcast-seeding machine	323,328	July 28	2638	699	32	501
Hart, Thomas F., Lynn, Mass. Presser-foot	311,788	Dec. 8	806	205	33	1149
Hart, Thomas J., assignor to J. Jenks, Detroit, Mich. Combined injector and ejector	314,446	Mar. 24	1899	507	30	1157
Hart, William, Kirksville, Mo. Pendulum escapement for clocks	326,292	Sept. 15	1445	376	32	1296
Hart, William H., Jr. (See Guilbert, J. Murray, assignor.)						
Hart, William H., Jr. (See Merrill, William E. T., assignor.)						
Hart, William H., Jr., Philadelphia, Pa. Buckle	316,261	Apr. 21	1767	464	31	333
Hart, William H., New Britain, Conn. Series of labels for tacks, brads, or nails	327,260	Sept. 29	2759	716	32	1547
Hart, William H., New York, N. Y. Marine drag	332,898	Dec. 22	2387	631	33	1445
Harter, Isaac. (See Kohler, Frederick E., assignor.)						
Harter, Joseph V., Denver, Ill. Seed-drill attachment	330,092	Nov. 10	815	208	33	664
Hartford Fruit Jar Company. (See Guptill, Winslow W., assignor.)						
Hartford Glass Water Closet Company. (See Lord, Henry S., assignor.)						
Hartford Silver Plate Company. (See Valentino, Newell S., assignor.)						
Hartford Woven Wire Mattress Company. (See Pease, Robert R., assignor.)						
Hartig, Henry, Brooklyn, N. Y. Gas-engine	324,554	Aug. 18	1557	430	32	828
Hartigan, William R., Collinsville, Conn. Hubbing-machine	317,131	May 5	268	67, 68	31	572
Hartley, Bernard. (See Hartley, Thomas and B.)						
Hartley, Simeon, et al. (See McKendrick, John, assignor.)						
Hartley, Thomas and B., Accrington, county of Lancaster, England. Last-stand for shoe-maker's use	311,315	Jan. 27	1553	422 423	30	305
Hartman, Benjamin J., Wooster, Ohio. Harness-buckle	319,579	June 9	828	219	31	1210
Hartman, Benjamin J., assignor of one-half to D. W. Immel, Wooster, Ohio. Gig-saddle	319,484	June 9	701	188	31	1187
Hartman, Charles F., Keller's Church, Pa. Hook	324,025	Aug. 11	834	231	32	686
Hartman, Charles R., Vincennes, Ind. Rolling colter	313,073	Mar. 3	46	12	30	786
Hartman, James, Grant, Ind. Gate	326,870	Sept. 22	2242	564	32	1448
Hartman, John M., Philadelphia, Pa. Dumping-car	321,024	June 30	2821	750	31	1594

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Hartman, John M., Philadelphia, Pa. Blast-furnace bell and apparatus for working the same	321,966	July 11	705	200	32	147
Hartman, John M., Philadelphia, Pa. Dumping-car	323,417	Aug. 4	45	11, 12	32	531
Hartman, John M., Philadelphia, Pa. Valve	327,548	Oct. 6	62	14	33	19
Hartmann, Joseph, assignor to J. H. Orwig, Fremont, Ohio. Hoop-sawing machine	314,635	Mar. 31	2444	045	30	12-2
Hartnett, John M., Lyons, Kans. Automatic oiler for crank-pins	314,134	Mar. 31	2524	024	30	1306
Hartough, Cornelius S. (See Trussell, Lorenzo J., assignor.)						
Hartshorn, Joseph A., et al. (See Belknap, Hamlet W., assignor.)						
Hartshorn, Stewart, Millburn, N. J. Spring shade-roller	320,247	June 16	1740	462	31	1381
Hartshorn, Stewart, Millburn, N. J. Shade-roller	322,713	July 21	1754	463	32	335
Hartshorn, Stewart, Millburn, N. J. Spring shade-roller	322,216	Oct. 13	918	239	33	175
Hartshorne, Charles, et al. (See Bisby, Arthur, assignor.)						
Hartt, Henry. (See Stosch, Ernst, assignor.)						
Hartpece, William D. (See Hunter, James, assignor.)						
Hartwell, Abraham V., Chicago, Ill. Sand-drier	313,732	Mar. 10	042	244	30	061
Hartwell, Abraham V., Chicago, Ill. Pressure-gage	324,251	Aug. 11	1152	314	32	744
Harty, William, Portsmouth, Ohio. Metal-heating furnace	310,963	May 5	44	12	31	530
Hartz, John A., et al. (See Willard, Thomas, assignor.)						
Harvey, Felix A., McLeansborough, Ill. Gate-latch	327,670	Oct. 6	244	50	33	43
Harvey, George V., et al. (See Seenenbach, Samuel C., assignor.)						
Harvey, Hayward A., Orange, N. J. Rolled wood-screw	310,247	June 2	378	101	31	1119
Harvey, Hayward A., Orange, N. J. Gimlet-pointed rolled wood screw	321,214	June 30	3063	813	31	1638
Harvey, Hayward A., Orange, N. J. Screw-tap	327,261	Sept. 29	2700	716	32	1547
Harvey, Hayward A., Orange, N. J. Screw-tap	327,263	Sept. 29	2762	717	32	1548
Harvey, Hayward A., Orange, N. J. Screw-swaging machine	329,737	Nov. 3	420	108	33	583
Harvey, Hayward A., Orange, N. J. Spring-washer	329,738	Nov. 3	422	108	33	583
Harvey, Hayward A., Orange, N. J. Making rolled wood-screws	329,900	Nov. 10	647	165	33	133
Harvey, Hayward A., Orange, N. J., and C. S. Clark, Providence, R. I.; said Clark assignor to Harvey Screw and Bolt Company, of Connecticut. Screw-pointing machine	314,935	Mar. 31	2585	684 } 685 }	30	1306
Harvey, Hayward A., Orange, N. J., and C. S. Clark, Providence, R. I.; said Clark assignor to Harvey Screw and Bolt Company, of Connecticut. Machine for nicking screw-blanks	314,936	Mar. 31	2587	685 }	30	1307
Harvey, Hayward A., Orange, N. J., and C. S. Clark, Providence, R. I.; said Clark assignor to Harvey Screw and Bolt Company, of Connecticut. Steel die	327,262	Sept. 29	2761	716 } 717 }	32	1548
Harvey, Hayward A., Orange, N. J., assignor to Harvey Screw and Bolt Company, of Connecticut. Machine for rolling screw-threads	328,217	Oct. 13	919	239	33	175
Harvey, Leon J., Plover, Wis. Grain-scourer	323,035	July 28	2218	526 } 527 }	32	425
Harvey, Patrick, Chicago, Ill. Stop and waste valve	314,836	Mar. 31	2445	646	30	1283
Harvey, Patrick, Chicago, Ill. Waste-pipe trap and valve	316,962	May 5	42	12	31	530
Harvey, Patrick, Chicago, Ill. Stop and waste valve	318,247	May 10	1760	471	31	864
Harvey, Patrick, Chicago, Ill. Stop and waste valve	329,736	Nov. 3	418	108	33	584
Harvey, Patrick, Chicago, Ill. Stop and waste valve	331,789	Dec. 8	806	205	33	1150
Harvey, Robert, et al. (See Davis, John P., assignor.)						
Harvey, Samuel W., et al. (See Straw, George, assignor.)						
Harvey Screw and Bolt Company. (See Harvey, Hayward A., assignor.)						
Harvey Screw and Bolt Company. (See Harvey and Clark, assignors.)						
Harvey, Thomas A., East Saginaw, Mich. Railway step-ladder	315,939	Apr. 14	1336	347	31	248
Harvey, William, Augusta, Me. Scythe	327,163	Sept. 29	2638	686	32	1324
Harvey, William, Readfield, Me. Ax	327,164	Sept. 29	2639	686	32	1524
Harvey, William H. F., et al. (See McMurtry, James S., assignor.)						
Harvii, Charles R., Manning, S. C. Rotary engine	322,179	July 14	1054	273	32	290
Harwood, Henry, Warren, Ohio. Constructing hollow brick walls	312,464	Feb. 17	1376	380	30	1620
Harwood, Herbert J., Littleton, assignor, by mesne assignments, to Harwood Manufacturing Company, Leominster, Mass. Folding chair or settee	315,617	Apr. 14	698	235	31	167
Harwood, Herbert J., Littleton, assignor to Harwood Manufacturing Company, Leominster, Mass. Folding seat settee	315,618	Apr. 14	699	236	31	167
Harwood, Herbert J., Littleton, assignor to Harwood Manufacturing Company, Leominster, Mass. Manufacture of chair-backs, &c	327,549	Oct. 6	64	14	33	13
Harwood, Herbert J., Littleton, assignor to Harwood Manufacturing Company, Leominster, Mass. Folding chair or settee	330,698	Nov. 17	1693	457	33	845
Harwood Manufacturing Company. (See Harwood, Herbert J., assignor.)						
Harwood, T. M., et al. (See Watts, Henry P., assignor.)						
Haselton, Daniel B., Charleston, S. C., assignor to Southern Cotton Picking Company, of South Carolina. Cotton-harvester	313,421	Mar. 3	532	140	30	876
Haselton, Daniel B., Charleston, S. C., assignor to Southern Cotton Picking Company, of South Carolina. Cotton-harvester	313,422	Mar. 3	533	140 } 141 }	30	876
Haselton, Daniel B., assignor to Southern Cotton Picking Company, Charleston, S. C. Cotton-harvester	319,710	June 9	998	264	31	1241
Haselton, Daniel B., Charleston, S. C., assignor to Southern Cotton Picking Company, of South Carolina. Cotton-harvester	328,116	Oct. 13	795	207	33	150
Hasenclever, Friedrich A., Düsseldorf, Germany, assignor to Patent Nut and Bolt Company, (limited,) London Works, England. Nut-forging machine	310,680	Jan. 13	667	183	30	133
Haskell, Charles S. (See Roosevelt and Haskell.)						
Haskell, Charles S., Philadelphia, Pa. Time-recording apparatus	319,092	June 2	195	51, 52	31	1081
Haskell, Frank N., Worcester, Mass. Coating for wire-drawing	325,537	Sept. 1	434		32	1699
Haskell, H. Stewart, et al. (See Reece, George L., assignor.)						
Haskell, John T., assignor of one-half to H. E. Streater, Norwalk, Ohio. Scaffolding	311,578	Feb. 3	161	46	30	379
Haskins, Abel, Chicopee, Mass. Sash-holder	324,252	Aug. 11	1173	311	32	745
Haskins, Charles A., Chicago, Ill. Dish-washer	320,452	Nov. 3	30	9	33	510
Haskins, Charles N., Columbus, Ohio. Vehicle-spring	330,023	Nov. 10	815	209	33	664
Haskins, Harry S. (See Sprozell and Haskins.)						
Haslam, Henry F., New Britain, Conn. Chalk-line reel	320,355	June 23	2207	583	31	1473
Haslam, Mark, Stockport, county of Chester, assignor to MacQueen & Co., London, England. Hat-sweat	311,751	Feb. 3	379	104	30	420
Haslam, Thomas J., Dublin, Ireland. Saddle-bar	327,165	Sept. 29	2639	687	32	1525
Haslup, William, Sidney, Ohio. Sled	314,537	Mar. 31	2447	646	30	1223
Haslup, William, Sidney, Ohio. Scraper	316,779	Apr. 23	2440	650	31	271
Haslup, William, Sidney, Ohio. Scraper	327,794	Oct. 6	6	376	33	66
Hassall, John, and M. M. Smith, New York, N. Y. Wire-nail machine	319,485	June 9	702	188 } 189 }	31	1197
Hassall, William, Beeston, county of Nottingham, England. Joint for pipes for water, gas, electric wires, &c	318,616	May 26	2261	604	31	963
Hassan, Midbury W., Rochester, N. Y. Surgical instrument	321,721	July 7	414	110	32	77

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Hassel, Wilhelm, Hagen, Prussia, Germany. Drop-hammer.	327,082	Sept. 29	2521	657	32	1505
Hasselbusch, Hermann. (See Hasselbusch, John D. and H.)						
Hasselbusch, John D. and H., St. Louis, Mo. Grain-cleaning machine.	314,123	Mar. 17	1479	385 386	30	1068
Hassell, Richard L., Chicago, Ill. Scale-beam with indicating-poise.	330,397	Nov. 17	1315	349 350	33	772
Hasselman, Lewis W., Indianapolis, Ind. Straw-stacker.	311,317	Jan. 27	1553	423	30	306
Hassencamp, Hugo, Elberfeld, Prussia, Germany. Manufacture of benzylated methyl violet.	331,964	Dec. 8	1064		33	1198
Hassencamp, Hugo, Elberfeld, Prussia, Germany. Manufacture of benzylated acid violet.	331,965	Dec. 8	1066		33	1198
Hassenpflug, Henry, Huntingdon, Pa. Vegetable-slicer.	318,560	May 26	2200	528	31	952
Hassenpflug, Henry, Huntingdon, Pa. Washing-machine.	32,938	Oct. 27	1896	495 496	33	367
Hassinger, Reuben F., Adamsburg, Pa. Rotary pump.	319,093	June 2	198	52, 53	31	1084
Haaskarl, Gottlieb C. H., Philadelphia, Pa. Cloth-line fastener.	317,350	May 5	574	147	31	628
Haaskarl, Gottlieb C. H., Philadelphia, Pa. Railway-tie.	319,813	June 9	1150	304	31	1268
Hastings, Edwin G., Nevada, Iowa. Music-leaf turner.	310,199	Jan. 6	53	15	30	13
Hastings, Frank W., assignor to Jennings & Griffin Manufacturing Company, Wallingford, Conn. Device for making dies for forming auger-heads.	321,967	July 14	766	200	32	147
Hastings, Harry O., et al. (See Ewing, Edward, assignor.)						
Hastings, John V., et al. (See Ewing, Edward, assignor.)						
Hastings, Leander A., Worcester, Mass. Harness-loop.	329,038	Oct. 27	2053	533	33	395
Hastings, Louis E., Chicago, Ill. Cloth-drier.	328,484	Oct. 20	1274	331	33	247
Hastings, Robert E., et al. (See Ewing, Edward, assignor.)						
Hat Curling Machine Company. (See Cocker and Yule, assignors.)						
Hat Curling Machine Company. (See Tweedy and Yule, assignors.)						
Hat Curling Machine Company. (See Yule, George, assignor.)						
Hatch, Andrew J. (See Blatchly and Hatch.)						
Hatch, Azel F. (See Konecan and Scoville, assignors.)						
Hatch, Azel, Lexington, Ky. Pencil-sharpener.	328,671	Oct. 20	1543	401	33	295
Hatch, Charles E., Vallejo, Cal. Combined blacking-brush and scraper.	330,111	Nov. 10	1732	243	33	689
Hatch, Charles F., Lowell, Mass. Paper box.	328,425	Oct. 20	1275	331	33	248
Hatch, Fred A., assignor of one-half to A. M. Brownell and J. H. Murkland, New Bedford, Mass. Dial for locks.	317,772	May 12	1125	297	31	737
Hatcher, Edmund N., assignor to himself and A. C. Emmick, Columbus, Ohio. Clip for vehicle-axles.	312,465	Feb. 17	1377	320	30	620
Hatcher, Isaac M. (See Simpson, Hatcher, and Wildermuth.)						
Hatfield, Robert F., New York, N. Y. Gas-pressure regulator.	329,163	Oct. 27	2222	577	33	426
Hatfield, Robert F., New York, N. Y. Gas-pressure regulator.	331,878	Dec. 8	936	242	33	1173
Hatcher, Sidney W., Knoxville, Ga. Combined planter and fertilizer-distributor.	325,341	Sept. 1	146	41	32	1042
Hatfield, Charles B., assignor of one-half to J. C. Hughes and H. Loewer, Rochester, N. Y. Shoe-upper machine.	318,731	May 26	2400	042	31	991
Hatfield, Llewellyn T., Milan, Mo. Painting-machine.	327,264	Sept. 29	2763	717 718	32	1542
Hatfield, Sheridan L., Reading, Mass. Compound engine.	318,298	May 26	2640	700	31	1031
Hatfield, William B., assignor to J. Rodgers & Sons, (limited,) Sheffield, county of York, England. Carving-fork.	318,739	May 26	2411	643	31	992
Hatull, Thomas, assignor of one-fourth to F. E. Tracey, Mount Hope, Kans. Windmill.	321,292	June 30	3156	942	31	1656
Hathaway, George M., New York, N. Y., assignor to Hathaway's Printing Telegraph and Telephone Company. Printing-telegraph.	310,587	Jan. 13	551	152 153 154	30	112
Hathaway, George M., New York, assignor of one-half to C. D. Shepard, Mamaroneck, N. Y. Ear-ring.	331,638	Dec. 1	598	148	33	1102
Hathaway, Thomas H., New Bedford, Mass. Music leaf turner.	321,509	July 7	262	69	32	50
Hathaway's Printing Telegraph and Telephone Company. (See Hathaway, George M., assignor.)						
Hatheway, Edwin E., Oriskany Falls, N. Y. Wagon-gear.	327,265	Sept. 29	2775	718	32	1548
Hatheway, William E., Unionville, Conn. Marking or graduating machine.	324,319	Aug. 11	1248	339	32	763
Hatmaker, Adam H., Iuka, Ill. Gate.	312,466	Feb. 17	1377	380	30	621
Hatmaker, Adam H., Iuka, Ill. Tree-box.	316,202	Apr. 21	1709	464	31	334
Hattersley, Charles M., Trenton, N. J. Upright piano.	320,556	June 23	2208	564	31	1473
Hatz, Casper, Big Stone City, Dak. Ter. Combined bag-holder and truck.	329,141	July 28	2755	625	32	453
Hauck, Philip, Philadelphia, Pa. Paper-box-covering machine.	330,235	Nov. 10	1085	227	33	720
Hauck, Philip, Philadelphia, Pa. Adjustable box-block for paper-box-covering machines.	332,078	Dec. 8	1274	322	33	1227
Haughev, Michael, St. Louis, Mo. Carriage-spring.	321,496	July 7	116	31	32	23
Haugk, Carl H., assignor of two-thirds to C. and C. Vogt, Brooklyn, N. Y. Cigar-butt cutter.	313,329	Mar. 3	417	104	30	853
Haugk, Carl H., assignor of two-thirds to C. and C. Vogt, Brooklyn, N. Y. Cigar-bunch mold.	313,330	Mar. 3	419	105	30	853
Haugk, Carl H., assignor of two-thirds to C. and C. Vogt, Brooklyn, N. Y. Cigar-bunching machine.	315,279	Apr. 7	414	103	31	75
Haugk, Carl H., assignor of two-thirds to C. and C. Vogt, Brooklyn, N. Y. Temporary wrapper for cigars.	320,248	June 16	1741	462	31	1381
Haulbrook, William C., Homer, Ga. Reversible plow.	324,109	Aug. 11	947	260	32	706
Haulenbeck, John H., and G. F. Brown, Philadelphia, Pa. Necktie.	312,118	Feb. 10	829	242	30	521
Hause, Joseph, Mangansville, Md. Gate.	321,215	June 30	3065	813	31	1639
Hausmann, Herman, Chicago, Ill. Artificial leg.	317,644	May 12	961	248	31	706
Havell, George, Newark, N. J. Shoe or glove buttoner.	322,224	July 14	1175	308	32	223
Havell, George, and A. G. Williams, Newark, N. J., assignors to W. Demuth & Co., New York, N. Y. Combined pipe-bowl cover and stuffer.	321,104	June 30	2931	777	31	1613
Haven, Egbert D., San Francisco, Cal. Cable railway.	322,083	Sept. 29	2522	658	32	1505
Haven, W. D. (See Schumann, Francis, assignor.)						
Haverly, Curtis R., and G. E. Gary, Macon, Mo. Stove-leg.	325,171	Aug. 25	2396	659	32	991
Haviaside, John J., San Francisco, Cal. Support for whaling-guns.	324,935	Aug. 25	2091	572	32	935
Hawe, Matthew, New York, N. Y. Detachable sole.	333,126	Dec. 29	2718	714	33	1511
Hawes, Arnold C. (See Ingersoll, Simon, assignor.)						
Hawes, Henry C., and J. E. Green, 2d, Belleville, N. Y. Roofing compound.	316,964	May 5	46		31	531
Hawkes, Nathan, Appleton, Me. Door-knob attachment.	311,753	Feb. 3	321	104	30	420
Hawkins, Charles F. (See Webber, Josiah A., assignor.)						
Hawkins, Ellis S., Columbus, Ohio. Carriage-seat iron.	313,331	Mar. 3	419	105	30	853
Hawkins, Edward V., Connersville, Ind. Bureau.	331,966	Dec. 8	1067	276	33	1198
Hawkins, Eugene W. J. (See Coats, Milo L., assignor.)						
Hawkins, Frederick H., Brooklyn, N. Y. Ice-holder for butter-dishes, &c.	315,619	Apr. 14	900	226	31	167
Hawkins, J. Wesley, Gallon, assignor to Railway Speed Recorder Company, Kent, Ohio. Lifting-jack.	314,937	Mar. 31	2529	695 696	30	1307

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Hawkins, James D., Brazil, Ind. Tag-holder	310,201	Jan. 6	56	15	30	12
Hawkins, James M., <i>et al.</i> (See Platt, Albert L., assignor.)						
Hawkins, John G., Wigan, county of Lancaster, England. Purifying coal-gas	328,309	Oct. 13	1034		33	106
Hawkins, John T., Taunton, Mass. Machine for varnishing printed sheets of paper	310,200	Jan. 6	54	15	30	13
Hawkins, John T., Taunton, Mass. Fire hose case or box	311,752	Feb. 3	390	104	30	420
Hawkins, John T., Taunton, Mass. Buffer-spring for printing-presses	313,205	Mar. 3	243	61	30	523
Hawkins, John T., Taunton, Mass. Ink-fountain for printing-presses	318,617	May 26	2262	604	31	963
Hawkins, John T., Taunton, Mass. Frictional lock-nut	318,618	May 26	2263	604	31	963
Hawkins, John T., Taunton, Mass. Mechanism for operating beds of printing-machines	319,248	June 2	379	102	31	1119
Hawkins, John T., Taunton, Mass. Sheet-delivery mechanism for printing-presses	319,249	June 2	380	102	31	1119
Hawkins, John T., Taunton, Mass. Sheet-delivery apparatus	323,329	July 28	2629	700	32	521
Hawkins, John T., Taunton, Mass. Sheet-delivery apparatus for printing-presses	323,330	July 28	2631	700	32	502
Hawkins, John T., Taunton, Mass. Sheet-delivery apparatus for printing-presses	323,331	July 28	2633	700	32	502
Hawkins, John T., Taunton, Mass. Oscillating-cylinder printing-machine	324,253	Aug. 11	1154	314	32	745
Hawkins, John T., Taunton, Mass. Inking apparatus for printing-machines	326,215	Sept. 15	1332	345	32	1275
Hawkins, John T., Taunton, Mass. Sheet-delivery for oscillating-cylinder printing-machines	326,216	Sept. 15	1334	345	32	1275
Hawkins, John T., Taunton, Mass. Sheet-delivery for oscillating-cylinder printing-machines	328,339	Oct. 27	1897	496	33	368
Hawkins, John T., Taunton, Mass. Type-bed for printing-machines	328,940	Oct. 27	1899	476	33	369
Hawkins, John T., Taunton, Mass. Web-perfecting printing-machine	332,518	Dec. 15	1849	483	33	1341
Hawkins, John T., Taunton, Mass. Web-perfecting printing-machine	332,519	Dec. 15	1854	485	33	1341
Hawkins, John T., Taunton, Mass. Paper-folding machine	332,520	Dec. 15	1858	486	33	1342
Hawkins, John T., Taunton, Mass. Web-perfecting printing-machine	332,521	Dec. 15	1861	486	33	1342
Hawkins, John T., Taunton, Mass. Cylinder printing-machine	333,070	Dec. 22	2625	688	33	1438
Hawkins, John T., Taunton, Mass. Sheet-delivery apparatus for printing-machines	333,071	Dec. 22	2629	689	33	1438
Hawkins, John T., Taunton, Mass. S. R. Preston, Brooklyn, N. Y. Apparatus for setting lithographic stones	323,332	Aug. 11	711	199	32	675
Hawkins, John W., Munfordville, Ky. Tobacco-plant setter	331,498	Dec. 1	343	91	33	1039
Hawkins, Lorenzo D., Stoneham, Mass., assignor to Combination Power Punch Eyeletting Machine Company. Eyeletting-machine	325,077	Aug. 25	2279	620	32	970
Hawkins, Lorenzo P., Portland, Me. Insole for boots or shoes	310,780	Apr. 28	2492	650	31	471
Hawkins, Marcus E., Lansingburg, N. Y. Device for upsetting the ends of metal pipes	333,410	Dec. 29	3101	808	33	1578
Hawkins, Moses C., Edinborough, Pa. Time-lock	314,538	Mar. 31	2447	646	30	1283
Hawkins, Moses C., Edinborough, Pa. Pendulum engine-governor for vessels	330,699	Nov. 17	1684	457	33	846
Hawkins, Philemon. (See Pierce, Mortimer K., assignor.)						
Hawkins, Robert H., deceased, New Haven, Conn., H. G. Newton, administrator. Sewing-machine	316,263	Apr. 21	1768	465	31	324
Hawkins, Thomas S., Chattanooga, Tenn. Brick-kiln	317,351	May 5	514	147	31	628
Hawkins, William A., New York, N. Y. Deodorizing and disinfecting apparatus	329,645	Nov. 3	227	75	33	561
Hawks, George E., assignor of one-half to E. A. Hill, Highland Park, Ill. Safety-gate for draw-bridges	332,899	Dec. 22	2388	631	33	1445
Hawksworth, David, Plattsmouth, Nebr. Destroying grass, weeds, &c., on railway-tracks	330,700	Nov. 17	1605	457	33	846
Hawksworth, David, Plattsmouth, Nebr. Device for destroying vegetation along railway-tracks	330,701	Nov. 17	1607	458	33	846
Hawley, Alfred A., Baltimore, Md., assignor to Merino Shoe Company, Kennebunk, Me. Manufacturing foot-wear made of combined textile and felting material	322,285	July 14	1175	308	32	924
Hawley, Andrew T., Alton, Ill. Grain-separator	311,967	Dec. 8	1068	277	33	1198
Hawley, Benjamin R., Chicago, Ill. Laundry-reel	322,538	July 21	1532	401	32	972
Hawley, Clinton, Mulberry Grove, Ill. Rotary harrow	321,105	June 30	2252	777	31	1613
Hawley, Eli J., Manchester, Vt. Sand and water feeding mechanism for stone sawing or rubbing machines	321,293	June 30	2158	842	31	1656
Hawley, Harry H., Malone, N. Y. Lamp-wick trimmer	332,900	Dec. 22	2393	632	33	1446
Hawley, John S., Brick Church, N. J., and H. W. Hoops, New York, N. Y. Marking chocolate-cream drops and other confectionery	321,216	June 30	3066	813	31	1639
Hawley, Joseph H., Danbury, Conn. Water-closet apparatus handle	311,952	Feb. 10	714	195	30	488
Hawley, Joseph M., Philadelphia, Pa. Cuff-retainer	333,297	Dec. 29	2956	772	33	1538
Hawley, Melville C. (See Kearney and Hawley.)						
Hawley, Theodore, Fairfield, Conn. Colored water-proof fabric	310,275	Jan. 6	152	42	30	30
Hawley, Theodore, Fairfield, Conn. Fastening for shoes, gloves, &c.	329,901	Nov. 10	649	165	33	633
Hawley, Theodore, assignor of one-half to E. W. Harral, Fairfield, Conn. Making water-proof fabrics	331,294	Dec. 1	57	14	33	1610
Hawley, William G., assignor of one-half to F. A. Blakeley, Hanford, Cal. Splitting-saw	331,195	Nov. 24	2336	637	33	975
Haworth, George D., Chicago, Ill. Corn-planter	314,250	Mar. 24	1621	423	30	1104
Haworth, George D., Chicago, Ill. Corn-planter	314,250	Mar. 24	1622	423	30	1104
Haworth, George D., Chicago, Ill. Metallic felly	319,410	June 2	579	173	31	1156
Haworth, George D., Chicago, Ill. Check-roller	323,036	July 28	2219	587	32	425
Hawthorn, John, and J. P. Liddell, Newtown, county of Chester, England. Construction of drying-cylinders	322,901	Dec. 22	2394	632	33	1446
Hawthorne, Robert H., New York, N. Y. Sewing-machine	312,467	Feb. 17	1379	361	30	621
Haxtum, William E., Kewanee, Ill. Vertical boiler	330,024	Nov. 10	817	209	33	664
Hay, Frank C., <i>et al.</i> (See Duncan, James, assignor.)						
Hay, Houston. (See Horn, Ferdinand, assignor.)						
Hay, John, Tracy, Cal. Harvester	330,078	Nov. 24	2061	557	33	921
Hay, John, Rochester, assignor to J. E. Thomson, Marion, N. Y. Watch-barrel	316,965	May 5	46	12	31	531
Haycox, William E., Cleveland, Ohio. Holder for sliding doors	317,352	May 5	575	148	31	628
Hayden & Boyd. (See Fontaine and Kesters, assignors.)						
Hayden, Charles H. (See Hayden, William B. and C. H.)						
Hayden, Charles J. S., Worcester, Mass. Spring locking-clasp for garments	317,645	May 12	962	248	31	706
Hayden, Harris H., New York, N. Y. Store-service apparatus	321,294	June 30	3159	843	31	1637
Hayden, Hiram W., Waterbury, Conn. Watch	312,848	Feb. 24	1892	518	30	722
Hayden, Hiram W., assignor to Holmes, Booth & Haydens, Waterbury, Conn. Lamp-burner	322,599	July 21	1606	424	32	308
Hayden, Horace L., assignor of one-half to H. C. Goodspeed, Boston, Mass. Head for fabric take-up devices for knitting-machines	317,773	May 12	1126	297	31	737

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Hayden, Horace L., assignor of one-half to H. C. Goodspeed, Boston, Mass. Spinning ring and traveler	327,550	Oct. 6	65	15	33	13
Hayden, James T., Boston, Mass. Pipe-wrench	324,378	Aug. 18	1329	361	32	785
Hayden, Miles, and W. C. Dixon, Gay Hill, Tex. Lock for sliding doors	330,236	Nov. 10	1086	287	33	720
Hayden, William B., Columbus, Ohio. Time-lock mounting	312,119	Feb. 10	890	242	30	521
Hayden, William B., Columbus, Ohio. Elevating mechanism for buildings	318,373	May 19	1933	521	31	896
Hayden, William B. and C. H., Columbus, Ohio. Fire-proof floor	316,361	Apr. 21	1896	501	31	356
Haydn, George, Baltimore, Md. Bilge-water ejector	322,374	July 14	1295	339	32	246
Haydn, George, assignor of two-thirds to B. B. and J. Friedenwald, Baltimore, Md. Fluid-ejector for draining cellars	318,185	May 19	1678	450	31	849
Haydn, George, assignor of two-thirds to B. B. and J. Friedenwald, Baltimore, Md. Valve for water-closets, &c.	318,899	May 26	2641	700	31	1032
Haydon, William, <i>et al.</i> (See Munzinger, Peter, assignor.)						
Hayes, Carl E., Brooklyn, assignor of two-thirds to C. Reissner and C. E. Meier, New York, N. Y. Bolt	316,619	Apr. 28	2248	592	31	427
Hayes, Charles C. Penn Yan, N. Y. Spring-carriage	321,106	June 30	2832	777	31	1613
Hayes, Charles W., Washington, D. C. Shell	325,538	Sept. 1	435	108	32	1099
Hayes, Cornelius, Oswego, N. Y. Grain-elevator	317,333	May 5	576	148	31	629
Hayes, Edwin P., Deer Lake, Mich. Trip-saw	328,466	Oct. 20	1276	331	33	248
Hayes, Eli B., Big Rapids, Mich. Gang-bit boring-machine	314,194	Mar. 17	1480	386	30	1068
Hayes, Elihu B., Lynn, Mass. Ticket-punch	314,241	Mar. 24	1624	429	30	1104
Hayes, George. (See Reillé, Richard H., assignor.)						
Hayes, George, New York, N. Y. Ventilating-louver	313,865	Mar. 17	1139	294	30	1004
Hayes, George, New York, N. Y. Skylight (Release)	10,581	Apr. 21	2003	526	31	1374
Hayes, George, New York, N. Y. Metallic skylight-bar. (Release)	10,782	Apr. 21	2004	527	31	375
Hayes, George, New York, N. Y. Apparatus for heating water in bath-tubs	317,940	May 12	1349	363	31	780
Hayes, George, New York, N. Y. Machine for forming clamps in sheets of metal	325,577	Sept. 22	1772	464	32	1365
Hayes, Harrison, Portland, Me. Tube-expander	325,244	Sept. 1	15	6	32	1018
Hayes, Isaac, Philadelphia, Pa. Range or stove	310,276	Jan. 6	153	42	30	30
Hayes, Isaac, Philadelphia, Pa. Open fire-place	310,277	Jan. 6	154	43	30	30
Hayes, James H., Faxon, Minn. Car-coupling	319,250	June 2	323	102	31	1120
Hayes, Joseph, assignor, by means assignments, to himself and G. S. Frost, Dover, N. H. Nut-lock	330,237	Nov. 10	1087	287	33	721
Hayes, Lewis S., Cortland, N. Y. Wood ornamentation	312,449	Feb. 24	1895		30	723
Hayes, Martin P., assignor of one-half to F. M. Atkinson, Chicago, Ill. Coating metals	317,533	May 12	818	210	31	6-0
Hayes, Martin P., Chicago, Ill., assignor of one-half to J. M. Duncan, Warsaw, N. Y. Evaporating apparatus for brine, &c.	321,025	June 30	2823	750	31	1595
Hayes, Samuel J., Pittsburg, Pa. Apparatus for carbureting and odorizing natural gas	316,033	Apr. 21	1463	382	31	278
Hayes, William H., Paterson, N. J. Apparatus for cooling beer, &c.	325,742	Sept. 8	714	178	32	1133
Haylock, John W. (See Haylock, Layton and J. W.)						
Haylock, Layton and J. W., Grimby, England. Rubber sole for boots or shoes	328,777	Oct. 20	1665	434	33	319
Hayner, William D., and C. W. Mangus, Gilliam, Mo. Check-row corn-planter	323,724	July 28	2622	697	32	500
Haynes, Archibald C. (See Haynes, Edward B., assignor.)						
Haynes, Carlos B., North Adams, Mass. Starching and tentering machine	320,249	June 16	1742	463	31	1381
Haynes, Carlos B., North Adams, Mass. Fender for carriage-wheels	328,941	Oct. 27	1900	496	33	368
Haynes & Co., John C. (See Washburn, G. Arthur, assignor.)						
Haynes, Edgar K., Boston, Mass. Necktie-holder	317,354	May 5	577	148	31	629
Haynes, Edgar K., Boston, Mass. Lantern	322,448	July 21	1399	367	32	271
Haynes, Edgar K., assignor of one-half to G. W. Gregory, Boston, Mass. Hard-rubber filter-case	316,457	Apr. 28	2048	537	31	389
Haynes, Edward B., assignor to A. C. Haynes, Baltimore, Md. Pedal attachment for pianos	311,754	Feb. 3	382	105	30	490
Haynes, Edward B., assignor to A. C. Haynes, Baltimore, Md. Piano-stool	315,779	Apr. 14	1118	293	31	210
Haynes, William, assignor of one-half to J. Tremlett and W. H. Lee, St. Louis, Mo. Apparatus for steering boats, &c.	331,499	Dec. 1	345	93	33	1060
Hays, Charles W., Orange, N. J. Elevator	311,489	Feb. 3	37	11	30	356
Hays, William L., Greenwich, county of Kent, England. Transposing-piano	326,871	Sept. 22	2243	584	32	1448
Hayward, Clarence A., Providence, R. I. Portable bath-tub	321,217	June 30	3066	814	31	1639
Hayward, Emma L. (See Thompson, William G., assignor.)						
Hayward, Jacob L., Framingham, Mass. Machine for extracting from pulverized ores gold and silver	320,655	June 23	2341	619	31	1498
Hayward, Jacob L., Framingham, Mass., assignor of two-thirds to T. C. and T. C. Simon-ton, Jr., Paterson, N. J. Rock-pulverizer	323,674	Aug. 4	321	109	32	594
Hayward, Jacob L., Framingham, Mass., assignor of two-thirds to T. C. and T. C. Simon-ton, Jr., Paterson, N. J. Machine for extracting gold, &c., from pulverized ores	329,932	Nov. 3	553	141	33	608
Hayward, John W., St. John's, Newfoundland. Bottle-cork attachment	328,672	Oct. 20	1544	402	33	295
Haywood Bros. & Co. (See Piper, James S.)						
Haywood, Charles M. (See Thayer, William S., assignor.)						
Haywood, Cornelius, Chicago, Ill. Screen for sizing ore, &c.	319,486	June 9	704	189	31	1187
Hazard, Edward C., Shrewsbury, N. J. Preparing celery-salt	331,134	Nov. 24	2264		33	958
Hazard, Edward C., Shrewsbury, N. J., assignor of one-half to F. Green, New York, N. Y. Can	314,839	Mar. 31	2449	647	30	1283
Hazard, Evan M. (See Sullivan and Hazard.)						
Hazard, Henry T. (See Earl and Hazard.)						
Hazard, Henry T., Los Angeles, Cal. Cartridge-shell crimper	332,712	Dec. 22	2145	567	33	1400
Hazard, James S., Newport, R. I., assignor to J. Matthews, New York, N. Y. Regulator for gases or fluids under pressure	314,020	Mar. 17	1343	349	30	1044
Hazard, Rowland R., New York, N. Y. Underground railway-structure	314,021	Mar. 17	1344	350	30	1044
Hazard, Rowland R., New York, N. Y. Non-resonant material for the construction of buildings, railway-tunnels, railway-carriages, &c.	316,543	Apr. 28	2154		31	409
Hazard, Rowland R., New York, N. Y. Structure designed to occupy the streets	328,027	Oct. 13	676	177	33	129
Hazard, Rowland R., New York, N. Y. Transfer railway station or terminus	329,164	Oct. 27	2229	577	33	426
Hazel, Isaac. (See Hazelton, Elias, assignor.)						
Hazel, William M., New York, N. Y. Button-setting instrument	333,411	Dec. 29	3102	806	33	1578
Hazelrigg, Albert W., F. A. Jacob, and H. P. Hood, Indianapolis, Ind., assignors to said Hazelrigg, H. Scott, Jefferson County, Ky., and M. C. Woods, Indianapolis, Ind. Signal-lantern	326,293	Sept. 15	1445	377	32	1296

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Hazleton, Elias, assignor to I. Hazel, Brantford, Ontario, Canada. Cutting apparatus for reaping and mowing machines.	331,968	Dec. 8	1069	277	33	1199
Hazleton, Frank R., Concord, N. H. Umbrella-displayer.	322,600	July 21	1607	425	32	308
Hazleton, George H., Boston, Mass. Tea or sugar caddy.	313,666	Mar. 10	854	222	30	946
Hazleton, Milton W., Chicago, Ill. Locomotive-boiler.	311,318	Jan. 27	1554	424	30	306
Hazleton, Milton W., New York, N. Y. Sleeping-car.	319,711	June 9	1000	284 285	31	1241
Hazleton, Milton W., assignor of one-half to E. S. T. Kennedy, New York, N. Y. Steam-boiler.	310,891	Jan. 20	932	254	30	128
Hazleton, Milton W., New York, N. Y., assignor of one-half to W. N. Evans, Chicago, Ill. Traction-engine.	311,319	Jan. 27	1555	424	36	306
Hazleton, Milton W., Chicago, Ill., assignor of one-half to Babcock & Wilcox Company, New York, N. Y. Feed-water heater and purifier.	326,082	Sept. 8	1148	292	32	1234
Hazen, Edward H., Davenport, Iowa. Car-seat rest and fire-escape.	324,839	Aug. 25	1965	539	32	911
Hazen, Perley F. (See Spencer and Hazen.)						
Hazlett, William W., Toronto, Ohio. Fire-proof door.	326,735	Sept. 22	2050	534	32	1413
Head, Thomas. (See Martin and Head.)						
Head, Thomas, Copetown, Ontario, Canada. Graining composition.	321,293	June 30	3162		31	1657
Headen, Minnis, assignor of seven-eighths to D. W. Frizzell, Christiansburg, Va. Oliver.	325,342	Sept. 1	148	41	32	1043
Headington, Nimrod, and J. S. Malin, Portland, Ind. Spring for doors and gates.	317,132	May 5	270	68	31	573
Headley, Frank J., Milton, N. J. Can-fastener.	315,280	Apr. 7	416	104	31	75
Headly, Charles B., Philadelphia, Pa. Frame for eyeglasses and spectacles.	318,733	May 26	2412		31	992
Headly, Charles B., Philadelphia, Pa. Frame for eyeglasses and spectacles.	318,734	May 26	2412		31	992
Headford, Edwin V., Cincinnati, Ohio. Weather-strip.	318,264	Apr. 21	1770	465	31	334
Head, Charles W., Moline, Ill. Drive-chain.	310,907	Jan. 20	1091	299	30	216
Heald, Leander S., Barre, Mass. Hay-tedder.	330,112	Nov. 10	933	243	33	690
Healey, James A., Wakefield, Mass. Carriage-body.	313,591	Mar. 10	756	199	30	927
Healey, James A., Wakefield, assignor to himself and E. S. Healer, Lynn, Mass. Crib.	318,111	May 19	1598	424	31	832
Healy, Byron J., Kalamazoo, Mich. Automatic flushing apparatus.	316,966	May 5	48	12	31	531
Healy, Clarence L., Brooklyn, assignor to S. D. Field, Yonkers, N. Y. Armature for dynamo-electric machines.	314,242	Mar. 24	1625	430	30	1106
Healy, Clarence L., Brooklyn, assignor to S. D. Field, Yonkers, N. Y. Controlling circuits of printing-telegraphs.	326,064	Sept. 8	1150	293	32	1234
Healy, Clarence L., Brooklyn, assignor to S. D. Field, Yonkers, N. Y. Transmitter for printing-telegraphs.	330,238	Nov. 10	1088	287 288	33	721
Healy, Clarence L., Brooklyn, assignor to S. D. Field, Yonkers, N. Y. Transmitter for printing-telegraphs.	330,239	Nov. 10	1090	288	33	721
Healy, Clarence L., Brooklyn, assignor to S. D. Field, Yonkers, N. Y. Printing-telegraph.	333,298	Dec. 29	2957	773	33	1554
Healy, William J., Susquehanna, Pa. Locomotive driving-box.	317,774	May 12	1127	297	31	737
Heap, William, Owen Sound, Ontario, Canada. Apparatus for operating dry-earth closets.	327,266	Sept. 29	2766	718	32	1548
Heaphy, Michael J., Lincoln, Neb. Whip.	315,321	Apr. 7	417	104	31	75
Heard, John B., Bowling Green, Ky. Stump-extractor.	331,054	Nov. 24	2146	592	36	937
Heard, Thomas H., Sheffield, county of York, England. Horseshoe and horseshoe-blank.	320,471	June 23	2099	553	31	1453
Heard, William, Brooklyn, N. Y. Brick.	314,022	Mar. 17	1346	350	30	1044
Hearne, Andrew J., Battleborough, N. C. Manure-drill.	320,133	June 16	1596	422	31	1354
Heartwell, Oscar F., Jr., assignor of one-half to A. D. Place, Des Moines, Iowa. Broadcast seed-sower.	319,411	June 2	580	158	31	1158
Heath, Edward H., and F. W. Moore, Waupun, Wis. Mowing-machine.	326,028	Oct. 13	677	178	33	130
Heath, Edward H., and F. W. Moore, Waupun, Wis. Reaping and mowing machine.	326,029	Oct. 13	678	178 179	33	130
Heath, George M., Rockingham, assignor, by mesne assignments, to said Heath, J. J. and L. F. Barnes, Westminster, Va. Fire-escape.	315,025	Apr. 7	51	12	31	11
Heath, Harris T. (See Gary and Heath.)						
Heath, James S., assignor to J. O. and W. S. Wisner and E. L. Gould, Brantford, Ontario, Canada. Combined seeding and drilling machine.	324,321	Aug. 11	1251	340	32	763
Heath, Joseph C. (See Moore, William A., assignor.)						
Heath, William R., Sedalia, Mo. Portable roof for hay and grain racks.	318,948	May 19	1761	471	31	865
Henthcote, Thomas, Allegheny City, Pa. Stone-lifter.	314,243	Mar. 24	1626	430	30	1105
Heatherington, Jacob, Bellaire, Ohio. Coal-chute.	310,278	Jan. 6	155	43	30	31
Heaton Button Fastener Company. (See Sweet, Parker H., Jr., assignor.)						
Heaton, Horace L., assignor of one-half to F. Woodbridge, Indianapolis, Ind. Pitman-coupling for harvesters.	315,940	Apr. 14	1337	347	31	948
Heaton, John S., Shelbyville, Ky. Cut-off for cisterns.	312,120	Feb. 10	891	243	30	522
Hebbard, Albert H., Knoxville, Tenn. Target-trap.	322,714	July 21	1755	464	32	335
Hebbard, Albert H. and C. C., Knoxville, Tenn. Target-trap.	332,902	Dec. 22	2395	633	33	1446
Hebbard, Charles C. (See Hebbard, Albert H. and C. C.)						
Hebblewhite, James, and E. Holt, Manchester, county of Lancaster, England. Figured fabric or material for floor-cloth, water-proof cloth, &c.	322,601	July 21	1608		32	308
Hebel, Peter. (See Straubel and Hebel.)						
Heber, Robert, Titusville, Pa. Safety-shield for gas-mains.	316,967	May 5	49	13	31	531
Heberlein Self Acting Railway Brake Company. (See Bandel, Wilhelm, assignor.)						
Heberling, John, Cleveland, Ohio, and W. L. Heberling, Bath, Ill. Sewing-machine shuttle.	311,490	Feb. 3	38	11	30	356
Heberling, John, Cleveland, Ohio, and W. L. Heberling, Bath, Ill. Sewing-machine shuttle.	311,491	Feb. 3	40	11	30	356
Heberling, William L. (See Heberling, John and W. L.)						
Hebert, Arthur J. (See Hebert, Louis H. and J. J., assignors.)						
Hebert, Joseph J. (See Hebert, Louis H. and J. J.)						
Hebert, Louis H., St. Johns, and J. J. Hebert, assignors of one-third to A. J. Hebert, St. Henri, Quebec, Canada. Car-brake.	320,351	June 16	1921	506	31	1411
Hebert, Peter, assignor of one-half to B. F. Royer, Burr Oak, Kans. Nut-lock.	314,573	Mar. 31	2063	556	30	1216
Hecht, Jacob, et al. (See Gornall, Richard, assignor.)						
Heck, Charles H. (See Smith and Heck.)						
Heckart, John. (See Taylor, Hiram, assignor.)						
Hecker, Edwin A., and C. F. McKhann, New Madison, Ohio. Composition for suppositories.	327,267	Sept. 29	2767		32	1549
Hecker, John V., New York, N. Y. Bolting-machine for flour-mills, &c.	318,983	June 2	72	18, 19	31	1061
Hecker, John V., New York, N. Y. Driving mechanism for roller-mills.	326,600	July 7	263	69	32	50
Heckert, William, assignor to G. H. Scribner, Yonkers, N. Y. Grip for cable railways.	316,619	May 26	2264	604	31	963
Heckert, William, assignor to G. H. Scribner, Yonkers, N. Y. Cable railway.	318,620	May 26	2265	605	31	964
Heckert, William, assignor to G. H. Scribner, Yonkers, N. Y. Supporting traction-cables on curves.	318,621	May 26	2267	605	31	964

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Hedla Electric Light Company. (See Jackson, Charles T., assignor.)						
Hedden, W. A. (See Greener, Richard, assignor.)						
Heddon, James, Dowagiac, Mich. Bee-hive	327,268	Sept. 29	2767	{ 718 719 }	32	1549
Hedges & Co., A. J. (See Obrig, John, assignor.)						
Hedges, Jasper J., Athol, Mass. Bevel for draftsmen or artificers	312,964	June 2	73	19	31	1061
Hedges, Samuel P., Greenport, N. Y. Steam-boiler	316,144	Apr. 21	1620	424	31	307
Hedley, Edward E., assignor of one-half to N. C. Hedley, New York, N. Y. Smoke-consumer	317,775	May 12	1122	292	31	738
Hedley, N. C. (See Hedley, Edward E., assignor.)						
Hedrick, Du-kin, Greenville, Cal. Brake-block holder	322,099	July 14	945	245	32	189
Hedl, Albert, and G. D. Hall, Barnesville, Ohio. Cigar-perforating machine	324,936	Aug. 25	2093	573	32	935
Heeley, Richard, Birmingham, county of Warwick, England. Rim for velocipede-wheels	315,926	Apr. 7	52	12	31	11
Heenan, Richard H., and R. H. Froude, Manchester, county of Lancaster, England. Rotary engine or pump	312,116	Feb. 10	887	{ 241 242 }	30	521
Heesen, Hendrick. (See Brewer and Heesen.)						
Heesen, Hendrick, assignor to himself, A. L. Brewer, H. W. Conklin, C. J. Brewer, and H. Stout, Tecumseh, Mich. Clay-crusher	313,332	Mar. 3	420	105	30	854
Heffernan, Edward F., Lockport, N. Y., assignor to R. J. Quigley, Toronto, Canada. Watch-case hinge	319,814	June 9	1151	304	31	1268
Heffernan, Edward F., Lockport, N. Y., assignor to R. J. Quigley, Toronto, Canada. Watch-case	322,449	July 21	1400	367	32	271
Heffey, Samuel, Rochester, Ind. Sand-band for vehicle-axles	321,435	July 7	27	7	32	8
Heffarty, Samuel. (See Stigors, John G., assignor.)						
Hegeman, W. A. Ouden. (See Monsanto, Maurice M., assignor.)						
Hegeman, W. A. Ouden, New York, N. Y. Apparatus for purifying water and other fluids	327,269	Sept. 29	2769	719	32	1549
Hegler, Almer. (See Drais and Hegler.)						
McLennan, Eyvind L., assignor of one-half to J. A. McLennan, Chicago, Ill. Car brake and starter	321,212	June 30	3067	814	31	1639
Heilborn, Francis F., assignor to Lincoln, Bacon & Co., Plainville, Mass. Chain bracelet	312,994	Feb. 24	2079	567	30	756
Heilbronner, Henry, and H. A. Rosback, Springfield, Ill. Barrel-stand	317,133	May 5	271	68	31	573
Heiles, Gustav, New York, N. Y. Combined button-hook and coat-hanger	315,500	Apr. 14	734	191	31	135
Heilman, Russell P., Emporium, Pa., and R. B. Perkins, Hornellsville, N. Y. Tricycle hobby-horse	325,402	Sept. 1	261	65	32	1064
Heiman, Salomon, London, England, assignor to F. L. Pommer, New York, N. Y. Lamps for electric lamps	326,979	Sept. 29	2398	625	32	1481
Heimann, Frank, Buffalo, N. Y. Ash-sifter	332,394	Dec. 15	1681	440	33	1312
Hein, Christian, McKownville, N. Y. Wagon-tongue support	331,325	Nov. 24	2416	654	33	985
Hein, Herman. (See Hennings, Wilhelm G., assignor.)						
Heine, August, Silver Creek, N. Y. Centrifugal flour-bolt	316,968	May 5	50	13	31	532
Heine, August, Silver Creek, N. Y. Bran-duster	322,715	July 21	1756	454	32	336
Heine, August, Silver Creek, N. Y. Bolting-reel	323,143	July 28	2357	626	32	453
Heine, August, Silver Creek, N. Y. Clothing for bolting reels	323,579	Aug. 4	256	75	32	569
Heiney, Thomas B., and C. G. Lauck, Bucyrus, Ohio. Wrench	332,522	Dec. 15	1863	427	33	1342
Heingartner, Fred J. (See Huh, John, assignor.)						
Heinig, Frederick E. (See Brinly and Heinig.)						
Heinig, Friedrich W., Milwaukee, Wis. Fur-case	322,673	Oct. 20	1544	452	33	295
Heinrichs, Charles F., New York, N. Y. Apparatus for making curved carbons	317,776	May 12	1129	294	31	732
Heinrichs, Charles F., New York, N. Y. Electric lamp	317,777	May 12	1130	{ 298 299 }	31	738
Heinrichs, Charles F., New York, N. Y. Electric lamp	317,778	May 12	1132	{ 299 300 }	31	739
Heinrichs, Charles F., New York, N. Y. Dynamo-electric machine	317,779	May 12	1135	{ 300 301 }	31	739
Heins, Charles L. (See Lieb and Heins.)						
Heintz, Charles F. (See Pfeiffer, Jacob, assignor.)						
Heintz, Christian and G. M., Buffalo, and A. Dotterweich, Dunkirk, N. Y.; said Dotterweich assignor to said Christian and G. M. Heintz. Combined air-pressure apparatus and refrigerator	311,831	Feb. 3	478	130	30	438
Heintz, George M. (See Heintz and Dotterweich.)						
Heintz, Philip, Unionville, assignor of one-half to W. O. Way, Newington Junction, Conn. Letter-box	331,196	Nov. 24	2356	637	33	975
Heintzelman, Taylor W. (See Bonaith and Heintzelman.)						
Heinze, Charles E., Newark, N. J. Bridle-bit	326,648	Sept. 22	1899	499	32	1327
Heinze, Louis, Newark, N. J. Incandescent electric lamp	319,380	June 9	629	219	31	1210
Heinzer, William L., and H. B. Gillingham, Philadelphia, Pa. Flame-fastener	321,626	June 30	2825	751	31	1505
Heinzerling, Christian, Frankfort-on-the-Main, Germany. Steam-motor	311,983	Feb. 10	715	196	30	488
Heinzerling, Christian, Frankfort-on-the-Main, Germany. Generating steam and utilizing exhaust	311,984	Feb. 10	717	196	30	488
Heiser, Adolph T., Scranton, Pa. Handle for shovels and spades	330,481	Nov. 17	1425	381	33	792
Heisey, Augustus H. (See Ripley, Heisey, and Swift.)						
Heiskell, Daniel L. (See Paull and Heiskell.)						
Heisler, Charles, St. Louis, Mo. Incandescent electric lamp	327,795	Oct. 6	377	98	31	66
Heisler, Charles, St. Louis, Mo. Incandescent electric lamp	327,796	Oct. 6	380	98	31	67
Heisler, Charles, St. Louis, Mo. Incandescent electric lamp	330,586	Nov. 17	1550	415	33	816
Heiss, Charles E., assignor of one-half to J. N. Raymond, Chicago, Ill. Plumber's trap	314,670	Mar. 31	2204	585	30	1237
Heist, Henry A., et al. (See Wallick, Marion, assignor.)						
Heiders, Alphonse. (See Loze and Heiders.)						
Heidreich, Joseph W., assignor of one-half to N. G. Dillon, Pattonsburg, Mo. Churn	322,058	July 14	891	231	32	170
Heifuer, Simon, assignor to O. C. Hansen, Milwaukee, Wis. Glove or mitten	321,497	July 7	117	31	32	23
Heller, Andrew, New York, N. Y. Combined detachable pocket and cap	314,333	Mar. 24	1753	467	30	1128
Heller, L. Albert, Philadelphia, Pa. Spring bed-bottom	328,117	Oct. 13	797	{ 207 208 }	33	151
Hellerstedt, Peter F., Morrison, Ill. Two-wheeled vehicle	311,244	Jan. 27	1449	395	30	287
Hellings, Andrew J., Philadelphia, Pa. Combination-gage	310,420	Jan. 6	336	92	30	65
Hellings, John, Philadelphia, Pa. Grib for cable railways	331,055	Nov. 24	2146	{ 582 583 }	33	937
Helliwell, Robert B., assignor of one-half to D. Sr., and P. J. Steinmetz, Philadelphia, and D. Steinmetz, Jr., Colmar, Pa. Steam-trap	318,249	May 19	1762	471	31	865
Hellman, Abraham M., St. Louis, Mo. Metallic cover for barrel-heads	325,930	Sept. 8	940	248	32	1196
Hellmuth, Frederick C., assignor to himself and J. Munz, Jr., Brooklyn, N. Y. Carpet-fastener	314,671	Mar. 31	2205	585	30	1237
Hellwig, Maurice, Brooklyn, N. Y. Brush-machine	311,985	Feb. 10	718	196	30	488
Hellyer, Samuel S., London, county of Middlesex, England. Trap for soil and other pipes	320,435	June 16	2044	536	31	1434

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Hellyer, Samuel S., London, county of Middlesex, England. Trap for soil and other pipes.	329,388	Oct. 27	2564	{ 661 662 }	33	487
Helm, Nathan B. (See Hunt, Ferris, and Helm.)						
Helmholdt Horace T., Philadelphia, Pa. Burglar-alarm.	310,421	Jan. 6	337	92	30	66
Helme, William, Philadelphia, Pa. Automatic pressure-regulator for gas-governors.	328,942	Oct. 27	1801	497	33	368
Helmer, Nicolas, New York, N. Y. Air-ship.	328,218	Oct. 13	922	240	32	175
Helms, Francis M., and C. C. Trinkle, Veedersburg, Ind. Cultivator-tooth.	317,780	May 12	1138	301	31	739
Helms, Jacob H., Monroe, assignor of one-half to J. S. Grier, Matthews, and J. Stearnes, Adams Mills, N. C. Quilting-frame.	330,482	Nov. 17	1426	381	33	733
Helton, John W., assignor of one-third to M. T. Owens, Waterloo, Iowa. Latch.	316,265	Apr. 21	1771	466	31	334
Helverson, F. A. S., et al. (See Kratzer, Wayne, assignor.)						
Helvin, John A., New York, N. Y., and H. Van Hoevenbergh, Elizabeth, N. J. Wire-splicer.	326,906	Sept. 29	2292	599	32	1456
Hemelright, Henry H., and G. W. Stone, Pottstown, Pa. Combined carriage and cradle.	321,219	June 30	3069	814	31	1620
Hemenway, Nathan, Parma, Ohio. Metal packing.	331,056	Nov. 24	2148	583	33	938
Hemingway, Henry N., Auburn, assignor to W. H. Wood and D. G. Weaver, Rochester, N. Y. Machine for manufacturing button-fasteners.	312,121	Feb. 10	893	243	30	522
Hemje, Charles, Washington, D. C. Hose-coupling.	322,286	July 14	1176	309	32	221
Hemler, Michael, Cincinnati, Ohio, assignor to Mosler Safe and Lock Company. Coupling device for safe-spindles.	320,250	June 16	1743	464	31	1381
Hemphill, James, Pittsburg, Pa. Rolling-mill.	313,266	Mar. 3	244	61, C2	30	822
Hemphill, James, Pittsburg, Pa. Casting rolls.	317,791	May 12	1139	302	31	739
Hemstath, Augustus, Zehner, Pa. Rotary engine.	330,324	Nov. 10	1201	321	33	743
Hemsley, Richard, Montreal, Quebec, Canada. Diamond-tweezers.	327,394	Sept. 29	2940	767	32	1578
Hench, Samuel N., and W. A. Dringold, York, Pa. Cultivator spring-hoe.	310,21	Jan. 13	845	229	30	166
Heneke, Henry, Graneck, Germany. Process of and apparatus for producing fodder from residual products of distilleries and breweries.	316,145	Apr. 21	1621	424	31	307
Henderson, Charles C., assignor of one-half to O. C. Allen and G. H. Higgins, Warren, Pa. Sulky corn and seed planter.	324,322	Aug. 11	1262	340	32	763
Henderson, Donald. (See Birch, John E., assignor.)						
Henderson, Duncan, Chicago, Ill. Drier.	332,199	Dec. 8	1404	363	33	1256
Henderson, Edwin F., Fort Howard, Wis. Treadle.	315,282	Apr. 7	417	104	31	76
Henderson, Francis M., et al. (See Henderson, Robert M., assignor.)						
Henderson, George R., Altoona, Pa. Locomotive smoke-box.	328,674	Oct. 30	1545	402	33	295
Henderson, Henry A., Lynn, assignor to F. F. Raymond, 2d, trustee, Newton, Mass. Heel-nailing machine.	316,894	Apr. 28	2652	{ 691 692 693 }	31	500
Henderson, Henry A., Lynn, Mass., assignor, by mesne assignments, to National Heeling Machine Company, Portland, Me. Heel-nailing machine. (Reissue.)	10,588	Apr. 28	2712	{ 706 707 }	31	511
Henderson, Henry A., Lynn, Mass., assignor, by mesne assignments, to National Heeling Machine Company, Portland, Me. Heel-nailing machine. (Reissue.)	10,589	Apr. 28	2715	{ 707 708 }	31	512
Henderson, Henry A., Lynn, Mass., assignor to National Heeling Machine Company, Portland, Me. Heel-nailing machine.	317,046	May 12	903	248	31	706
Henderson, Henry A., Lynn, and F. F. Raymond, 2d, Newton, Mass., said Henderson assignor to National Heeling Machine Company, Portland, Me. Heel-nailing machine.	317,047	May 12	965	{ 248 249 }	31	706
Henderson, Henry A., Lynn, Mass., assignor to National Heeling Machine Company, Portland, Me. Heel-nailing machine.	332,708	Dec. 29	2251	503	33	1420
Henderson, Henry T., Keokuk, Iowa. Washing-machine.	327,080	Oct. 6	244	60	33	43
Henderson, Howard C. and J. A., Cherokee, Iowa. Apparatus for concentrating ores.	325,835	Sept. 8	833	208	32	1175
Henderson, James, Bellefonte, Pa. Furnace for manufacturing iron and steel.	312,632	Feb. 24	1603	{ 430 440 }	30	671
Henderson, James, Bellefonte, Pa. Mold for casting steel.	315,741	Apr. 14	1064	279	31	200
Henderson, James, Bellefonte, Pa. Gas-producer.	320,873	June 23	2606	690	31	1549
Henderson, James, Bellefonte, Pa., assignor of one-half to C. G. Francklyn, New York, N. Y. Apparatus for the combustion of gaseous fuel.	315,142	Apr. 7	209	51	31	38
Henderson, James, Bellefonte, Pa., assignor of one-half to C. G. Francklyn, New York, N. Y. Mold for casting steel.	316,544	Apr. 28	2154	567	31	409
Henderson, James, assignor of one-half to J. K. Brice, Lima, Ohio. Rotary engine and pump.	330,702	Nov. 17	1698	{ 458 459 }	33	846
Henderson, James A. (See Henderson, Howard C. and J. A.)						
Henderson, James M., Jr., et al. (See Henderson, Robert M., assignor.)						
Henderson, Johan T., Council Bluffs, Iowa. Roller-skate.	321,968	July 14	767	200	32	147
Henderson, John C., New York, N. Y. Electric grip for railways.	323,675	Aug. 4	382	109	32	504
Henderson, John F., Manton, Mich. Grain-separator.	317,782	May 12	1140	302	31	740
Henderson, John W., et al. (See Henderson, Robert M., assignor.)						
Henderson, John W., Philadelphia, Pa. Railway-switch.	313,866	Mar. 17	1133	225	30	1004
Henderson, John W., Philadelphia, Pa. Railway-signal.	331,679	Dec. 8	938	242	33	1174
Henderson, Milton P., Stockton, Cal. Spring-vehicle.	330,025	Nov. 10	818	209	31	665
Henderson, Milton P., and A. Bergland, Stockton, Cal. Steam-boller furnace.	326,960	Sept. 29	2389	625	32	1482
Henderson, Patrick C. S., Portland, Me. Invalid's convertible chair and bed.	328,944	Oct. 27	1903	{ 477 498 }	33	369
Henderson, Robert M., Leesville, assignor of one-half to J. W. J. M., Jr., and F. M. Henderson and H. B. Goen, Jackson County, Ind. Plow and cultivator.	323,676	Aug. 4	383	{ 109 110 }	32	504
Henderson, Robert M., and J. A. Glasline, Jackson County, Ind. Fire-escape ladder.	328,943	Oct. 27	1902	497	33	368
Hendey Machine Company. (See Ballard, David L., assignor.)						
Hendrick, A. Ellwood. (See Gee, William, assignor.)						
Hendrick, Jerome A., assignor to G. W. Ingalls, Worcester, Mass. Fan-tremolo.	322,450	July 21	1401	368	32	271
Hendrick, Martin, Jackson, Ga. Plow.	330,325	Nov. 10	1202	321	33	343
Hendrick, Robert U. (See Brintnall, Thomas M., assignor.)						
Hendrick, Susan M., New York, N. Y. System and device for measuring garments.	325,409	Sept. 1	262	65	32	1065
Hendricks, Adam C., assignor of one-half to H. S. Shepherd, Shenandoah Junction, W. Va. Grain-drill.	324,110	Aug. 11	948	261	32	707
Hendricks, John C. (See Caldwell and Hendricks.)						
Hendrickson, Edward L., Gloucester, N. J. Step-ladder.	324,254	Aug. 11	1157	315	32	745
Hendrickson, William, Brooklyn, N. Y. Composing-stick.	310,422	Jan. 6	338	93	30	66
Hendrickson, William, Brooklyn, N. Y. Printer's quoin.	312,850	Feb. 24	1896	519	30	723
Hendrie, Charles F. (See Bolthoff, Henry, assignor.)						
Hendrix, Henry F., St. Louis, Mo. Book rest and holder.	331,057	Nov. 24	2149	583	33	938
Hendry, John C., Boston, Mass. Steam fan-blower.	323,677	Aug. 4	385	110	32	594
Hendryx, Norman, et al. (See Franklin, James C., assignor.)						
Hendryx, Samuel V., Farmington, Minn., assignor of one-half to A. Finkelson, Northfield, Mass. Display-rack for umbrellas.	328,487	Oct. 20	1277	331	33	248
Hendy, Joshua, San Francisco, Cal. Ore-feeder.	322,716	July 21	1758	{ 464 465 }	32	336

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Henis, William G., Philadelphia, Pa. Chimney cowl and ventilator	339,523	Dec. 15	1864	487	33	1349
Henis, William G., assignor of one-half to Hall & Carpenter, Philadelphia, Pa. Chimney-cowl and ventilator	316,781	Apr. 28	2493	651	31	471
Henius, Max W., Bridgeport, Conn. Manufacture of corset-stays	316,034	Apr. 21	1464	382	31	278
Henius, Max W., Bridgeport, Conn. Corset-stay	330,308	Nov. 17	1319	350	33	772
Henkel, George, Springfield, Ohio. Pool-ball rack and spotter	322,602	July 21	1609	425	32	308
Henkel, George H., Middletown, Ohio. Culinary cover	314,244	Mar. 24	1626	430	30	1105
Henkel, Gustav, Cassel, Prussia, Germany. Holsting-machine	324,690	Aug. 18	1759	485	32	865
Henkels, Ernst, Langerfeld, Prussia, Germany. Machine-made lace	329,739	Nov. 3	423	109	33	585
Henley, Micajah C. (See Peterson and Henley.)						
Henley, Micajah C., Richmond, Ind. Roller-skate	316,266	Apr. 21	1771	466	31	334
Henley, Micajah C., Richmond, Ind. Roller-skate	319,712	June 9	1001	285	31	1242
Henley, Micajah C., Richmond, Ind. Skate	390,332	June 16	1923	507	31	1411
Henn, Eduard, Jersey City, N. J., assignor to A. Heyman, New York, N. Y. Skylight	311,945	Jan. 27	1450	395 396	30	287
Henneberg, Rudolf, Berlin, Germany. Disinfecting apparatus	327,395	Sept. 29	2941	767 768	32	1578
Henneboehle, Frank, South Chicago, Ill. Valve	323,144	July 28	2358	626	32	453
Hennesey, David, New York, N. Y. Refrigerator system for cars	321,001	July 7	263	70	32	50
Hennesey, David, New York, N. Y. Refrigerator-car	321,602	July 7	265	70	32	51
Hennesey, Thomas F., assignor of one-half to L. Gantter, South Kaukanna, Wis. Velocipede	327,064	Sept. 29	2524	658	32	1505
Hennig, Carl G. E. (See Weber, Hennig, and Frommelt.)						
Hennig, Carl G. E., Paterson, N. J. Tricycle	310,998	Jan. 20	1092	299	30	216
Hennig, Carl G. E., Paterson, N. J. Tricycle. (Reissue)	310,575	Mar. 24	2051	546	30	1129
Hennig, Carl G. E., Paterson, N. J. Tricycle	316,146	Apr. 21	1623	425	31	307
Hennig, George C., Washington, D. C. Leggin	314,840	Mar. 31	2450	647	30	1283
Hennig, William B., Waterloo, Ind. Railway tie and track-fastening	324,809	Aug. 4	548	156	32	626
Hennings, Reinhold E., Cleveland, Ohio. Ventilator	320,251	June 16	1744	464	31	1381
Hennings, Reinhold E., Cleveland, Ohio. Sash-fastener	320,353	June 16	1924	507	31	1411
Hennings, Wilhelm G., assignor of one-half to H. Hein, Chicago, Ill. Register for money-drawers	325,114	Sept. 15	1184	303	32	1248
Henrichsen, Frederick J. (See Amundson and Henrichsen.)						
Henriksen, Hans, Duarte, Cal. Cotton-chopper attachment for cultivators	327,681	Oct. 6	245	60	33	43
Henry, Andrew L., Ladoga, Ind. Sifter	311,896	Feb. 10	586	160	30	465
Henry, D. Farrand, et al. (See Brown, Thomas S., assignor.)						
Henry, Edward P., Eagle Rock, Idaho Ter. Calf-weaner	328,675	Oct. 20	1546	402	33	296
Henry, Frank J., et al. (See Stanton, Lafayette J., assignor.)						
Henry, Frank R., assignor of one-fifth to J. S. Baird, Murfreesborough, Tenn. Combined heater and ventilator	316,620	Apr. 28	2240	503	31	427
Henry, George W., Elizabeth, N. J. Window sash and frame	321,803	July 7	266	71	32	51
Henry, John J., assignor of one-half to G. A. Schaal, Baltimore, Md. Car-brake	315,780	Apr. 14	1119	294	31	210
Henry, John J., assignor of one-half to G. A. Schaal, Baltimore, Md. Car-brake	325,309	Aug. 25	2454	675	32	1062
Henry, William C., and A. Smetley, Bradford, Pa. Natural-gas-supply system	329,962	Nov. 10	650	166	33	633
Henry, William E., assignor of one-half to W. L. Jancey, Chicago, Ill. Candy-machine	314,529	Mar. 24	2020	539	30	1177
Hensley, Charles S., assignor of one-half to W. Hensley, Lawrence, Ind. Carrier for binders, &c	316,369	Apr. 21	1898	502	31	356
Hensley, James E. (See Thorp, Justus W., assignor.)						
Honsley, William. (See Hensley, Charles S., assignor.)						
Henwood, John, Philadelphia, Pa. Machine for channelling slate, &c	318,725	May 26	2413	643	31	992
Henzel, Charles, New York, N. Y. Electric signal-bell	318,472	May 26	2061	557	31	928
Henzel, Edward F. (See Henzel, George L., assignor.)						
Henzel, George L., assignor of one-half to E. F. Henzel, San Francisco, Cal. Electric bolt-releasing device	328,030	Oct. 13	680	179	33	130
Hepburn, John M., London, England, assignor to Bauer'sche Glesserei, Frankfort-on-the-Main, Germany. Type-founding machine	324,111	Aug. 11	949	261 262	32	707
Herbert, Michael E., St. Joseph, Mo. Steam-boiler	310,423	Jan. 6	338	93	30	66
Herbert, William H., et al. (See Hillman, William, assignor.)						
Hercules Manufacturing Company. (See Dawson, George A., assignor.)						
Hercules Powder Company et al. (See Penniman, Russell S., assignor.)						
Hercules Powder Company et al. (See Penniman and Schrader, assignors.)						
Herhold, F. H. (See Goussen, Johann W., assignor.)						
Herhold, Friedrich, and J. E. Mills, Chicago, Ill.; said Mills assignor to said Herhold. Saw-gummer	330,399	Nov. 17	1319	351	33	772
Herig, Adam, assignor to J. A. and C. Herig, Cleveland, Ohio. Household-furniture	317,335	May 5	578	148	31	629
Herig, Christian, et al. (See Herig, Adam, assignor.)						
Herig, John, et al. (See Herig, Adam, assignor.)						
Herbig, Len, Isle St. George, Ohio. Device for reefing sails	315,501	Apr. 14	725	192	31	135
Hermle, John, Euclid, Ohio. Stock for fire-arms	311,755	Feb. 3	382	105	30	421
Herman, Adolph E., Ravenna, Ohio. Lifting-jack	323,580	Aug. 4	256	75	32	569
Herman, Ludwig, Cleveland, Ohio. Sprocket-wheel	325,539	Sept. 1	156	108	32	1099
Hermann, Christian, Bristol, R. I. Tool-handle	323,145	July 28	2360	626	32	454
Hermann, Max, Troy, N. Y. Attaching bosoms to shirts	322,718	July 21	1760	465	32	336
Hermann, Max, assignor to Tim, Wallerstein & Co., Troy, N. Y. Shirt	319,487	June 9	705	189	31	1187
Hermann, Max, assignor to Tim, Wallerstein & Co., Troy, N. Y. Attaching bosoms to shirts	322,717	July 21	1750	465	32	336
Hermann, Max, assignor to Tim, Wallerstein & Co., Troy, N. Y. Securing bosoms to shirt-bodies	332,799	Dec. 22	2252	594	33	1420
Herndon, James M., Judsonia, Ark. Nail-extractor	326,649	Sept. 22	1900	500	32	1387
Herndon, James M., Judsonia, Ark. Nail-extractor	326,650	Sept. 22	1901	500	32	1387
Heron, John, assignor to W. J. Crumney and J. W. Beadle, Evansville, Wis. Paper box	312,851	Feb. 24	1297	519	30	723
Herr, August W., Chicago, Ill. Vault cover and ventilator	330,400	Nov. 17	1322	351	33	773
Herr, Edwin M., Denver, Colo., and G. W. Cummins, Vienna, N. J. Furnace for annealing metals	319,713	June 9	1003	265 266	31	1242
Herrick, Frank J., New Britain, Conn. Lemon-squeezer	331,236	Nov. 24	2417	655	33	985
Herrick, Frank J., and A. McManus, assignors to North & Judd Manufacturing Company, New Britain, Conn. Swinging book	311,246	Jan. 27	1451	396	30	287
Herrick, George E. (See Ganta, William H., assignor.)						
Herrick, Hiram, and W. L. Babcock, Toledo, Ohio. Burglar-alarm	323,810	Aug. 4	549	156	32	626
Herrick, James A. (See Fisher and Herrick.)						
Herrick, John F. (See Cowell and Herrick.)						
Herrick, Lewis W., assignor to himself, L. A. Roller, and J. H. Gibbs, Edmore, Mich. Bolt-fastener	315,781	Apr. 14	1119	294	31	910
Herrick, Rodney L., Santa Barbara, Cal. Seed-planter	315,782	Apr. 14	1120	294	31	910

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Herrick, Seth W., Washington, N. J., and P. J. Lawrence, Easton, Pa.; said Herrick assignor to said Lawrence. Pedal for organs.	323,678	Aug. 4	386	111	32	596
Herrick, W. D. (See Snow, Abner, assignor.)						
Herrington, John, Charles City, Iowa. Trace-buckle.	327,166	Sept. 29	2640	687	32	1525
Herrmann, Robert S. C., Gardenville, Md. Brake block.	332,093	Dec. 15	2106	555	33	13-7
Herrmann, Henry, and W. B. Doolittle, Chicago, Ill. Street-bridge for fire-hose.	322,267	July 14	1177	309	32	224
Herrmann, John C., Cedar Rapids, Iowa. Burial apparatus.	327,551	Oct. 6	66	15	33	12
Herrmann, John C., Cedar Rapids, Iowa. Burial apparatus.	327,552	Oct. 6	67	15	33	13
Herron, Hiram C., Cleveland, Ohio. Portable roof.	321,792	July 7	415	111	32	78
Herron, Hiram C., Cleveland, Ohio. Sheet-iron lock-joint spile.	325,172	Aug. 25	2397	650	32	991
Herron, James P. (See Morrison and Herron.)						
Herschell, John T., Evansville, Ind. Car-spring.	314,945	Mar. 24	1698	430	30	1105
Hershey Brothers. (See Tilden, James A., assignor.)						
Hershsberger, Jonathan, Walnut Creek, Ohio. Traction-engine.	312,633	Feb. 24	1605	440	30	672
Hershsberger, Jonathan, Walnut Creek, Ohio. Thrashing-machine.	324,997	Aug. 25	2182	597	32	958
Hertje, Abraham. (See Groce, Jacob M., assignor.)						
Hertz, Morris, New York, N. Y. Corset-fastening.	330,113	Nov. 10	925	244	33	690
Hertzog, Oscar S., Blue Rock, Pa. Electric railway-signal.	318,186	May 19	1650	450	31	829
Hertzog, Carl E., Rendsitz, near Leipzig, Germany. Potato-peeling machine.	325,078	Aug. 25	2283	628	32	970
Hertzog, F. Benedict, New York, N. Y. Combined audible stock-quotation system and fire-telegraph.	311,756	Feb. 3	383	105	30	421
Hertzog, F. Benedict, New York, N. Y. Audible quotation-indicating system.	311,757	Feb. 3	387	106	30	421
Herzog, F. Benedict, New York, N. Y. Electric signaling apparatus.	314,292	Mar. 24	1696	453	30	1516
Herzog, F. Benedict, New York, N. Y. Latent-signal transmission.	314,293	Mar. 24	1700	453	30	1119
Herzog, F. Benedict, New York, N. Y. Circuit-changer for latent-signal transmission.	314,294	Mar. 24	1703	453	30	1119
Herzog, F. Benedict, New York, N. Y. Electric signaling apparatus and circuit.	315,027	Apr. 7	53	12	31	11
Herzog, F. Benedict, New York, N. Y. Automatic call for latent-signal transmitters.	315,783	Apr. 14	1191	294	31	210
Herzog, F. Benedict, New York, N. Y. Bell for latent-signal transmitters.	315,941	Apr. 14	1338	348	31	248
Herzog, Philip, Minneapolis, Minn. Bolt-operating mechanism.	319,428	June 9	706	189	31	1188
Hess, Alfred. (See Hess, Elmer J., assignor.)						
Hess, Christian W., Brenham, Tex. Pattern for bridle-blinkers.	325,836	Sept. 8	834	208	32	1175
Hess, Edward B., Louisville, Ky. Electro-magnetic car-brake.	324,470	Aug. 18	1449	306	32	907
Hess, Elmer J., assignor of one-half to A. Hess, Cincinnati, Ohio. Vehicle-spring.	329,552	Nov. 3	180	48	33	530
Hess, Godfrey, assignor of three-fourths to H. Metzger, Williamsport, Pa., and G. W. Dyer, Washington, D. C. Socket and connection for electric-light circuits.	325,540	Sept. 1	437	108	32	1100
Hess, Israel, Goshen, Ind. Grain-separator.	322,820	July 21	1296	503	32	361
Hess, Jacob. (See Sutherland, John, assignor.)						
Hess, Jacob F. and L. F. H., J. F. and C. F. Snyder, Massillon, Ohio. Grate.	320,783	June 23	2494	680	31	1524
Hess, Lencord. (See Hess and Snyder.)						
Hess, Silas M., Bloomsburg, Pa. Culm-bar.	325,837	Sept. 8	835	209	32	1175
Hess, William C., Louisville, Ky. Automatic fire-alarm box.	310,424	Jan. 6	339	93	30	66
Hesse, Charles, Danville, Ill. Window-scaffold.	319,714	June 9	1005	266	31	1242
Hessolton, Daniel H. (See Chase and Hessolton.)						
Hesser, William J., Plattsmouth, Nebr. Wire flower-pot holder.	313,667	Mar. 10	855	222	30	946
Hester, Ebenezer, Unionville, Conn. Dipper.	323,332	July 28	2636	701	32	502
Heston, David, Philadelphia, Pa. Paper box.	315,283	Apr. 7	418	104	31	75
Heston, William, Mount Union, Ohio. Oil tank or can.	330,483	Nov. 17	1427	381	33	792
Hetherington, John M., Manchester, county of Lancaster, England. Apparatus for turning the flexible bands of carding-engines.	322,288	July 14	1178	309	32	224
Hettinger, Mathias, Freeport, Ill. Supporting telegraph-wires.	325,743	Sept. 8	716	178	32	1152
Heublein, Louis F. (See Hubbell, Napoleon C., assignor.)						
Heughes, John C., et al. (See Hatfield, Charles B., assignor.)						
Honmann, Bernhard, Rochester, and F. B. Pease, Ontario Centre, N. Y. Cloth measuring and facing machine.	310,425	Jan. 6	341	94	30	66
Heusch, Edmund F. (See Bex and Heusch.)						
Heusch, Anton, Chicago, Ill. Meat-chopping machine.	332,608	Dec. 15	1983	519	33	1364
Heusser, Albert, assignor of one-half to A. J. Underhill, Taylor, Nev. Vehicle-tire and socket therefor.	331,704	Dec. 1	691	170	33	1129
Hoerling, John B., St. Louis, Mo., assignor, by mesne assignments, to Cincinnati Cooper-age Company, Cincinnati, Ohio. Stave-dressing machine.	314,125	Mar. 17	1483	337	30	1069
Hoerling, John B., St. Louis, Mo., assignor, by mesne assignments, to Cincinnati Cooper-age Company, Cincinnati, Ohio. Stave-dressing machine.	314,176	Mar. 17	1545	404	30	1069
Hewes, Alfred. (See Cotton and Hewes.)						
Hewitt, Benjamin J., assignor to himself and J. Benson, Manton, Mich. Water-elevator.	327,167	Sept. 29	2641	687	32	1525
Hewitt, Charles E., Brandon, assignor to himself and J. W. Symons, Forest Dale, Vt. Door-check.	315,284	Apr. 7	419	105	31	76
Hewitt, Herbert H., New York, N. Y. Sliding door.	325,245	Sept. 1	18	6	32	1012
Hewitt, Joseph, Allegheny, Pa. Mantel.	321,723	July 7	416	111	32	76
Hewitt, Leslie, Louisville, Ky., assignor of one-half to Pratt & Letchworth, Buffalo, N. Y. Back-band hook.	325,931	Sept. 8	940	232	32	1190
Hewitt, Thomas S., New York, N. Y. Valve for steam-radiators.	311,637	Feb. 3	262	72	30	397
Hewitt, William, assignor to Trenton Iron Company, Trenton, N. J. Metallic fabric.	314,576	Mar. 31	2084	556	30	1216
Hewitt, William, assignor to Trenton Iron Company, Trenton, N. J. Metallic fabric.	316,458	Apr. 28	2049	577	31	329
Hewitt, William, assignor to Trenton Iron Company, Trenton, N. J. Wire cloth or fabric.	322,933	July 28	2066	550	32	379
Hewston, John, Jr., et al. (See Ludwig, John C., assignor.)						
Hexamer, Charles J., Philadelphia, Pa. Mechanism for extinguishing fires in grain or malt mills.	331,058	Nov. 24	2149	583	33	828
Hey, George W., assignor of one-half to C. H. Duell, Syracuse, N. Y. Door-hanger.	314,177	Mar. 17	1545	405	30	1069
Hey, Michael, Philadelphia, Pa. Try-spigot for beer.	320,252	June 16	1745	464	31	1384
Heyden, Adolf. (See Bassini and Heyden.)						
Heydt, Leonhard, Strasburg, Alsace, Germany. Steering apparatus.	313,733	Mar. 10	943	244	30	961
Heyer, Carl, Philadelphia, Pa. Horseshoe.	328,676	Oct. 20	1546	403	33	276
Heyl, Frederick, Newark, N. J. Milk-strainer.	325,801	Sept. 8	792	199	32	1167
Heylyn, Edward, New York, N. Y. Pavement.	311,579	Feb. 3	162	46	30	379
Heyman, Abraham. (See Henn, Eduard, assignor.)						
Heyman, Frederik, Copenhagen, Denmark. Apparatus to prevent frothing when filling beer into siphons, &c.	322,719	July 21	1761	466	32	337
Heyman, Frederik, Copenhagen, Denmark. Preventing frothing when beer is being filled into siphons, &c.	322,720	July 21	1763	466	32	337
Heya, Alfred J., and S. Salkeld, Manchester, county of Lancaster, England. Button or other fastening for garments.	320,061	June 16	1495	395	31	1338

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Heyniger, Isaac W., Philadelphia, Pa. Valve-stopper for perfume and other bottles.....	316,147	Apr. 21	1624	425	31	309
Heyniger, Isaac W., Philadelphia, Pa. Electric incandescent sign.....	323,375	July 14	1396	339	32	246
Heyniger, Isaac W., Philadelphia, Pa. Conduit for cable and electric railways.....	325,173	Aug. 25	2397	600	32	991
Heyniger, Isaac W., Philadelphia, Pa. Upright paper-clip.....	327,440	Sept. 29	2996	783	32	1588
Heyniger, Isaac W., Philadelphia, Pa. Paper-clip.....	327,553	Oct. 6	69	15	33	14
Heywood Brothers & Co. (See Watkins, Gardner A., assignor.)						
Heywood, George, et al. (See Conant, Fred H., assignor.)						
Heywood, George, et al. (See Ellis, George A., assignor.)						
Heywood, George, et al. (See Ellis and Taft, assignors.)						
Heywood, George, et al. (See Watkins, Gardner A., assignor.)						
Heywood, Henry, et al. (See Conant, Fred H., assignor.)						
Heywood, Henry, et al. (See Ellis, George A., assignor.)						
Heywood, Henry, et al. (See Ellis and Taft, assignors.)						
Heywood, Henry, et al. (See Watkins, Gardner A., assignor.)						
Heywood, Henry, and D. F. Pratt, Gardner, Mass. Die for cutting rattan.....	311,658	Feb. 3	263	72	30	398
Heywood, Joseph L. (See Richardson, Jeremiah M., assignor.)						
Hibbard, Angus S., Milwaukee, Wis. Atomizer.....	310,999	Jan. 20	1094	299	30	216
Hibbard, Angus S., Milwaukee, Wis. Telephone call-register.....	329,046	Nov. 3	292	70	33	565
Hibbard, Fredrick M., Goshen, Ind. Paint for roofing, &c.....	329,740	Nov. 3	424		33	585
Hibbs, George W. (See Hibbs, John D. and G. W.)						
Hibbs, James C., Brownsville, Mo. Sash-fastening.....	312,268	Feb. 17	1103	305	30	568
Hibbs, John D. and G. W., Fairfield, Nebr. Stocking-exhibitor.....	332,524	Dec. 15	1265	488	33	1343
Hibbs, Lorin T. et al. (See Keller, William N., assignor.)						
Hice, Richard R. (See Agnew and Hice.)						
Hickey, John. (See O'Neill, Michael, assignor.)						
Hickey, John P., Washington, D. C. Feathering paddle-wheel.....	316,783	Apr. 28	2495	651	31	471
Hickie, James F., Slevoir, Roscora, Ireland. Cigar-cabinet.....	310,942	Jan. 20	1013	273 274	30	200
Hickox, Charles V. (See Taft, Charles E., assignor.)						
Hickok, Frank K., New York, N. Y. Harness-crupper.....	332,009	Dec. 15	1985	520	33	1365
Hickok, Lester E., Birmingham, Conn. Beam-compasses.....	328,031	Oct. 13	682	179	33	130
Hickok, W. O. (See Metzger and Cooper, assignors.)						
Hickok, William O. (See Metzger and Cooper, assignors.)						
Hicks, Charles R., Troy, N. Y. Umbrella.....	313,668	Mar. 10	855	222	30	946
Hicks, Henry C., Minneapolis, Minn., assignor to American Live Stock Express Company, New York, N. Y. Door for stock or freight cars.....	324,255	Aug. 11	1138	315	32	745
Hicks, Henry C., Minneapolis, Minn., assignor to American Live Stock Express Company, New York, N. Y. Stock-car.....	324,256	Aug. 11	1160	316	32	745
Hicks, Henry C., Minneapolis, Minn., assignor to American Live Stock Express Company, New York, N. Y. Stock-car.....	324,257	Aug. 11	1161	316	32	746
Hicks, Howard H., Rockford, Ill. Harvester-reel.....	332,079	Dec. 8	1935	322 323	33	1227
Hicks, Ira B., Kalamazoo, Mich. Drill-chuck.....	318,966	June 2	75	19	31	1062
Hicks, James A., et al. (See Brown, William A., assignor.)						
Hicks, James D., Lawrence, Tex. Railway-spike.....	330,326	Nov. 10	1203	322	33	744
Hicks, James J., Hatton Garden, county of Middlesex, England. Clinical thermometer.....	317,783	May 12	1141	302	31	740
Hicks, James J., 8 Hatton Garden, county of Middlesex, England. Manufacture of thermometers.....	318,985	June 2	74		31	1061
Hicks, James J., 8 Hatton Garden, county of Middlesex, England. Graduated measuring-veasel.....	320,784	June 23	2495	661	31	1528
Hicks, James R. (See Robertson and Hicks.)						
Hicks, James R., Kansas City, Mo. Rotary harrow.....	325,932	Sept. 8	941	238	32	1197
Hicks, Nchemiah, Attleborough, Mass., and G. A. Metcalf, Woonsocket, R. I. Card-grinding machine.....	325,744	Sept. 8	717	179	32	1154
Hicks, Oliver H., Chicago, Ill. Toilet-paper fixture.....	325,174	Aug. 25	2404	660	32	992
Hicks, Oliver H., Chicago, Ill. Package of toilet-paper.....	323,410	Sept. 1	263	65	32	1065
Hicks, Oliver H., Chicago, Ill. Paper package for toilet and other purposes.....	320,039	Oct. 27	2054	533	33	396
Hicks, Samuel, Orangeville, Ind. Fence-post.....	313,969	Dec. 8	1070	278	33	1199
Hicks, Thomas H., Detroit, Mich. Electro-medical battery.....	329,310	Oct. 27	2440	632	33	466
Hicks, Thomas H., assignor to M. L. Rossvally, Detroit, Mich. Tension check-spring.....	310,426	Jan. 6	342	94	30	67
Hien, Phillip, Rock Island, Ill. Automatic car-brake.....	313,734	Mar. 10	944	245	30	962
Hien, Phillip, Rock Island, Ill. Seal-lock for railway-cars.....	324,691	Aug. 18	1762	486	32	265
Hiestand, Benjamin E., and A. W. Swade, Mount Joy, Pa. Device for releasing animals from stalls.....	322,603	July 21	1611	425	32	308
Higby, Charles W. (See Colley, George H., assignor.)						
Higby, Joseph L. et al. (See Fentz, Levi, assignor.)						
Higel, Frank, et al. (See Rupertus, Jacob, assignor.)						
Higginbotham, Charles T., assignor to Hampden Watch Company, Springfield, Mass. Stem winding and setting watch.....	330,401	Nov. 17	1323	352	33	773
Higginbotham, George S. (See Bragg, Thomas P., assignor.)						
Higgins, Charles J., Hallowell, Me. Rako.....	323,299	Dec. 29	2958	773	33	1554
Higgins, George H., et al. (See Henderson, Charles C., assignor.)						
Higgins, Henry, Newport, Ky. Back-stay for carriage-tops.....	332,800	Dec. 22	2253	594	33	1421
Higgins, Isaac E., Etna, Pa. Machine for drawing wire.....	330,114	Nov. 10	936	244	33	690
Higgins, Jason L. (See Bennett, Charles H., assignor.)						
Higgins, John A., assignor to J. M. Estabrook, Milford, Mass. Shoe-tree.....	319,412	June 2	581	158	31	1159
Higgins, Solomon S. (See Lakin, Rinaldo S., assignor.)						
Higgins, Wenter C., Norwich, Conn. Fire-pot.....	322,229	July 14	1180	310	32	224
Higgins, William F., San Francisco, Cal. Tile-section between walls, joists, &c.....	331,500	Dec. 1	346	93	33	1060
Higgs, John W. (See Kennedy and Higgs.)						
Hich, William F., Reading, Pa. Fire-escape.....	316,969	May 5	51	13	31	532
Highbarger, John L., Sharpsburg, Md. Saw jointing and setting device.....	317,784	May 12	1143	303	31	740
Highfield, George A. (See Hall, Enos T., assignor.)						
Highfill, Samuel G., Boston Station, Ind. Butter-cabinet.....	332,903	Dec. 22	2397	633	33	1447
Higinson, David G., Spring Valley, N. Y., and C. S. De Baun, Westwood, N. J. Cider and wine press.....	315,784	Apr. 14	1124	295	31	211
Higley, Aaron, Cleveland, Ohio. Crushing-machine.....	327,553	Nov. 3	181	48	33	539
Higley, Aaron, Cleveland, Ohio. Machine for disintegrating ores.....	330,115	Nov. 10	938	245	33	691
Higley, Asa L., assignor of one-half to H. J. McChesney, Troy, N. Y. Car brake and starter.....	315,620	Apr. 14	901	236	31	167
Higley, Eben N., Great Falls, N. H. Illuminated tile.....	312,969	Feb. 17	1104	305	30	568
Higley, Eben N., Somersworth, N. H. Railway-tie.....	312,717	Feb. 24	1717	472	30	691

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Higley, Joseph L., <i>et al.</i> (See Pents, Levi, assignor.)						
Hignutt, James E., Denton, Md. Fire-kindler	321,027	June 30	2226	751	31	1585
Hilborn, Julius, assignor to M. Cohn & Co., New York, N. Y. Corset	319,715	June 9	1006	266	31	1242
Hilburn, Frank P., and G. L. Hoehn, Mount Vernon, Ind. Switch-lock	321,107	June 30	2933	777	31	1613
Hilde, Hermann, Rosswien, Germany. Form or mold for glass cigar-molds	321,498	July 7	118	31	32	23
Hildebrand, Herman E., Chicago, Ill. Combined table and chair	318,250	May 19	1763	471	31	865
Hildebrand, Herman E., Chicago, Ill. Foot-rest for surgical chairs and tables	333,220	Dec. 29	2647	744	33	1532
Hildebrand, Louis P., Decatur, Ill. Potato-planter	321,296	June 30	3163	843	31	1657
Hildebrandt, Edward A., Philadelphia, Pa. Awning	323,418	Aug. 4	46	12	32	531
Hilder, Charles F., and E. Scott, Newcastle-upon-Tyne, England. Magnetic separator	315,028	Apr. 7	55	13	31	12
Hilditch, Jacob, Christiania, Norway. Self-acting mechanism for shades and blinds	315,029	Apr. 7	57	14	31	12
Hildreth, Charles H. (See Nelson, George A., assignor.)						
Hildreth, Edwin A. and S. B., Harvard, Mass. Machine for splitting wood	321,969	July 14	768	200	32	148
Hildreth, George, Troy, assignor to Rensselaer Manufacturing Company, Lansingburg, N. Y. Core for straight-way stop-valves	330,327	Nov. 10	1203	322	33	744
Hildreth, James H., <i>et al.</i> (See Mason, Henry, assignor.)						
Hildreth, Stanley B. (See Hildreth, Edwin A. and S. B.)						
Hilger, Peter, Arlington, assignor of one-half to J. Mallitor, Minneapolis, Minn. Sleigh	327,168	Sept. 29	2642	687	32	1525
Hilgner, Robert, assignor of one-half to G. B. Lawason, New Orleans, La. Binding attachment for sewing-machines	310,822	Jan. 13	846	229	30	166
Hill, Alexander H., Oskaloosa, Iowa. Window-screen	317,456	May 5	719	181	31	653
Hill, Alexander H., Oskaloosa, Iowa. Folding camp-stool	317,725	May 12	1143	303	31	740
Hill, Alexander H., Oskaloosa, Iowa. School-desk inkstand	319,815	June 9	1153	304	31	1266
Hill, Alfred R., Wauseon, Ohio. Bag-holder	317,356	May 5	579	149	31	629
Hill, Almon F. (See Way and Hill.)						
Hill, Andrew G. (See Corbin and Hill.)						
Hill, Andrew L., Chicago, Ill. Hame-tug	322,934	July 28	2067	550	32	399
Hill, Barton B., Lowell, Mass. Shell	316,970	May 5	53	14	31	532
Hill, Barton B., Lowell, Mass. Railway construction train or carriage	325,246	Sept. 1	18	6, 7	32	1018
Hill, Benjamin B., Philadelphia, Pa. Hand-stamp	315,285	Apr. 7	420	105	31	76
Hill, Benjamin B., Philadelphia, Pa. Hand-stamp	315,286	Apr. 7	422	105	31	76
Hill, Benjamin B., Philadelphia, Pa. Inking-pad	323,305	Dec. 15	1622	441	33	1312
Hill, Charles, Los Angeles, Cal. Permutation-lock	310,892	Jan. 20	933	254	30	188
Hill, Charles E. (See Temple, William J., assignor.)						
Hill, Charles F., Phelps, assignor of one-half to R. Wagner, Rochester, N. Y. Saw-filing device	319,420	June 9	707	190	31	1182
Hill, Christian C., Chicago, assignor to G. M. Fish, Oak Park, Ill. Barbed fence-wire	330,893	Nov. 24	1550	528	33	900
Hill, Christian C., assignor to Union Wire Mattress Company, Chicago, Ill. Wire-coiling machine	332,525	Dec. 15	1866	489	33	1343
Hill, David K., Chicago, Ill. Automatic cash-carrier	311,697	Feb. 10	567	161	30	465
Hill, Ebenezer, South Norwalk, Conn. Pneumatic ordnance	315,030	Apr. 7	58	14	31	12
Hill, Ebenezer, South Norwalk, Conn. Regulating-valve	317,357	May 5	580	149	31	622
Hill, Ebenezer, South Norwalk, Conn. Speed-governor for steam-engines	319,251	June 2	385	102	31	1120
Hill, Edgar A. (See Hawks, George E., assignor.)						
Hill, Erwin L. (See Long and Hill.)						
Hill, Frank A. (See Mathews, William, assignor.)						
Hill, Frederick D., New York, N. Y. Burglar-alarm	325,838	Sept. 8	835	209	32	1175
Hill, Frederick M., Brooklyn, N. Y. Safety-paper for checks, drafts, &c	330,294	Nov. 24	1951		33	900
Hill, George H., Derby, assignor of one-half to W. J. Welsh, Birmingham, Conn. Expandible bit	313,735	Mar. 10	046	245	30	962
Hill, George W., Quincy, Mass. Insulator for securing telegraph and other wires	324,092	Aug. 18	1763	486	32	866
Hill, Harry W., Montgomery, Ala. Friction-clutch pulley	312,122	Feb. 10	895	243	30	522
Hill, Henry C., and H. H. Brown, Strilbridge, county of Chester, England. Machinery for winding yarn or thread onto spools or bobbins	322,451	July 21	1402	368	32	472
Hill, James, Cleveland, Ohio. Furnace	325,175	Aug. 25	2406	661	32	992
Hill, James H., <i>et al.</i> (See Scott, Orla J., assignor.)						
Hill, John, Columbus, Ga. Automatic fire-extinguisher	329,311	Oct. 27	2443	633	33	467
Hill, John, Columbus, Ga. Apparatus for extinguishing fires	329,741	Nov. 3	425	109	33	555
Hill, John H., Long Island City, and J. E. Babcock, New York, N. Y. Electric burglar-alarm	316,621	Apr. 28	2250	593	31	427
Hill, John J., Clifton, Ohio. Machine for shelling and grading peanuts, &c	328,032	Oct. 13	683	180	33	131
Hill, John W., Sandborn, Ind. Bolting-reel	332,396	Dec. 15	1683	441	33	1313
Hill, Louis C., assignor of one-half to J. W. Weaver, Myrtle Creek, Oreg. Hand-weeder	311,428	Jan. 27	1712	466	30	335
Hill, Lucian, North Brookfield, assignor to T. C. Bates, Worcester, Mass. Corset-steel fastening	314,530	Mar. 24	2021	539	30	1177
Hill, Lucian, assignor to T. C. Bates, North Brookfield, Mass. Corset-clasp	310,512	Jan. 6	443	122	30	86
Hill, Lucian, assignor to T. C. Bates, North Brookfield, Mass. Fastening for corsets	311,956	Feb. 10	719	196	30	489
Hill, Lucian, assignor to T. C. Bates, North Brookfield, Mass. Corset-steel fastening	311,957	Feb. 10	720	197	30	489
Hill, Lucian, assignor to T. C. Bates, North Brookfield, Mass. Corset-steel fastening	313,074	Mar. 3	48	12	30	727
Hill, Lucian, assignor to T. C. Bates, North Brookfield, Mass. Fastening for corsets	315,031	Apr. 7	61	14	31	13
Hill, Lucian, assignor to T. C. Bates, North Brookfield, Mass. Corset-steel clasp or fastening	316,148	Apr. 21	1626	425	31	308
Hill, Lucian, assignor to T. C. Bates, Brookfield, Mass. Corset-steel fastening. (Reissue.)	10,596	May 12	1382	371	31	726
Hill, Moses. (See Hunt, Ira J., assignor.)						
Hill, Richard H., Holyoke, Mass. Friction coupling device	316,149	Apr. 21	1627	425	31	308
Hill, Robert M., Lowell, Mass. Gear-cutter shaping-tool	316,724	Apr. 28	2496	651	31	479
Hill, Sylvester B., assignor to Overman Wheel Company, Chicopee, Mass. Velocipede	312,634	Feb. 24	1606	440	30	672
Hill, Terrellus A., Richland, Iowa. Gate	328,118	Oct. 13	798	208	33	151
Hill, Thomas, Jersey City, N. J. Dumping-cart	328,219	Oct. 13	923	240	33	176
Hill, Walter, South Easton, Mass. Cartridge-loading machine	332,904	Dec. 22	2398	634	33	1447
Hill, Warren, Boston, Mass. Ticket-punch	320,785	June 23	2496	661	31	1528
Hill, Warren, Towanda, Pa. Mowing-machine	330,116	Nov. 10	940	245	33	691
Hill, Warren S., <i>et al.</i> (See Pottle, George F., assignor.)						
Hill, Warren S., Boston, Mass. Electric motor	331,880	Dec. 8	941	943	33	1174
Hill, Warren S., assignor to Lanson Cash Railway Company, Boston, Mass. Car for store-service	333,300	Dec. 29	2959	773	33	1554
Hill & Way Gate Company. (See Way and Hill, assignors.)						
Hill, William, Mount Vernon, Ill. Lock and latch combined	320,472	June 23	2100	554	31	1453
Hill, William, and T. R. Wilson, Salt Lake City, Utah Ter. Photographic-printing apparatus	319,975	June 16	1382	362	31	1316
Hill, William, Jr. (See Bull and Hill.)						
Hill, William E., Kalamazoo, Mich. Combined boring and reaming tool	312,350	Feb. 17	1230	338	30	599

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Hill, William E., Kalamazoo, Mich. Log-turner	315,032	Apr. 7	61	15	31	13
Hill, William E., Kalamazoo, Mich. Log-unloader	324,840	Aug. 25	1966	539	32	911
Hill, William E., Kalamazoo, Mich. Steam-engine	325,079	Aug. 25	2283	628	32	970
Hill, William E., Kalamazoo, Mich. Log-mover and dog	325,745	Sept. 8	718	179	32	1154
Hill, William E., Kalamazoo, Mich. Tree and log sawing machine	329,554	Nov. 3	182	49	33	540
Hiller, France B., Wilmington, Mass. Implement for planting cranberry-vines	323,419	Aug. 4	47	12	32	531
Hiller, Otto B. E. (See Zierek, Otto, assignor.)						
Hillery, Edward, Waseca, Kans. Lock for railway-switch stands	316,545	Apr. 28	2156	567	31	409
Hillman, Louis. (See Dickerson, Samuel H., assignor.)						
Hillman, William, Coventry, England. Saddle-spring for velocipedes	310,823	Jan. 13	848	230	30	186
Hillman, William, Binley Road, Coventry, England. Velocipede	311,320	Jan. 27	1557	424 425 426 427 428 429	30	306
Hillman, William, assignor of five-eighths to W. H. Herbert and G. B. Cooper, Premier Works, Coventry, county of Warwick, England. Machine for making balls	333,801	Dec. 29	2961	773 774 775	33	1554
Hills, C. (See Purviance, Benjamin F., assignor.)						
Hills, Caroline M., Chicago, Ill. Paint-pot	323,420	Aug. 4	48	12	32	532
Hills Company. (See Marcell, Michel, assignor.)						
Hills, E. Hamilton, et al. (See White, Louis B., assignor.)						
Hillson, John, administrator. (See Hillson, Robert.)						
Hillson, Robert, deceased, (J. Hillson, administrator,) Albany, N. Y. Damper	312,635	Feb. 24	1608	441	30	672
Hilton, George P., Glendale, S. C. Remedy for liver and kidney diseases	310,427	Jan. 6	343		30	67
Hilton, James, Newark, N. J. Saw-handle	321,508	Aug. 4	164	48	32	553
Hilton, James W., Brooklyn, N. Y. Scissors-sharpener	321,146	July 28	2362	626	32	454
Hilton, James W., Brooklyn, N. Y. Machine for pulverizing ores, &c.	321,147	July 28	2363	627	32	454
Hilton, James W., New York, N. Y. Cylindrical amalgamator	321,148	July 28	2363	627	32	454
Himel, Taylor P., Labadieville, La. Cane-scraper	324,258	Aug. 11	1163	316	32	746
Himrod, William G., Philadelphia, Pa. Submerged water-filter for purifying water	328,500	Sept. 15	1697	443	32	1343
Hinchliffe, John, Jr. (See Seymour, Francis, assignor.)						
Hinchliffe, William, Nashville, Tenn. Railway-head, drawing-machine, &c.	318,900	May 26	2642	700 701	31	1032
Hinckley, Henry D., assignor of one-half to A. Whitney, Hartford, Conn. Ratchet-drill ..	318,561	May 26	2202	588	31	952
Hindes, Edward B. (See Wheeler and Hindes.)						
Hinds, Alfred A., Lexington, Ind. Washing-machine	326,501	Sept. 15	1698	443	32	1343
Hinds, Alfred A., and L. E. Mace, Lexington, Ind. Portable chute	312,468	Feb. 17	1330	382	30	621
Hinds, Frank A., Watertown, N. Y. Rotary water-meter	314,126	Mar. 17	1464	388	30	1069
Hinds, Franklin P., Boston, Mass. Automatic safety-guard for elevators	322,452	July 21	1406	368	32	272
Hinds, Franklin P., Boston, Mass. Chain-machine	331,397	Dec. 1	198	51, 52	33	1033
Hinds, Joseph E., Brooklyn, N. Y. Varnishing-machine	325,176	Aug. 25	2407	661 662	32	993
Hinds, Justin, and L. L. Stimpson, Boston, Mass. Electric railway-signal	315,785	Apr. 14	1125	295	31	211
Hine & Co. (See Marsh, Riverius, assignor.)						
Hine, E. A., et al. (See Sanders, Theodore, assignor.)						
Hine, L. G., et al. (See Maltby, Philo, assignor.)						
Hines, Andrew L., et al. (See Cameron, Ezra G., assignor.)						
Hines, Dauphin S., et al. (See Bicknell, William A. P., assignor.)						
Hines, Elijah, Batavia, Ill. Tank	313,867	Mar. 17	1135	295	30	1005
Hines, John, Philadelphia, Pa. Tile for walls, wood-work, &c.	321,724	July 7	417	111	32	78
Hines, John, Philadelphia, Pa. Making enameled goods	322,290	Oct. 14	1180	310	32	225
Hines, John, Philadelphia, Pa. Enameling	329,165	Oct. 27	2231	577	32	427
Hines, Joseph H., Calistoga, Cal. Die-stock	322,810	Dec. 22	2254	594	33	1421
Hinkel, Ernst P., Offenbach-on-the-Main, Germany. Album-clasp	319,428	Jan. 6	343	94	30	67
Hinkel, Ernst P., Offenbach-on-the-Main, Germany. Clasp for purses, &c.	317,358	May 5	581	140	31	630
Hinkle, Charles M., Davis City, Iowa. Fabric-turning implement	314,023	Mar. 17	1346	351	30	1045
Hinkle, James C. (See Bender and Hinkle.)						
Hinkley, George M. (See Church, James S., assignor.)						
Hinkley, George M., Milwaukee, Wis. Circular sawing machine	314,379	Mar. 24	1811	462	30	1140
Hinkley, George M., Milwaukee, Wis. Saw-mill carriage	330,484	Nov. 17	1428	382	33	793
Hinkley, Philander, Charleston, Ill. Lawn-mower	328,310	Oct. 13	1035	268	32	196
Hinks, Joseph, Birmingham, county of Warwick, England. Lamp	312,202	Feb. 10	1015	276 277	30	544
Hinman, David, Southington, Conn. Blind-slat holder	324,693	Aug. 18	1764	486	32	866
Hinman, Hugh C., Oakland, Cal. Coal scuttle or hod	316,635	Apr. 21	1465	382	31	279
Hinman, Marshall L. (See Cooner, William E., assignor.)						
Hinman, William M. (See Davis, Wilbur G., assignor.)						
Hinman, William M. (See Davis and Hinman.)						
Hinman, William S. (See Merriman, Lewis, assignor.)						
Hinners, John L., Pekin, Ill. Tracker-pin for organs	330,117	Nov. 10	942	245	33	691
Hinsdale, William R. (See Billings and Hinsdale.)						
Hinsdale, William R., Brooklyn, N. Y. Apparatus for pressing fluid metal	332,656	Dec. 15	2053	540	33	1377
Hinsdale, William R., Brooklyn, N. Y., assignor to Compressed Steel Company, Cleveland, Ohio. Fluid-metal press	330,895	Nov. 24	1951	528 529	33	900
Hinsdill, Henry M., Grand Rapids, Mich. Portable copying-press	326,651	Sept. 22	1901	500	32	1387
Hinschaw, Columbus and E. Snow Hill, Ind. Belt-supporter	323,679	Aug. 4	398	111	32	595
Hinschaw, Elwood. (See Hinschaw, Columbus and E.)						
Hinson, William P., Nashville, Mo. Wire splicer and tightener	319,716	June 9	1007	267	31	1243
Hinton, John B., San Diego, Cal. Brake for vehicles	349,312	Oct. 27	2445	633	33	467
Hinton, Joseph R. H., Baltimore, Md., assignor to Continental Store Service Company, New York, N. Y. Device for transporting cash and parcels in dry-goods stores	321,360	June 30	3244	866	31	1673
Hinton, Joseph R. H., Baltimore, Md., assignor to Continental Store Service Company, New York, N. Y. Spring-actuated drum	329,836	Nov. 3	559	142	33	609
Hinton, Joseph R. H., Baltimore, Md., assignor to Continental Store Service Company, New York, N. Y. Store-service apparatus	333,302	Dec. 29	2965	775	33	1555
Hinze, William, Newark, N. J. Window-guard	319,252	June 2	387	103	31	1121
Hipalev, J. J., et al. (See Kock, Christian H., assignor.)						
Hipwell, Thomas. (See White and Hipwell.)						
Hipwell, Thomas, Astoria, assignor to Manhattan Brass Company, New York, N. Y. Lamp-burner	314,178	Mar. 17	1548	405	30	1080
Hipwell, Thomas, Astoria, assignor to Manhattan Brass Company, New York, N. Y. Lamp	323,037	July 28	2221	587	32	426
Hiringer, Christian G. (See Forahey and Hiringer.)						
Hirn, Joseph, Chillicothe, assignor of one-half to C. H. Neill, Columbus, Ohio. Car-coupling ..	331,639	Dec. 1	599	148	33	1102
Hirsch, Isaac, et al. (See Turk, Samuel, assignor.)						
Hirsch, Ludwig, New York, N. Y. Rule and square	329,555	Nov. 3	184	49	33	540

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Hirschmann, Frederick L., <i>et al.</i> (See Lyons, James B., assignor.)						
Hirsh, Ralph, Syracuse, N. Y. Apparatus for weather-signal stations.	396,558	Sept. 22	1773	464	32	1365
Hirshfield, Philip, Lowell, Mass. Button.	311,758	Feb. 3	389	106	30	492
Hirshheimer, Albert, La Crosse, Wis. Harrow.	325,541	Sept. 1	410	109	32	1100
Hirshheimer, Albert, La Crosse, Wis. Harrow.	329,040	Oct. 27	2056	533	33	306
Hirshheimer, Albert, and C. M. Moeller, La Crosse, Wis. Machine for inserting harrow-teeth.	325,542	Sept. 1	440	109	32	1100
Hirst, John C. and E. Dickie, South Oil City, Pa. Tool-handle.	324,379	Aug. 18	1330	362	32	785
Hirt, Charles F., Erie, Pa. Roller-skate.	329,556	Nov. 3	184	49	33	540
Hirt, Charles F., Erie, Pa. Roller-skate.	329,557	Nov. 3	186	50	33	540
Hirt, Charles F. and J. L., assignors to Brown Folding Machine Company, (limited,) Erie, Pa. Paper-folding machine.	330,485	Nov. 17	1429	382	33	793
Hirt, Jacob L. (See Hirt, Charles F. and J. L.)						
Hirt, Leo, New Kiowa, Kans. Siphon-starter.	326,034	Sept. 8	1081	276	32	1221
Hirth, Joseph, and J. Ruff, East St. Louis, Ill. Lantern.	325,210	Aug. 25	2455	675	32	1002
Hiser, Daniel B., Springfield, Ohio. Coffin.	329,559	Sept. 22	1775	465	32	1366
Hiser, Daniel B., assignor to A. A. Baker and D. R. Hosterman, Springfield, Ohio. Coffin.	322,604	July 21	1611	426	32	309
Hish, Franklin P., Shelbyville, Ill. Bench-clamp.	324,555	Aug. 18	1559	430	32	828
Hislop, Andrew. (See Munro, Donald, assignor.)						
Hiss, Hermann. (See Paillet, Joseph, assignor.)						
Hissom, J. C. (See Crites, Silas J., assignor.)						
Hittaffer, Thomas T. A. (See Waterworth, Alexander M., assignor.)						
Hitchcock, Charles A., <i>et al.</i> (See Burnley, William, assignor.)						
Hitchcock, Charles H., <i>et al.</i> (See Lord, Andrew H., assignor.)						
Hitchcock, David S., assignor to Hitchcock Shutter Manufacturing Company, Cleveland, Ohio. Camera-shutter.	328,033	Oct. 13	683	460	33	131
Hitchcock, Frank L., Bridgeport, Conn. Weighing-scale.	322,100	July 14	946	245	32	181
Hitchcock, Henry, New Haven, Conn. Sewing-machine gage.	323,529	Dec. 15	1868	489	33	1343
Hitchcock, Hiram H., Detroit, Mich. Feed mechanism for saw-sets.	325,080	Aug. 25	2225	628	32	970
Hitchcock, Robert, Springfield, Mass. Car-coupling.	314,577	Mar. 31	2024	557	30	1316
Hitchcock Shutter Manufacturing Company. (See Hitchcock, David S., assignor.)						
Hitchcock, William F. (See Wright, Gage, and Hitchcock.)						
Hiteshaw, William H., Peru, Ind. Sewing-machine cabinet.	325,081	Aug. 25	2227	629	32	971
Hitt, Rector C., <i>et al.</i> (See Yeutzer, Enoch S., assignor.)						
Hittle, Jonas H., and A. D. Davis, Mackinaw, Ill. Combined hay and stock rack.	313,333	Mar. 3	422	105	30	854
Hitzert, Albert, East Saginaw, Mich. Barrel-hoop machine.	313,207	Mar. 3	246	63	30	822
Hiveley, Martin P., Van Wert, Ohio. Gate.	332,802	Dec. 22	2255	504	33	1421
Hoadley, Robert, assignor to Ansonia Brass & Copper Company, Ansonia, Conn., and W. A. Hull, New York, N. Y. Manufacture of articles of sheet metal for lamp-fixtures.	311,321	Jan. 27	1558	425	30	307
Hoag, John B., Judsonia, Ark. Insecticide.	312,970	Feb. 17	1105		30	569
Hoag, Seth W., Grand Isle, Vt. Match-box.	311,129	Jan. 20	1279	353	30	220
Hoagland, James, and B. Zipfel, Toledo, Ohio. Soap.	314,447	Mar. 24	1901		30	1158
Hoagland, John. (See Pearce and Hoagland.)						
Hoagland, John, assignor to Pearce & Hoagland, Providence, R. I. Watch-chain bar.	311,429	Jan. 27	1712	466	30	335
Hoard, Frederick R. (See Hoard, John W. and F. R.)						
Hoard, John W. and F. R., Providence, R. I. Oxidizing linseed and other oils.	312,351	Feb. 17	1231	338	30	592
Hoard, John W. and F. R., Providence, R. I. Apparatus for mixing liquid fuel and air.	326,981	Sept. 29	2390	625	32	1482
Hobart, Henry H., and E. T. Coombes, Westfield, Pa. Check-rein hook.	326,217	Sept. 15	1336	346	32	1275
Hobart, John H., Oakland, assignor to T. H. Williams and D. Bixler, San Francisco, Cal. Pipe-coupling.	315,287	Apr. 7	423	106	31	77
Hobbs, Horatio. (See Gordon and Hobbs.)						
Hobbs, Josiah, East Brookfield, Mass. Sand mold.	320,934	June 30	2606	715	31	1571
Hobbs, William H., <i>et al.</i> (See Borton, Joh., assignor.)						
Hochhausen, William, New York, N. Y. Automatic cut-out for electric lamps.	311,072	Jan. 20	1195	329	30	235
Hochhausen, William, New York, N. Y. Electric-arc lamp.	311,073	Jan. 20	1199	329	30	236
Hochhausen, William, New York, N. Y. Focusing electric-arc lamps.	311,074	Jan. 20	1204	330	30	237
Hock, Mamort, Saar Louis, Germany. Mechanical musical instrument.	312,636	Feb. 24	1610	442	30	673
Hock, William R., assignor of one-half to J. Seyfried, Catasauqua, Pa. Scrubbing-brush.	320,436	June 16	2046	537	31	1434
Hockensmith, Franklin C., Irwin's Station, Pa. Arie.	329,453	Nov. 3	31	9	33	511
Hockert, Seigfried L., Cincinnati, Ohio. Device for actuating mortar-pestles.	311,560	Feb. 3	163	46	30	379
Hockett, Amos, Wilmington, Ohio. Book and copy holder.	327,682	Oct. 6	247	60	33	43
Hodesty, George W., Drifton, Pa. Coal-scuttle.	317,786	May 13	1144	303	31	740
Hodgdon, Caleb W. (See Field, Horace T., assignor.)						
Hodge, Charles J., Houghton, Mich. Quartz-mill.	317,359	May 5	592	150	31	630
Hodge, George W., and L. J. A. Roswall, Clarence, Mo. Device for removing wagon-bodies.	322,403	Oct. 13	1176	304	33	222
Hodgen, J. F. (See Whisler, Cyrus, assignor.)						
Hodges, Alice A. (See Hodges, George W. and A. A.)						
Hodges, Charles C., <i>et al.</i> (See Turner, Chester B., assignor.)						
Hodges, Charles C., <i>et al.</i> (See Turner, Isaac A., assignor.)						
Hodges, Charles H., <i>et al.</i> (See Turner, Chester B., assignor.)						
Hodges, Charles H., <i>et al.</i> (See Turner, Isaac A., assignor.)						
Hodges, Clarence B., <i>et al.</i> (See Turner, Chester B., assignor.)						
Hodges, Clarence B., <i>et al.</i> (See Turner, Isaac A., assignor.)						
Hodges, Clarence B., Detroit, Mich. Lubricator.	322,291	July 14	1181	310	32	225
Hodges, Clarence B., and E. McCoy, Detroit, Mich. Steam-dome for locomotives.	320,354	June 16	1925	507	31	1412
Hodges, George W. and A. A., Baltimore, Md. Brake for child's carriage.	322,721	July 21	1765	466	32	337
Hodges, Henry C., <i>et al.</i> (See Turner, Chester B., assignor.)						
Hodges, Henry C., <i>et al.</i> (See Turner, Isaac A., assignor.)						
Hodges, Horace F., Fitchburg, Mass. Apparatus for cooling air for refrigerating and other purposes.	331,881	Dec. 8	943	243	33	1175
Hodges, Horace F., Chelsea, assignor to C. F. Payne, Groveland, and G. H. Spencer, Fitchburg, Mass. Pump.	311,581	Feb. 3	164	47	30	379
Hodges, Horace F., Boston, assignor to C. F. Paine, Groveland, and G. H. Spencer, Fitchburg, Mass. Rotary engine.	323,038	July 28	2223	588	32	426
Hodges, Horace F., Boston, assignor to C. F. Paine, Groveland, G. H. Spencer, and C. T. Crocker, Fitchburg, Mass. Pressure-regulating valve.	323,039	July 28	2224	588	32	426
Hodges, Horace F., Boston, assignor to C. F. Payne, Groveland, G. H. Spencer and C. T. Crocker, Fitchburg, Mass. Universal angle coupling and union.	327,877	Oct. 6	476	124	33	84
Hodges, Horace F., Boston, assignor to C. F. Payne, Groveland, G. H. Spencer and C. T. Crocker, Fitchburg, Mass. Valve-governor.	329,041	Oct. 27	2057	533	33	396
Hodges, Horace F., Boston, assignor to C. F. Payne, Groveland, G. H. Spencer and C. T. Crocker, Fitchburg, Mass. Rotary automatic cut-off valve.	330,328	Nov. 10	1904	322	33	744

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Hodges, John. (See Annable, Edward R., assignor.)						
Hodges, Pliny F., Chicago, Ill. Automatic grain-binder	312,466	Feb. 17	1381	{ 382 383 }	{ 30 31 }	621
Hodges, Pliny F., Chicago, Ill. Grain-binder	315,288	Apr. 7	423	106	31	77
Hodges, Pliny F., Chicago, Ill. Grain-binder	315,289	Apr. 7	424	{ 100 107 }	{ 31 31 }	77
Hodges, Pliny F., Chicago, Ill. Grain-binder	315,290	Apr. 7	426	107	31	77
Hodges, Pliny F., Chicago, Ill. Grain-binding harvester	319,717	June 9	1008	{ 267 268 }	{ 31 31 }	1243
Hodges, Pliny F., Chicago, Ill. Low-down self-binding harvester	323,333	July 28	2637	{ 701 702 }	{ 32 32 }	503
Hodges, Pliny F., Davenport, Iowa. Harvesting-machine	321,813	July 7	549	145	32	102
Hodgman, John E., London, and E. Perrett, Westminster, England. Apparatus for cleaning the filtering media of filters	317,457	May 5	719	{ 181 182 }	{ 31 31 }	653
Hodgkinson, James, Manchester, England. Mechanical stoker	322,605	July 21	1613	426	32	309
Hodgman, Constant C., et al. (See McKendrick, John, assignor.)						
Hodgson, William H., Winona, Minn. Plow	320,656	June 23	2343	619	31	1498
Hodgson, William H., Winona, Minn. Plow	333,010	Dec. 22	2551	672	33	1475
Hodgkinson, Jabez, Salem, Mass. Leather-blackening machine	322,006	July 21	1615	437	32	309
Hodgkinson, Jabez, Salem, assignor of one-half to D. Knox, Lynn, Mass. Machine for putting out and cleaning leather	311,582	Feb. 3	165	47	30	379
Holson, Emma E., Chicago, Ill. Bustle	329,042	Oct. 27	2058	534	33	396
Hoe & Co., R. (See Anthony, Edwin, assignor.)						
Hoe & Co., R. (See Crowell, Luther C., assignor.)						
Hoe & Co., R. (See Gill, George C., assignor.)						
Hoeber, Adolph, St. Louis, Mo. Demijohn or bottle	310,202	Jan. 6	56	15	30	13
Hoefer, Gustave, Champoe, Oreg. Metal-cutting tool	319,816	June 9	1154	305	31	1268
Hoefer, Lewis H., Dayton, Ohio. Type-writing machine	316,267	Apr. 21	1773	{ 466 467 }	{ 31 31 }	335
Hoeffer, Albert, et al. (See Wock, John, assignor.)						
Hoeft, Ernest W., assignor to Schenck & Prother, New York, N. Y. Fan	323,811	Aug. 4	550	156	32	626
Hoehn, George L. (See Hilburn and Hoehn.)						
Hoehn, William, New York, N. Y. Trunk-lock	311,759	Feb. 3	390	106	30	422
Hoell, Christopher, St. Louis, Mo. Fire-escape	317,534	May 12	819	{ 210 211 }	{ 31 31 }	6-0
Hoel, Frank B., Buffalo, N. Y. Locomotive-pilot	320,657	June 23	2343	619	31	1498
Hoeveler, William A., Springdale, Pa. System of pipes for conveying gas, water, and electricity	332,149	Dec. 8	1346	{ 348 349 }	{ 33 33 }	1245
Hoeveler, William A., Pittsburg, Pa. System for conveying gas under pressure	318,901	May 26	2643	701	31	1032
Hoeveler, William A., Pittsburg, Pa. Gas-distribution	325,685	Aug. 4	309	114	32	587
Hoeveler, William A., Pittsburg, Pa. Sealing the joints of gas-mains	333,011	Dec. 22	2552	672	33	1475
Hoeveler, William A., Pittsburg, Pa. Coupling for gas-pipes	333,412	Dec. 29	3104	809	33	1578
Hoeveler, William A., Pittsburg, Pa. Pipe-coupling	333,413	Dec. 29	3104	809	33	1578
Hoeveler, William A., Pittsburg, Pa. System for the distribution of gas	333,402	Dec. 29	3170	826	33	1569
Hoeveler, William A., and T. J. McTigue, Pittsburg, Pa. System for distributing gas under pressure	312,470	Feb. 17	1369	{ 353 354 }	{ 30 30 }	622
Hoeveler, William A., and C. Keller, Pittsburg, Pa.; said Keller assignor to said Hoeveler. Heating and soldering implement	316,785	Apr. 28	2497	652	31	472
Hoexter, Adolf, Offenbach-on-the-Main, and G. Schultze, Lohr-on-the-Main, Germany. Wood-filler	327,085	Sept. 29	2525		32	1505
Hoey, James, Brooklyn, N. Y. Exhaust-steam trap	320,134	June 16	1597	422	31	1354
Hoey, James, Brooklyn, N. Y. Hanger for pipes	330,703	Nov. 17	1700	459	33	847
Hofer, John, and G. Martin, Cincinnati, Ohio. Ash-pan	332,527	Dec. 15	1870	469	33	1344
Höfer, Julius G., assignor of one-half to Knoxville Foundry and Machine Company, Knoxville, Tenn. Stone-sawing machine	322,821	July 21	1898	503	32	361
Hoff, Charles, Cincinnati, Ohio, assignor to Hoff, Noll & Renner. Sheet-metal-seaming machine	314,448	Mar. 24	1501	508	30	1158
Hoff, Noll & Renner. (See Hoff, Charles, assignor.)						
Hoffacker, Bertrand J., New York, N. Y. Soldering-iron	319,904	June 9	1275	336	31	1289
Hoffman & Ahlers. (See Kuhn, Leo S., assignor.)						
Hoffman, Andrew E., Fort Wayne, Ind. Saw-straightening machine	315,033	Apr. 7	62	15	31	13
Hoffman, Austin D., Chicago, Ill. Paper-cutter	310,513	Jan. 6	444	122	30	86
Hoffman, Charles, and H. F. Lyman, Flemington, Iowa. Pumping-machine	324,026	Aug. 11	835	231	32	686
Hoffman, Harvey H., New York, N. Y. Electric mat	332,254	Dec. 15	1493	390	33	1278
Hoffman, Irenias M., Indianapolis, Ind. Refrigerator-wagon	321,970	July 14	769	201	32	148
Hoffman, Isaac A., et al. (See Kuhn, Leo S., assignor.)						
Hoffman, John G., New York, and G. Weber, assignors to J. G. Hoffman Manufacturing Company, Brooklyn, N. Y. Mechanism for operating fan-blowers	310,681	Jan. 13	669	184	30	133
Hoffman, Joseph, assignor to G. A. Goldsmith, New York, N. Y. Pencil	326,502	Sept. 15	1699	443	32	1343
Hoffman, Joseph, assignor to G. A. Goldsmith, New York, N. Y. Pencil or crayon holder	326,736	Sept. 22	2051	534	32	1414
Hoffman, Joseph, assignor to G. A. Goldsmith, New York, N. Y. Pencil or crayon holder	326,737	Sept. 22	2054	534	32	1414
Hoffman, Joseph, assignor to G. A. Goldsmith, New York, N. Y. Pencil	331,398	Dec. 1	201	53	33	1034
Hoffman Manufacturing Company, J. G. (See Hoffman and Weber, assignors.)						
Hoffman, William M., Buffalo, N. Y. Putting-out machine	323,334	July 28	2638	702	32	503
Hoffman, William M., assignor to himself and E. B. Stevens, Buffalo, N. Y. Putting-out machine	310,279	Jan. 6	157	44	30	31
Hoffmann, Adam, Allegheny, Pa. Railway-signal	313,936	Mar. 17	1242	323	30	1023
Hoffmann, Alfred W. (See Hoffmann, Emil R. and A. W.)						
Hoffmann, Charles, New York, N. Y. Gas-pressure gage	319,473	May 26	2061	557	31	929
Hoffmann, Edmond H., assignor of one-half to J. Fearey, Newark, N. J. Electrical conduit and discharger	320,253	June 16	1746	{ 464 465 }	{ 31 31 }	1382
Hoffmann, Emil R. and A. W., New York, N. Y. Apparatus for making type-wheels	328,677	Oct. 20	1547	403	33	296
Hoffmann, Ferdinand, and C. Ferst, Louisville, Ky. Barber's chair	326,503	Sept. 15	1700	444	32	1344
Hoffmann, Jacob, Cincinnati, Ohio. Reversible envelope	321,297	June 30	3164	843	31	1637
Hoffmann, John P., Dubuque, Iowa. Horse-collar pad	312,251	May 19	1765	472	31	865
Hoffmann, Meinhard, Mainkur, near Frankfort-on-the-Main, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Coloring-matter from beta-naphthol	314,938	Mar. 31	2591		30	1308
Hoffmann, Meinhard, Mainkur, near Frankfort-on-the-Main, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Red coloring-matter from gamma disulphonic acid of beta-naphthol	314,939	Mar. 31	2592		30	1308
Hoffmann, Meinhard, Mainkur, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Manufacture of beta-naphthol sulphonic acid	331,059	Nov. 24	2151		33	939
Hoffmann, Meinhard, Mainkur, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Dye-stuff made from diazonaphthalene	332,528	Dec. 15	1870		33	1344

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Hoffmann, Otto, Mainkur, near Frankfort-on-the-Main, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Coloring-matter derived from naphthol	316,036	Apr. 21	1466		31	279
Hoffmeister, Hermann C., Meidling, near Vienna, Austria-Hungary. Steam-boiler	312,718	Feb. 24	1718	472	30	602
Hofmann, Adam, Indianapolis, Ind. Two-wheeled vehicle	331,705	Dec. 1	693	171	33	1120
Hofstatter, Theodore, Jr., New York, N. Y. Machine for longitudinally grooving rods for jewels	324,279	Aug. 11	1164	317	32	746
Hofstatter, Theodore, Jr., New York, N. Y. Sofa-bed	331,706	Dec. 1	694	171	33	1121
Hogan, George W., Bentonville, Ark. Fruit and nut gatherer	310,420	Jan. 6	344	94	30	67
Hogan, John J., and R. A. Miller, Galveston, Tex. Car-coupling	320,062	June 16	1495	395	31	1337
Hogan, Thomas P., Buffalo, N. Y. Steam-heating boiler	326,922	Sept. 29	2392	620	32	1432
Hogben, George W. (See Lampson and Hogben.)						
Hogeboom, Charles E., Eau Claire, Wis. Harrow-tooth attachment	325,839	Sept. 8	836	209	32	1176
Hogeboom, Franklin R., Brooklyn, N. Y. Pantaloon-protector	330,658	June 23	2345	620	31	1498
Hogeboom, Levi S., and H. B. Smith, Three Rivers, Mich. Bran duster and cleaner	321,108	June 30	2934	778	31	1614
Hogeland, Israel, assignor to G. P. Anderson, Indianapolis, Ind. Lifting-jack	325,411	Sept. 1	264	66	32	1065
Hogeland, Israel, assignor to G. P. Anderson, Indianapolis, Ind. Folding camp-stool	329,903	Nov. 10	652	166	33	634
Hogeland, John W. and P. M., Lovilia, Iowa. Hay-stacker	318,429	May 19	2008	541	31	909
Hogeland, Peter M. (See Hogeland, John W. and P. M.)						
Hogg, John O. (See Allen, Janson, assignor.)						
Hogsett, Thomas W., Edray, W. Va. Motor	328,678	Oct. 20	1549	403	33	296
Hogsett, Thomas W., Edray, W. Va. Car-truck	328,679	Oct. 20	1550	403	33	296
Hogue, Francis A., et al. (See Gorrell, John B., assignor.)						
Hogue, Lundy B., Carpinteria, Cal. Combined cultivator and weed-cutter	327,683	Oct. 6	248	61	33	43
Hogue, Parker P., Sandy Lake, Pa. Inspirator	319,817	June 9	1155	305	31	1268
Hogue, W. James, et al. (See Gorrell, John B., assignor.)						
Hohenstein, Archie G., assignor to Minor, Nichols & Co., New Britain, Conn. Paper box	329,558	Nov. 3	187	50	33	541
Hohenstein, Archie G., assignor to Minor, Nichols & Co., New Britain, Conn. Paper box	329,559	Nov. 3	187	50	33	541
Hohenstein, Karl A., assignor to D. McMeekan and A. G. Wright, Brooklyn, N. Y. Calamine	321,109	June 30	2936		31	1614
Hohly, Charles. (See Perron, Leon, assignor.)						
Hohmeier, Philip. (See Sims and Hohmeier.)						
Hohneck, Ernst, Jamestown, Dak. Ter. Combined tack and rivet	318,474	May 26	2062	557	31	929
Hoke, David, Altoona, assignor to H. E. Hoke, Chambersburg, Pa. Locking device for sliding doors	311,760	Feb. 3	390	106	30	422
Hoke, Henry E. (See Hoke, David, assignor.)						
Hoke, Henry E., Chambersburg, Pa. Fastening device for the doors of freight-cars	311,761	Feb. 3	392	107	30	422
Holbrook, Byron, Kenosha, assignor to J. Cryderman, Milwaukee, Wis. Machine for reducing tan-bark	321,725	July 7	418	112	32	78
Holbrook, Frank B., et al. (See Jeffrey, Henry D., assignor.)						
Holbrook, Walter A., Milwaukee, Wis. Inside shutter	320,786	June 23	2497	661	31	1528
Holcomb, Abel P., Silver Creek, N. Y. Steam-generator	318,902	May 26	2644	701	31	1032
Holcomb, Abel P., Silver Creek, N. Y. Steam-generator	324,694	Aug. 18	1765	486	32	866
Holcomb, Charles F. (See Holcomb, James R., J. D., and C. F.)						
Holcomb, Frank L., assignor to one-half to J. F. Mensing, Manhattan, Kans. Cultivator-gearing	320,787	June 23	2499	661	31	1529
Holcomb, James R., J. D., and C. F., Cleveland, Ohio. Mechanical telephone	320,935	June 30	2697	715	31	1572
Holcomb, John D. (See Holcomb, James R., J. D., and C. F.)						
Holcomb, Oscar M. (See Richard and Holcomb.)						
Holcomb, Wallace W. (See Sharp, Van Schaick, assignor.)						
Holcombe, Alfred G., assignor to Equitable Electric Company, New York, N. Y. Automatic responding-instrument for electric circuits	319,718	June 9	1012	268	31	1243
Holcombe, Alfred G., assignor to Equitable Electric Company, New York, N. Y. Producing electric responding-signals	321,110	June 30	2936	778	31	1614
Holcombe, Alfred G., assignor to Equitable Electric Company, New York, N. Y. Electric arc lamp	329,166	Oct. 27	2232	578	33	427
Holcombe Bros. and Stone Manufacturing Company. (See Holcombe, William H. and C. A., assignors.)						
Holcombe, Clifford A. (See Holcombe, William H. and C. A.)						
Holcombe, William H. and C. A., assignors to Holcombe Bros. and Stone Manufacturing Company, (limited.) Beloit, Wis. Pump	321,499	July 7	119	32	32	24
Holden, Arthur L. (See Burton, Charles C., assignor.)						
Holden, Daniel L., Cincinnati, Ohio, assignor, by mesne assignments, to Little Giant Ice Machine Company, Covington, Ky. Ice and refrigerating machine. (Reissue)	10,590	Apr. 28	2720	708	31	514
Holden, Edgar, Newark, N. J. Filter-bed	323,680	Aug. 4	329	111	32	585
Holden, Edward G., Oak Ridge, Mo. Bolt-fastener	330,110	Nov. 10	947	246	33	692
Holden, Frank H., Chicago, Ill. Mosquito-net	312,471	Feb. 17	1391	384	30	622
Holden, George C., Worcester, Mass. Envelope-opener and paper-cutter	318,475	May 26	2063	557	31	929
Holden, George R., Michigan City, Ind., assignor to Warren Featherbone Company, Chicago, Ill. Machine for removing plumage from feathers	328,404	Oct. 13	1177	304	33	223
Holden, George R., Michigan City, Ind., assignor to Warren Featherbone Company, Chicago, Ill. Machine for reducing quills, feathers, &c. to fiber	328,680	Oct. 20	1551	404	33	297
Holden, Horace. (See Cooke, Robert P., assignor.)						
Holden, Horatio N. (See Sneden and Holden.)						
Holden, Jonas H., Michigan City, Ind., assignor to Warren Featherbone Company, Chicago, Ill. Machine for splitting quills, feathers, &c.	329,167	Oct. 27	2233	578	33	427
Holden, Jonathan, J. Burnley, and J. Fawell, Bradford, county of York, England. Stop-motion device for wool-combing machines	312,271	Feb. 17	1105	305	30	569
Holden, William, Baldwinville, Mass. Nursery-chair	331,748	Dec. 1	754	191	33	1132
Holden, William, Baldwinville, Mass. Convertible chair and velocipede	333,414	Dec. 20	3106	809	33	1578
Holder, Benjamin F. (See Wilson and Holder.)						
Holder, William R., Verbena, Ala. Lubricator	331,436	July 7	28	8	32	8
Holding, Joseph, Manchester, county of Lancaster, England. Whip	312,719	Feb. 24	1719	472	30	692
Holdsworth, John W. (See Pringle and Holdsworth.)						
Holdsworth, William, assignor to Detroit Casket Company, Detroit, Mich. Coffin	331,707	Dec. 1	695	171	31	1121
Holeman, Adam, Bronson, Kans. Gate	327,684	Oct. 6	249	61	33	43
Holgate, George, Philadelphia, Pa. Preserving meats	312,995	Feb. 24	2080		30	756
Holgate, George, Philadelphia, Pa. Apparatus for preserving by gases	313,736	Mar. 10	947	245	30	961
Holgate, George, Philadelphia, Pa. Preserving animal matters	326,035	Sept. 8	1082		32	1232
Holland, Charles, Jr., assignor to F. L. Houghton, trustee, Boston, Mass. Apparatus for firing furnaces	331,197	Nov. 24	2357	637	33	975

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Holland, Charles L. (See Smith and Holland.)						
Holland, Enoch P., et al. (See Willard, Thomas, assignor.)						
Holland, Franklin, Grand Rapids, Mich. Cutter-head	326,083	Sept. 29	2392	628	32	1492
Holland, Franklin, Grand Rapids, Mich. Carving-machine	329,647	Nov. 3	299	76	33	561
Holland, John J., San Francisco, Cal. Cut-off-valve gear	332,397	Dec. 15	1685	441	33	1313
Holland, William F. (See Agnew, William C., assignor.)						
Holland, William T., Brooklyn, N. Y. Apparatus for utilizing the waste heat from ranges	324,841	Aug. 25	1967	540	32	911
Hollenbeck, Frank A., assignor of one-half to T. F. Clark, Syracuse, N. Y. Mortise-lock	317,941	May 12	1351	363	31	760
Hollett, Ira W., assignor to Chicago Liquid Sack Company, Chicago, Ill. Paper box or						
pail	317,997	May 19	1439	386	31	804
Hollett, Ira W., assignor to Chicago Liquid Sack Company, Chicago, Ill. Making paper						
boxes	332,713	Dec. 22	2147	567	33	1400
Holley, Dwight S., assignor to Snell Manufacturing Company, Fiskdale, Mass. Die for						
shaping single-twist augers	331,708	Dec. 1	696	171	33	1121
Hollick, Frederick, New York, assignor of one-half to J. J. Greenough, Syracuse, N. Y.						
Amalgamating ores	314,578	Mar. 31	2086		30	1216
Hollinger, Jacob, D. A. Wolgamot, and A. A. Gonser, Millersburg, Ohio. Horseshoe	326,738	Sept. 22	2056	534	32	1414
Hollingsworth, Jerome, et al. (See Springer, Stephen H., assignor.)						
Hollingsworth, Joel C., Wilna, Md. Hub for vehicle-wheels	314,024	Mar. 17	1347	351	30	1045
Hollingsworth, Joseph, assignor of one-half to S. Witkowski, Kilbourne, La. Crane	324,695	Aug. 18	1766	487	32	866
Hollingsworth, Newton. (See Hollingsworth, Wilson and N.)						
Hollingsworth, Wilson and N., Hemlock, Ind. Stalk-rake	326,730	Sept. 22	2056	535	32	1414
Hollis, George W., et al. (See Taylor, Eugene H., assignor.)						
Hollister, Solomon D., Crystal Falls, Mich. Wire bed-slat fastener	325,082	Aug. 25	2288	629	32	971
Hollner, Adolf, Dennison, Ohio. Composition of matter for lining or coating boxes, &c.	326,115	Sept. 15	1185		32	1248
Holloway, Charles T., Baltimore, Md. Salvage-corps wagon	316,971	May 5	53	14	31	532
Holloway, James C., San Francisco, Cal. Oatmeal-machine	324,556	Aug. 18	1560	430	32	828
Holloway, Wilbur F., Cleveland, Ohio. Book-holder	318,253	May 19	1766	472	31	866
Hollweg, Carl, Barmen, Germany. Bracket-arm	330,587	Nov. 17	1551	415	33	816
Holly, Arthur I. (See Holly, Solomon T. and A. I.)						
Holly, John I. (See Couch, John O., assignor.)						
Holly, John I. (See Freeman, Augustus M., assignor.)						
Holly, John I. (See Smith and Couch, assignors.)						
Holly, John I., et al. (See Freeman, Augustus M., assignor.)						
Holly, John L., et al. (See Schorb, John M., Jr., assignor.)						
Holly, Solomon T. and A. I., Rockford, Ill. Pillow-sham holder	317,535	May 12	621	211	31	620
Holm, Christian. (See Cave, Holm, and Blandow.)						
Holman, Charles T., Linesville, Pa. Harrow	317,787	May 12	1145	303	31	741
Holman, Daniel F., Chicago, Ill. Railway-track layer	315,034	Apr. 7	63	15, 16	31	13
Holmberg, Gustaf L., assignor of one-half to A. Charles and C. E. Carlson, Minneapolis,						
Minn. Force-pump	313,669	Mar. 10	856	223	30	947
Holmes, Alonzo J., Saratoga Springs, N. Y. Portable folding wardrobe	318,252	May 19	1765	472	31	866
Holmes, Booth & Haydens. (See Hayden, Hiram W., assignor.)						
Holmes, Booth & Haydens. (See Jenkins, Nicholas, assignor.)						
Holmes Burglar Alarm Telegraph Company. (See Greenfield, Edwin T., assignor.)						
Holmes, Charles P., Gouverneur, N. Y., and N. M. George, Danbury, Conn. Car-axle lu-						
bricator	322,292	July 14	1182	310	32	925
Holmes, Chester J., Stafford Springs, Conn. Window-sash	318,736	May 26	2414	644	31	992
Holmes, Daniel M., Arlington, N. J. Cake-machine	323,681	Aug. 4	390	111	32	505
Holmes, Daniel M., Arlington, N. J. Candy-machine	323,682	Aug. 4	393	112	32	506
Holmes, Edwin. (See Carhart, Edwin M., assignor.)						
Holmes Electric Protective Company. (See Lyon, Frank G., assignor.)						
Holmes, George W. (See Robinson and Holmes)						
Holmes, Hector A. and W. M., Hoosick Falls, N. Y. Automatic grain-binder	329,560	Nov. 3	188	51	33	541
Holmes, Hiram A., Epsom, N. H. Door-hanger	316,037	Apr. 21	1467	383	31	279
Holmes, Irving L., Providence, R. I. Adjustable stop for calipers	315,621	Apr. 14	902	237	31	167
Holmes, John. (See Warner, William F., assignor.)						
Holmes, Joseph E., Washington, D. C. Instrument for regulating the flow of gases and						
liquids in refrigerators and other structures	332,150	Dec. 8	1348	349	33	1246
Holmes, Joseph R., London, county of Middlesex, England. Inextinguishable lamp for						
marine and land purposes	311,583	Feb. 3	168	47	30	380
Holmes, Joseph R., and J. F. Egan, Elgin, Ill. Last	321,933	Aug. 11	713	200	32	665
Holmes, Kirk W., Columbus, Ohio. Vehicle-top	332,529	Dec. 15	1871	469	33	1344
Holmes, Michael, Lodi, Wis. Coffee-roaster	311,322	Jan. 27	1559	425	30	307
Holmes, Nathan L., Racine, Wis. Circle-post for wagons	311,000	Jan. 20	1094	299	30	216
Holmes, Nathan L., Racine, Wis. Circle-iron for wagons	323,914	Aug. 11	714	200	32	665
Holmes, Nathan L., Racine, Wis. Vehicle running-gear	326,116	Sept. 15	1186	303	32	1248
Holmes, Nathan L., Racine, Wis. Wagon-gear	330,118	Nov. 10	943	246	33	692
Holmes, Watson M. (See Holmes, Hector A. and W. M.)						
Holmes, Watson M., Hoosick Falls, N. Y. Tension device for harvester-binders	324,887	Oct. 20	1811	472	33	346
Holroyd, William F. (See Dalton, Edward F., assignor.)						
Holst, Constantyn P., Amsterdam, Holland, assignor of one-half to J. R. Planten, Brook-						
lyn, N. Y. Valve-gear	323,935	Aug. 11	717	200	32	665
Holsten, Henry. (See Adams, Thomas C., assignor.)						
Holt, Albert T., Brooklyn, assignor to Loewenthal & Morganstern, New York, N. Y.						
Manufacture of hose	321,149	July 28	2364	627	32	454
Holt, Arthur J., Grand Rapids, Mich. Electric switch	318,987	June 2	76	19	31	1062
Holt, Arthur J., Cleveland, Ohio. Lightning-arrester	330,486	Nov. 17	1430	382	33	794
Holt, Charles H., Philadelphia, Pa. Grate for boiler-furnaces	312,472	Feb. 17	1392	384	30	622
Holt, Charles H., Philadelphia, Pa. Tube-cleaner for fuel-economizers or feed-water heaters.	328,220	Oct. 13	924	240	33	176
Holt, Edward. (See Hebblewaite and Holt.)						
Holt, George H., West Chelmsford, Mass. Pump	312,852	Feb. 24	1897	520	30	723
Holt, Henry A., Wilton, N. H. Planing-machine	322,935	July 28	2068	551	32	399
Holt, James, Dunham Massey, county of Chester, England. Potato-digging machine	319,581	June 9	830	221	31	1210
Holt, Joseph. (See Holt, William J. and J.)						
Holt, Mary J., San Francisco, Cal. Meat and provision safe	317,998	May 19	1440	386	31	804
Holt, Noah W., Buffalo, N. Y. Roller-mill	310,430	Jan. 6	345	95	30	67

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Holt, Noah W., Buffalo, N. Y. Flour-bolt. (Reissue).....	10,617	June 30	3317	884	31	1686
Holt, Noah W., assignor to G. T. Smith Middlings Purifier Company, Jackson, Mich. Dust-collector.....	333,403	Dec. 29	3172	829	33	1390
Holt, Orrin S., Rock Island, Ill. Rift-sawing machine.....	331,135	Nov. 24	2965	615	33	958
Holt, Robert B., assignor of one-half to I. N. Walton, Guthrie, Ky. Circular-saw mill.....	332,714	Dec. 22	2149	567	33	1400
Holt, Thomas, Jr., Midland Park, and J. Mellor, Paterson, N. J.; said Mellor assignor to said Holt. Terry-loom.....	327,685	Oct. 6	250	61	33	43
Holt, William H. (See Fifield and Holt.).....						
Holt, William L., Harrison, Ark. Planter, cotton-chopper, and scraper.....	326,560	Sept. 22	1776	465	32	1386
Holt, William J. and J. Paterson, N. J. Barber's turn-indicator.....	318,623	May 26	2968	605	31	964
Holton, Edward K., Webster Grove, assignor to St. Louis Shovel Company, St. Louis, Mo. Shovel-handle.....	321,028	June 30	2986	751	31	1596
Holton, Francis H., Brooklyn, N. Y. Erasive rubber.....	328,779	Oct. 20	1667	434	33	319
Holton, Francis H., assignor to F. H. Holton, Jr., Brooklyn, N. Y. Erasive rubber.....	328,778	Oct. 20	1666	434	33	319
Holton, John L., New Lisbon, Ohio. Sheet-metal-roofing machine.....	310,824	Jan. 13	848	230	30	166
Holts Patent Fire Arms Manufacturing Company. (See Knous, Franklin F., assignor.).....						
Holtzer, Charles W., Brookline, Mass. Resetting annunciator-drops.....	315,035	Apr. 7	67	16	31	14
Holtzer, Charles W., Boston, Mass. Electric battery.....	327,878	Oct. 6	477	124	33	85
Holtzmann, Phillip, and H. Mayer, New York, N. Y. Vertical tube-boiler.....	333,012	Dec. 22	2553	672	33	1475
Holz, Fred, Anderson's Ferry, assignor to Ligowsky Clay Pigeon Company, Cincinnati, Ohio. Target-trap.....	330,704	Nov. 17	1700	459	31	847
Holzbog, George, et al. (See Schneck, Henry P., assignor.).....						
Holzbog, George H., and M. J. Weickler, Jeffersonville, Ind. Thill-coupling.....	330,659	June 23	2346	620	31	1459
Holzer, William, Harrison, N. J. Manufacturing incandescent electric lamps.....	332,150	July 28	2306	627	32	425
Hölzgens, Joseph, Langerwehe, Prussia, assignor to O. Von Auw, Ehrenfeld, Germany. Holder for needles and other objects.....	324,557	Aug. 18	1561	431	32	829
Holzman, Michael. (See White, Charles, assignor.).....						
Homan, Andrew J., New York, N. Y. Self-closing faucet.....	325,412	Sept. 1	266	66	32	1066
Homan, Louis, Cincinnati, Ohio. Candle-molding machine.....	333,013	Dec. 22	2554	672	33	1475
Home Gas and Oil Stove Company. (See Withingham and Jones, assignors.).....						
Home Vapor Bath and Disinfecter Company. (See Rosenfield, William W., assignor.).....						
Homscher, George W., Dublin, Ind. Fence-machine.....	322,822	July 21	1899	{ 504 505 }	32	361
Honegger, Fredrick. (See Letson and Honegger.).....						
Honey, J. W. (See Spray, William R., assignor.).....						
Honeywell, Oliver O., New Baltimore, Ohio. Wagon-brake.....	333,221	Dec. 29	2248	745	33	1533
Honigsmann, Moritz, Grevenberg, near Aix-la-Chapelle, Germany. Storing power by steam under pressure.....	324,696	Aug. 18	1768	487	32	867
Honigsmann, Moritz, Aix-la-Chapelle, Germany. Utilization of exhaust-steam. (Reissue).....	10,675	Dec. 22	2670	700	33	1496
Honigsmann, Moritz, Grevenberg, near Aix-la-Chapelle, Germany. Storing power.....	333,222	Dec. 29	2249	745	33	1533
Honigsmann, Moritz, Aix-la-Chapelle, Germany. Production of steam at a high pressure from steam at a lower pressure.....	333,223	Dec. 29	2251	745	33	1533
Honise, William H. (See Lorenz and Honise.).....						
Honise, William H., Hartford, Conn., assignor to F. W. Leinbach and C. A. Woll, Bethlehem, Pa. Paper-bag machine.....	329,561	Nov. 3	190	51	33	541
Hood, Arthur F. (See Hood, Freeman W. and A. F.).....						
Hood, Benjamin L., assignor to L. Daniels, Albany, N. Y. Filter.....	331,790	Dec. 8	808	{ 205 206 }	33	1150
Hood, Calvine B., Kosse, Tex. Combined seed-planter and guano-distributor.....	326,740	Sept. 22	2057	535	32	1414
Hood, Freeman W., Boston, Mass. Registering device for water-meters.....	315,786	Apr. 14	1127	906	31	211
Hood, Freeman W., Boston, Mass. Device for regulating the throw of water-meter pistons.....	316,038	Apr. 21	1468	383	31	279
Hood, Freeman W., Boston, Mass. Lock for fire-arms.....	316,622	Apr. 28	2151	593	31	427
Hood, Freeman W. and A. F., assignors, by mesne assignments, to F. W. Hood, Boston, Mass. Piston water-meter.....	318,476	May 20	2064	556	31	929
Hood, Freeman W., and L. W. Lombard, Boston, Mass., assignors to Lang Hydraulic Machine Company, Portland, Me. Apparatus for actuating the valves of fluid-meters.....	331,136	Nov. 24	2267	{ 615 616 }	33	959
Hood, Gustave, Newark, N. J., assignor to D. M. Read, New York, N. Y. Writing-pad cover.....	328,221	Oct. 13	926	241	33	176
Hood, Harrison P. (See Hazelrigg, Jacob, and Hood.).....						
Hood, John, and S. H. Reynolds, Boston, Mass. Dental instrument.....	321,814	July 7	552	145	32	102
Hood, Willis F., Deerfield, Mich. Rein-holder.....	327,879	Oct. 6	478	125	33	85
Hook, George B., Brewer, Me. Hammock-chair.....	330,705	Nov. 17	1701	459	33	847
Hook, Joseph. (See Williams and Hook.).....						
Hook, William H., Springdale, Ky. Churn-dasher.....	331,822	Dec. 8	944	244	33	1175
Hooker, Thomas. (See Balz, John, assignor.).....						
Hooker, Thomas. (See Sweet, John E., assignor.).....						
Hooker, William D., St. Louis, Mo. Valve-movement for direct-acting engines.....	313,868	Mar. 17	1136	296	30	1005
Hooley, Thomas, Davenport, Iowa. Arithmetical chart.....	322,376	July 14	1300	339	32	247
Hoop, Henry W., Sr. (See Silberberg, Rudolf, assignor.).....						
Hooper, Mary P. C., New York, N. Y. Grated shovel.....	316,023	Apr. 28	2254	593	31	428
Hooper, Mary P. C., New York, N. Y., assignor, by mesne assignments, to Carpenter Straw Sewing Machine Company. Machine for sewing straw braid. (Reissue).....	10,600	May 26	2690	{ 712 713 }	31	1040
Hooper, William J. (See Price, George W., assignor.).....						
Hoops, Henry W., Jr. (See Silberberg, Rudolf, assignor.).....						
Hoops, Herman W. (See Hawley and Hoops.).....						
Hoops, John H., Newport, Ky. Curtain-light frame for carriages.....	326,036	Sept. 8	1083	276	32	1222
Hooton, Marena M., Chicago, Ill. Device for starting the dead-wheel in mutilated gears.....	326,984	Sept. 29	2293	{ 626 627 628 629 630 631 }	32	1482
Hooton, Marena M., assignor, by mesne assignments, to Omega Binder Company, Chicago, Ill. Grain-binder.....	327,066	Sept. 29	2526	{ 658 659 660 661 }	32	1506
Hoosier Drill Company. (See Westcott, John M., assignor.).....						
Hooven, James, Norristown, Pa. Machine for bending tube-skelps.....	320,936	June 30	2698	716	31	1572
Hoover, De Witt C., Buffalo, N. Y. Combined shutter and diaphragm for photographic cameras.....	317,788	May 12	1148	304	31	741
Hoover, George W., Keithsburg, Ill. Car-coupling.....	319,253	June 2	387	103	31	1121
Hoover, Isaac W., Milan, Ohio. Potato-digger.....	318,234	May 19	1768	473	31	866
Hoover, Jacob. (See Michael and Geib, assignors.).....						
Hoover, Lorenzo D., Rock Island, Ill. Car-coupling.....	330,120	Nov. 10	948	246	33	692
Hoover, William, Salt River, Mich. Railway-rail.....	317,536	May 12	822	211	31	681
Hoover, William H. (See Evans, John, assignor.).....						
Hope, Benjamin F., Sag Harbor, N. Y. Watch case.....	330,487	Nov. 17	1431	383	33	794
Hope, William, London, England, and R. S. Ripley, Paris, France, assignors to Société des Fonderies et Forges de Terre-Noire, la Voulte et Besseges. Cartridge for ordnance.....	314,127	Mar. 17	1486	388	30	1070

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Hop-dale Machine Company. (See Dutcher, Frank J., assignor.)						
Hopedale Machine Company. (See Fay, Rimmon C., assignor.)						
Hopedale Machine Company. (See Foss, John F., assignor.)						
Hopedale Machine Company. (See Northrop and Fay, assignors.)						
Hopf, Carl F. (See Horn and Hopf.)						
Hopgood, Daniel T., Morganfield, Ky. Water-gate	322,607	July 21	1617	428	32	310
Hopgood, John F., Morganfield, Ky. Gate	331,604	July 7	367	71	32	51
Hopkins, Andrew J., Rochester, N. Y. Double-acting pump	330,322	Nov. 10	1303	352	33	744
Hopkins, Cabel B., Payne's Depot, Ky. Cash register and indicator	321,815	July 7	553	145	32	102
Hopkins, Cabel B., Louisville, Ky. Roller-skate	323,780	Oct. 20	1063	435	33	320
Hopkins & Dickinson Manufacturing Company. (See Kelly, Archibald, assignor.)						
Hopkins, Garrett W., Trumansburg, assignor of one-half to G. V. Benjamin, Ithaca, N. Y. Railway snow-plow	310,972	May 5	14	14, 15	31	532
Hopkins, George M., Brooklyn, N. Y. Telephone-transmitter	314,811	Mar. 31	2452	647	30	1224
Hopkins, George M., Brooklyn, N. Y. Arc lamp	325,802	Sept. 8	793	199	32	1168
Hopkins, George M. and I. N., Brooklyn, N. Y. Gas-engine	326,561	Sept. 22	1777	465	32	1366
Hopkins, George M. and I. N., Brooklyn, N. Y. Gas-engine	326,562	Sept. 22	1779	466	32	1366
Hopkins, Henry C., Jr., assignor of one-half to H. C. Hopkins, Covington, Ky. Clothes-wringer	322,945	Oct. 27	1904	498	33	369
Hopkins, Henry L., Caro, Mich. Scroll-sawing machine	324,842	Aug. 25	1060	540	32	911
Hopkins, I. Newton. (See Hopkins, George M. and I. N.)						
Hopkins, I. Newton, Brooklyn, N. Y. Tie for bales and packages	312,637	Feb. 21	1611	443	30	673
Hopkins, I. Newton, Brooklyn, N. Y. Tie for bales and packages	326,553	Sept. 22	1781	467	32	1367
Hopkins, James S., South Framingham, Mass. Overshoe	317,330	May 5	5-3	150	31	630
Hopkins, Lyman R., Brooklyn, N. Y. Thread-unwinder	320,718	June 21	2499	602	31	1529
Hopkins, Samuel S., Norwich, Conn. Hammer for fire-arms	311,323	Jan. 27	1560	425	30	307
Hopkins, Silvanus C., Boston, Mass. Folding chair	323,564	Sept. 22	1782	467	32	1367
Hopkins, William, Dubuque, Iowa. Radiator	314,128	Mar. 17	1488	328	30	1070
Hopkins, William J. (See Wilcox and Hopkins.)						
Hopkins, William P., Lawrence, Mass. Nailing-machine for boots or shoes	331,279	Dec. 1	58	14	33	1010
Hopkinson, John, Westminster, county of Middlesex, England. Conductor for electric railways	323,083	Aug. 23	2229	620	32	971
Hopper, Andrew A., St. Louis, Mo. Car-coupling	313,546	Apr. 23	2157	567	31	410
Hopper, Thomas C., Philadelphia, Pa. Automatic pressure-regulator	328,681	Oct. 20	1552	404	33	297
Hopper, John J., Springfield, Ohio. Feed-water heater	318,112	May 19	1569	425	31	832
Hopper, John J., assignor of one-half to W. A. Ross, Springfield, Ohio. Tobacco-cutter	310,431	Jan. 6	347	95	30	68
Hoppin, Curtis B. (See La Point and Hoppin.)						
Hoppins, Abiram, Kingston, Ontario, Canada. Cutter-head	311,070	Dec. 8	1070	278	33	1109
Hopson, Lucien, Lampasas, Tex. Projectile	313,075	Mar. 3	40	13	30	787
Hopwood, Elijah M. (See Hostetler, Bower, and Hopwood.)						
Horack, Charles L., Brooklyn, N. Y. Automatic fire-extinguisher	310,422	Jan. 6	346	95	30	68
Horack, Charles L., Brooklyn, N. Y. Automatic fire-extinguisher	313,423	Mar. 3	535	141	30	877
Horan, Daniel, Chicago, Ill. Still	333,464	Dec. 29	3174	820	33	1590
Horbaczewski, Edmund, et al. (See Czvetkovic, Mitar D., assignor.)						
Horey, John, and C. Marsh, Rosendale, Wis. Bob-sleigh	333,224	Dec. 29	2832	746	33	1534
Horn, Adolph, and H. Gundlach, Chicago, Ill. Folding chair	332,342	Dec. 15	1607	422	33	1300
Horn, Adolph, and M. J. Leick, Chicago, Ill. Combined shutter-fastener and shutter-opener	332,343	Dec. 15	1608	422	33	1300
Horn, Ferdinand. (See Kronenbitter, Anthony, assignor.)						
Horn, Ferdinand, assignor of one-half to H. Hay, Coshocton, Ohio. Vehicle-spring	323,335	July 28	2630	702	32	503
Horn, George A., Newark, N. Y. Reclining-chair	316,973	May 5	57	15	31	533
Horn, John C., and C. F. Hopf, Chicago, Ill. Folding bed	317,361	May 5	584	151	31	630
Hornbeck, Carrie E. (See Hornbeck, Cornelius F., assignor.)						
Hornbeck, Cornelius F., assignor to C. E. Hornbeck, Owego, N. Y. Potato-digger	312,113	May 19	1591	425	31	832
Hornbostel, Charles, Brooklyn, N. Y. Mixing, diffusing, leaching, and concentrating apparatus	328,585	Oct. 20	1412	368	33	272
Horne, Eli C., Jasper, Fla. Cotton-gin	311,001	Jan. 20	1026	300	30	217
Horne, John H., Lawrence, Mass. Roll for paper-pulp engines	310,203	Jan. 6	57	16	30	13
Horne, Robert H., and S. C. Smith, Marion, Ind. Box for scalding poultry	329,742	Nov. 3	428	109	33	586
Horne, James H., Oxford, N. C. Apparatus for burning and preparing plant-beds	323,151	July 23	2367	628	32	455
Horne, John W., Lake City, Minn. Hammock-support	321,027	Aug. 11	837	231	32	687
Horne, Joseph W., New York, N. Y. Printing apparatus	316,568	Apr. 21	1776	467	31	335
Horney, Charles W., Brooklyn, N. Y. Last	332,751	Dec. 8	1350	349	33	1246
Hornig, Julius L., Jersey City, N. J. Metal-extracting apparatus	313,508	Mar. 3	948	62, 63	30	823
Horning, Francis A., et al. (See Horning, William, assignor.)						
Horning, William, assignor to F. A. Horning and E. J. Vibbar, Johnstown, N. Y. Corner-piece for oil-cloths	315,409	Apr. 7	585	151	31	105
Hornor, William H., and A. Crotchett, Baxter Springs, Kans. Corn-planter	312,853	Feb. 24	1899	520	30	724
Hornby, James, F. C. Southwell, and J. Innocent, Grantham, county of Lincoln, England. Dropping-cradle for harvesting-machines	327,087	Sept. 29	2537	661	32	1507
Horowitz, Heinrich, New York, N. Y. Culinary grater	331,709	Dec. 1	697	173	33	1121
Horr, Otis W., Chicopee Falls, Mass. Breech-loading gun	323,936	Aug. 11	719	201	32	665
Horral, Albion, et al. (See Horral, William A., assignor.)						
Horral, Nelson, et al. (See Horral, William A., assignor.)						
Horral, Sylvester, et al. (See Willmore, William C., assignor.)						
Horral, William A., assignor of one-half to A. and N. Horral, Washington, Ind. Mail-bag	317,942	May 12	1352	363	31	780
Horne, Henry M., Blossom Prairie, Tex. Running-gear for wagons	331,137	Nov. 24	2270	616	33	959
Horrocks, James. (See Horrocks, John and J.)						
Horrocks, John and J., Manchester, county of Lancaster, England. Machine for doubling and winding yarn or thread upon bobbins	313,869	Mar. 17	1137	296	30	1005
Horrocks, William, Ilon, N. Y. Cabinet or case for type-writers	333,225	Dec. 29	2855	746	33	1534
Horsfield, Alfred, Hazleton, Pa. Steam-actuated valve	321,605	July 7	269	71	32	52
Horsley, James, Millersburg, Pa., and S. T. Jull, Cleveland, Ohio. Car-coupling	326,218	Sept. 15	1337	346	32	1276
Horton, Charles A., Pawtucket, R. I. Anti-rattler for thill-couplings	312,477	May 26	2066	558	31	929
Horton, Eliphalel, et al. (See Cary, Charles H., assignor.)						
Horton, Emmet, Dundee, N. Y. Combined hammer and nail-feeding device	319,719	June 9	1016	269	31	1244
Horton, Emmet, Dundee, N. Y. Combined hammer and nail-feeding device	331,060	Nov. 24	2152	584	33	939
Horton, Eugene, Prairieville, Mich. Land-roller	314,246	Mar. 24	1629	431	30	1105

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Horton, Everett, New Haven, Conn. Machine for finishing clock-pallets	312,203	Feb. 10	1018	{ 277 278 }	30	544
Horton, Everett, New Haven, Conn. Automatic milling-machine	316,786	Apr. 28	2498	{ 652 653 }	31	472
Horton, Everett, New Haven, Conn. Tool for turning metals	316,787	Apr. 28	2502	653	31	473
Horton, Everett, New Haven, Conn. Die for finishing blanks from sheet metal	317,789	May 12	1149	304	31	741
Horton, Henry A. R., Cleburne, Tex. Watch-maker's pliers	317,648	May 12	968	249	31	707
Horton, Hilton R., St. Louis, Mo. Motor	326,117	Sept. 15	1168	304	32	1248
Horton, James A., Reading, Mass. Loose pulley	313,497	Mar. 10	638	106	30	904
Horton, James A., Reading, Mass. Molding-machine	319,413	June 2	582	{ 158 159 }	31	1159
Horton, Numon N., Kansas City, Mo. Folding cot	324,847	Aug. 25	1971	541	32	919
Horton, Numon N., Kansas City, Mo. Convertible reclining chair	327,554	Oct. 6	71	16	33	14
Horton, Numon N., Kansas City, Mo. Surgeon's or reclining chair	327,666	Oct. 6	251	62	33	44
Horton, Peter D., Oakland, Cal. Fly-trap	321,437	July 7	29	8	32	8
Horton, Robert F., Walnut Lane, La. Cotton-press	331,300	Dec. 1	61	15	33	1010
Horton, Seth L., Providence, R. I. Memorandum-calendar	328,586	Oct. 20	1414	368	33	273
Horton & Son Company, E. (See Slate, Dwight, assignor.)						
Hosch, Carl, Haida, Austria-Hungary. Bobbin-winding attachment for sewing-machines	311,978	Feb. 10	720	197	30	459
Hoskins, Clannar P. (See Schartz, Ellert O., assignor.)						
Hoskins, John, Chicago, Ill. Muffle-furnace for assaying and annealing	315,036	Apr. 7	69	16	31	14
Hoskins, John G., Baltimore, Md. Can-filling machine	315,622	Apr. 14	903	237	31	168
Hosmer, Clara E., Auburn, N. Y. Legerin	320,557	June 23	2928	524	31	1473
Hosmer, George S., Racine, Wis. Equalizer for vehicle-springs	315,291	Apr. 7	428	108	31	73
Hosmer, Riley J., Romeo, Mich. Stone lifter and carrier	329,369	Oct. 27	2565	662	33	487
Hosterman, David R., et al. (See Hiser, Daniel B., assignor.)						
Hostetler, Peter J., O. C. Bower, and E. M. Hopwood, Bushton, Ill. Cultivator	311,822	Feb. 3	479	171	30	439
Hostetter, David R., Cleveland, Ohio. Cover for varnish-kettles	312,854	Feb. 24	1900	521	30	724
Hotchkiss, Arthur E., Cheshire, Conn. Stem-winding watch	325,247	Sept. 1	20	7	32	1019
Hotchkiss, Frank A. (See Prefontaine, George G., assignor.)						
Hotchkiss, Henry, Cheshire, Conn. Or-shoe	312,352	Feb. 17	1232	338	30	592
Hotchkiss, James F. (See Squire, Charles R., assignor.)						
Hotchkiss, John C., et al. (See Smith, William E., assignor.)						
Hotchkiss, Nathaniel S. (See Goddu, Louis, assignor.)						
Hotchkiss, Samuel M., Hartford, Conn. Manufacture of barrel-bodies from pulp	318,737	May 26	2415	{ 644 645 646 }	31	993
Hotchkiss, Samuel M., Hartford, Conn. Manufacture of barrel-bodies from pulp	318,742	May 26	2426	{ 649 650 651 }	31	994
Hotchkiss, Samuel M., Hartford, Conn. Machine for drying and pressing pulp barrel-bodies	319,976	June 16	1384	{ 303 304 305 }	31	1316
Hotchkiss, Samuel M., Hartford, Conn. Manufacture of barrel-bodies from pulp	339,043	Oct. 27	2059	{ 534 535 536 }	33	396
Hotchkiss, Samuel M., and B. A. Mason, Hartford, Conn. Manufacture of barrel-bodies from pulp	318,738	May 26	2418	{ 645 646 647 }	31	993
Hotchkiss, Samuel M., and B. A. Mason, Hartford, Conn. Machine for drying and pressing pulp barrel-bodies	318,739	May 26	2421	{ 647 648 649 }	31	993
Hotchkiss, Samuel M., and B. A. Mason, Hartford, Conn. Making barrel-heads from pulp	318,740	May 26	2424	648	31	994
Hotchkiss, Samuel M., and B. A. Mason, Hartford, Conn. Press for drying barrel-heads of pulp, &c	318,741	May 26	2425	{ 648 649 }	31	994
Hotchkiss & Upson Company. (See Smith, Frederick A., assignor.)						
Hotham, John, Hillside, Pa. Lime-distributor	323,683	Aug. 4	396	{ 113 114 }	32	597
Houchin, Thomas W. (See Houchin, Waldo P., assignor.)						
Houchin, Waldo P., assignor to T. W. Houchin, New York, N. Y. Insect-powder gun	326,037	Sept. 8	1074	276	32	1222
Houck, Austin S. and E., Bedford, Iowa. Corn-planter	320,063	June 16	1496	{ 395 396 }	31	1337
Houck, Edwin. (See Houck, Austin S. and E.)						
Houck, Frank A., and T. C. Carter, Holden, Mo. Churn	325,084	Aug. 25	2290	630	32	973
Houck, John A., assignor of one-half to J. C. Grout, Detroit, Mich. Automatic grease-cup	312,204	Feb. 10	1021	279	30	545
Hough, Earl F., Oakland, Cal. Egg-beater and liquid-mixer	325,240	Sept. 8	837	209	32	1176
Hough, Edward S., Brockley, county of Kent, England. Packing for stuffing-boxes	328,846	Oct. 20	1755	457	33	336
Hough, Horace C., assignor of one-half to J. B. Roberts, Oshkosh, Wis. Ironing-table	316,363	Apr. 21	1899	503	31	357
Hough, William W., assignor to himself and J. P. Roberts, Mound City, Ill. Minnow-bucket	321,606	July 7	270	72	32	52
Houghton, Charles F. (See Cloud, John W., assignor.)						
Houghton, F. J. (See Hug, John, assignor.)						
Houghton, Frederick L., trustee. (See Holland, Charles, Jr., assignor.)						
Houghton, George. (See Fuller, Eben E., assignor.)						
Houghton, Stephen C., San Francisco, Cal. Blower for fire-grates	310,825	Jan. 13	851	231	30	167
Houghton, William. (See Strobbridge and Houghton.)						
Houk, Wilbur G., Lafayette, Ind. Hay and straw rack	332,530	Dec. 15	1872	490	33	1344
Houlehan, James, Toledo, Ohio, assignor of one-half to W. A. Bunton, Boston, Mass., and seven-sixteenths to J. S. Barker and E. E. Dwight, Toledo, Ohio. Telephone annunciator and circuit	333,014	Dec. 23	2556	673	33	1476
House, Henry A., Bridgeport, Conn. Hat-stay	330,979	Nov. 24	2063	558	33	921
House, Henry A., assignor to Compressed Paper Box Company, Bridgeport, Conn. Paper box	327,555	Oct. 6	72	16	33	14
House, Henry A. and Henry A., Jr., Bridgeport, Conn. Wheel for roller-skates	328,119	Oct. 13	799	268	33	151
House, Henry A. and Henry A., Jr., Bridgeport, Conn. Roller-skate wheel	332,072	Dec. 9	2631	690	33	1189
House, J. Carroll, Lowville, N. Y. Burial-case	320,254	June 16	1748	465	31	1282
House, James A., Bridgeport, Conn. Corset-press	316,547	Apr. 28	2158	{ 567 568 }	31	410
House, James A., Bridgeport, Conn. Corset stretching and finishing machine	319,255	May 19	1770	473	31	86
House, James A., Bridgeport, Conn. Apparatus for shaping corsets	318,256	May 19	1770	473	31	86
House, James A., Bridgeport, Conn. Automatic fire-extinguisher	318,743	May 26	2431	651	31	994
House, James A., and C. H. Dimond, Bridgeport, Conn. Automatic damper-regulator	310,943	Jan. 20	1016	274	30	200
House, James A., and C. H. Dimond, Bridgeport, Conn. Sewing-machine for flossing	317,362	May 5	586	151	31	631
House, James A., and C. H. Dimond, Bridgeport, Conn. Fire-extinguisher	318,744	May 26	2432	651	31	994
House, William M. (See Muegge, Carl A., assignor.)						
House, Zoeth, et al. (See Franklin, James C., assignor.)						
Household Sewing Machine Company. (See Anthony, James H., assignor.)						
Houser, Daniel, Stockton, Cal. Harvester	324,697	Aug. 16	1769	{ 487 488 }	32	867

Alphabetical list of patentees—Continued.

Name, residence; and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Houser, Peter. (See McFadden and Houser.)						
Housley, Daniel W., Chicago, Ill. Spring-hinge	320,789	June 23	2500	662	31	1529
Housley, Daniel W., Chicago, Ill. Tilting chair	321,816	July 7	560	146	32	104
Houston, John W. (See Gilson and Houston.)						
Houston, John W., assignor to himself and W. O. Houston, Bellaire, Ohio. Grate	310,514	Jan. 6	444	123	30	87
Houston, Levi, Montgomery Station, Pa. Circular sawing machine	315,502	Apr. 14	726	192	31	136
Houston, Samuel L., Richmond, Ind. Cotton-seed planter	331,198	Nov. 24	2359	638 { 39	33	975
Houston, William O. (See Houston, John W., assignor.)						
Houze, Luc, Meadville, Pa. Glass-furnace	323,937	Aug. 11	720	201	32	666
Horde, Andreas G., Hønefos, Norway. Striking-train for clocks	316,364	Apr. 21	1900	503	31	357
Horde, Andreas G., Hønefos, Norway. Clock striking mechanism	330,896	Nov. 24	1953	529	33	900
Hover, R. Eugene. (See Latulip, Frederick, assignor.)						
Hövet, Rudolph F. H., Hamburg, Germany. Vehicle-wheel	313,209	Mar. 3	250	63	30	823
Hovey, Dana W., Winthrop, Iowa. Cutting apparatus for harvesters	318,745	May 26	2433	652	31	995
Hovey, Edwin S., assignor of one-half to W. H. Ireland, Boston, Mass. Device for connecting the ends of railway-rails	311,002	Jan. 20	1098	300	30	217
How, W. Storer. (See Brewer and How.)						
How, Woodbury S., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth-crown	313,737	Mar. 10	949	246	30	962
How, Woodbury S., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth-crown	313,738	Mar. 10	951	246	30	962
How, Woodbury S., Cincinnati, Ohio, assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Bracket	313,937	Mar. 17	1244	323 { 324	30	1094
How, Woodbury S., Cincinnati, Ohio, assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Adjustable bracket	316,459	Apr. 28	2050	538	31	389
How, Woodbury S., Cincinnati, Ohio, assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Adjustable bracket	316,548	Apr. 28	2159	568	31	410
Howard, Albert, assignor to E. Howard Watch and Clock Company, Boston, Mass. Watchman's time-recorder	319,818	June 9	1156	305	31	1268
Howard, Arthur L., New Haven, Conn. Machine for trimming cartridge-heads	311,324	Jan. 27	1561	426	30	307
Howard, Arthur L., New Haven, assignor to Woodruff, Miller & Co., Mount Carmel, Conn. Die for making carriage-shaft tips	311,430	Jan. 27	1713	466	30	335
Howard, Arthur L., New Haven, assignor to Woodruff, Miller & Co., Mount Carmel, Conn. Carriage-shaft tip	315,787	Apr. 14	1129	296	31	212
Howard, Charles P. (See Howard, James L. and C. P.)						
Howard, Charles T. (See Edmunds and Howard.)						
Howard, Charles T., et al. (See Wright, E. Howard, assignor.)						
Howard, Clarence M., Fredonia, N. Y. Watch-regulator	314,672	Mar. 31	2206	586	30	1238
Howard, Edward W., Montevideo, Minn. Middlings purifier and separator	329,168	Oct. 27	2234	572	33	427
Howard, Elisha H., Providence, R. I. Letter for signs	333,308	Dec. 29	2966	776	33	1555
Howard, Frank M., Cameron, Tex. Insecticide composition	314,531	Mar. 24	2022		30	1177
Howard, Harlan S., Charles City, Iowa. Corn-planter	319,254	June 2	388	103	31	1121
Howard, Harvey. (See Dow and Gorgas, assignors.)						
Howard, Hoy, Mansfield, Ohio. Suspender-end attachment	330,428	Nov. 17	1433	383	33	794
Howard, Hoy, assignor of one-half to J. Ditwiller & Son, Mansfield, Ohio. Buckle	310,588	Jan. 13	555	154	30	112
Howard, James, and H. V. Gibbs, Bedford, county of Bedford, England. Plow	314,673	Mar. 31	2207	596	30	1238
Howard, James, and E. T. Bousfield, Bedford, England. Railway sleeper and chair	333,015	Dec. 22	2556	673	33	1476
Howard, James H., assignor to S. W. Chamberlin, Stoneham, Mass. Heel-burnishing machine	318,903	May 26	2645	701 { 702	31	1033
Howard, James L. and C. P., Hartford, Conn. Water-closet	322,101	July 14	947	246	32	181
Howard, John W., et al. (See Solano, Renaldo, assignor.)						
Howard, Leonard D., St. Johnsbury, Vt. Miter-sawing machine	314,843	Mar. 31	2454	648	30	1284
Howard, Leonard D., St. Johnsbury, Vt. Combined try-square and bevel	324,323	Aug. 11	1233	341	32	764
Howard, Lewis, Watkins, N. Y. Nail-extractor	321,296	June 30	3165	844	31	1658
Howard, Riley H., Brooklyn, N. Y. Oil-burner and oil-burning stove	325,413	Sept. 1	267	66	32	1066
Howard, Robert L., Luton, county of Bedford, England. Wiring for bottle-stoppers	321,607	July 7	271	72	32	52
Howard, Robert L., Luton, county of Bedford, England. Wiring for securing stoppers to bottles	329,169	Oct. 27	2235	579	33	427
Howard, Stanton M., Wheeling, W. Va. Chimney and globe for lamps	317,537	May 12	823	211 { 212	31	681
Howard, Stephen H., assignor to J. I. Wells & Son, Trenton, Tenn. Steam-engine	314,129	Mar. 17	1489	369	30	1070
Howard Watch and Clock Company, E. (See Carr, Rufus B., assignor.)						
Howard Watch and Clock Company, E. (See Howard, Albert, assignor.)						
Howard, William C. (See Thompson, Walter C., assignor.)						
Howard, William C., New York, assignor to J. P. Noyes & Co., Binghamton, N. Y. Button	316,624	Apr. 28	2255	594	31	428
Howarth, Robert, Wolverhampton, county of Stafford, England, assignor to M. Bayliss, E. Jones, W. and S. Bayliss, and W. E. Jones. Nut-lock	321,500	July 7	120	32	32	24
Howe, Charles P., Austin, Texas. Gate	323,684	Aug. 4	398	114	32	597
Howe, Clarence E., Marlborough, Mass. Coin-cabinet	313,592	Mar. 10	756	199	30	927
Howe, Edward, assignor of three-fourths to M. Scholl, Jr., Detroit, Mich. Car-coupling	326,741	Sept. 22	2058	535	32	1414
Howe, Edward P., Northborough, assignor of five-eighths to C. R. Rogers and J. J. Shaw, Plymouth, Mass. Brake for velocipedes	330,026	Nov. 10	819	210	33	665
Howe, Edward P., Northborough, assignor of five-eighths to C. R. Rogers and J. J. Shaw, Plymouth, Mass. Automatic brake for velocipedes	330,027	Nov. 10	820	210	33	665
Howe, Edwin J., assignor to Carter, Sloan & Co., Newark, N. J. Button	320,874	June 23	2607	691	31	1549
Howe, Eugene L., Chicago, Ill. Machinery for feeding drop-presses	315,942	Apr. 14	1340	348	31	249
Howe, Eugene L., Chicago, Ill. Machinery for feeding drop-presses	315,943	Apr. 14	1343	348	31	249
Howe, Eugene L., Chicago, Ill. Link-counting attachment for chain-machines	329,837	Nov. 3	561	142	33	609
Howe, Eugene L., assignor to Ewart Manufacturing Company, Chicago, Ill. Machine for putting together chain-links	317,790	May 12	1151	304 { 305	31	742
Howe, George H., Hoosick Falls, N. Y. Automatic binding-machine	321,438	July 7	30	8, 9	32	9
Howe, George H., assignor to W. A. Wood Mowing and Reaping Machine Company, Hoosick Falls, N. Y. Harvesting-machine	330,330	Nov. 10	1206	323	33	744
Howe, Henry W., Lawrence, Kans. Cartridge-loading board	319,255	June 2	389	103	31	1121
Howe, Henry W., Lawrence, Kans. Cartridge-shell creaser	319,256	June 2	390	104	31	1122
Howe, John B., Danbury, Conn. Modulator for banjos	312,638	Feb. 24	1612	443	30	673
Howe, John B., Danbury, Conn. Banjo	314,295	Mar. 24	1705	453	30	1120
Howe, John C., assignor to M. Bye, Worcester, Mass. Clamp for skates	315,623	Apr. 14	904	237 { 238	31	168
Howe, Orlando B., Fair Haven, Ill. Mechanism for converting motion	333,226	Dec. 29	2857	746 { 747	33	1534
Howe, Solon G., Detroit, Mich. Sample-package wrapper	322,453	July 21	1408	369	32	279

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Howe, Thomas B., Scranton, Pa. Filter-ventilator	325,803	Sept. 8	794	199	32	1168
Howe, Warren B., Chicago, Ill. Paper box	329,502	Nov. 3	120	51	33	541
Howe, Warren B., Chicago, Ill. Applying paraffine and similar substances to paper and straw board	329,743	Nov. 3	429	.....	33	586
Howe, William B. W., Jr., and A. Gärtner, Savannah, Ga. Automatic air-brake	321,971	July 14	771	201	32	148
Howe, William F. (See Goettel and Howe.)						
Howe, William G., Boston, Mass. Feed-bag holder	325,607	Sept. 1	515	129	32	1113
Howell, Allen S. (See Thayer and Howell)						
Howell, Charles P., Covington, Ky. Trunk-lid support	326,038	Sept. 8	1085	276	32	1222
Howell, Frederick W., Buffalo, N. Y. Bucket-elevator	317,791	May 12	1153	303 } 306 }	31	742
Howell, Frederick W., assignor to M. T. Howell, Buffalo, N. Y. Cockle-separator	331,061	Nov. 24	2155	585 } 586 }	33	939
Howell, George W., Covington, Ky. Vehicle-wheel	316,365	Apr. 21	1904	503	31	357
Howell, Henry C., Baton Rouge, La. Cotton-planter	332,152	Dec. 8	1351	350	33	1246
Howell, Henry C., Baton Rouge, La. Corn and pea planter	332,153	Dec. 8	1352	350	33	1247
Howell, Henry M., New York, N. Y. Syringe	315,202	Apr. 7	439	102	31	78
Howell, Jesse M., Greensborough, Ga. Cotton-seed planter	313,938	Mar. 17	1245	334	30	1024
Howell, John A., U. S. Navy. Marine torpedo	311,325	Jan. 27	1563	426 } 427 }	30	207
Howell, John A., U. S. Navy. Apparatus for launching torpedoes	311,326	Jan. 27	1568	427 } 428 }	30	208
Howell, Josiah, McKeesport, Pa. Washing-machine	321,299	June 30	3165	844	31	1658
Howell, Margaret T. (See Howell, Frederick W., assignor.)						
Howell, Martin A. Jr., Chicago, Ill. Manufacture of cutting-tools and tool-blanks	310,260	Jan. 6	158	.....	30	31
Howell, Matthias H., Jersey City, N. J. Spring-motor	313,334	Mar. 3	423	106	30	854
Howell, Silas J., Boston, Mass., assignor to American Ballot Box Association, of Massachusetts. Registering and canceling ballot-box	332,398	Dec. 15	1665	441 } 442 }	33	1313
Howell, William H., Thorold, Ontario, Canada, assignor to W. Wilkeson, Youngstown, N. Y. Pulp-grinder	314,244	Mar. 31	2457	440	30	1284
Howes, Babcock & Ewell. (See Chapman, Horace P., assignor.)						
Howes, D. Willis, Brooklyn, assignor to New York Adjustable Stern Dock Company, New York, N. Y. Cofferdam	326,065	Sept. 29	2395	627	32	1483
Howes & Ewell. (See Creveling, Lewis, assignor.)						
Howes, John, Worcester, Mass. Purifying and aerating apparatus for water-service	322,722	July 21	1766	466 } 467 }	32	337
Howes, William T., White Heath, Ill. Painter's scaffold	323,152	July 28	2268	628	32	455
Howes, Willis H., and J. Jack, Lockport, N. Y. Carpet-lining	315,503	Apr. 14	727	192	31	136
Howland & Co. (See Young, Cornelius, assignor.)						
Howland, George B., Chicago, Ill. Oscillating grain-meter	323,509	Aug. 4	106	49	32	553
Howland, Joshua, Union Springs, N. Y. Shoe-beel	314,130	Mar. 17	1493	389	30	1070
Howlett, A. Ames. (See Dunn, John, assignor.)						
Howze, Arthur R. (See Marshall and Howze.)						
Hoxie, Benjamin W., assignor to O. H. Jones, Hartford, Conn. Valve	311,833	Feb. 3	480	131	30	439
Hoxie, Herbert M., St. Louis, Mo. Tamping-tool	324,998	Aug. 25	2163	598	32	950
Hoyer, Charles A. (See Reuleaux, Josef, assignor.)						
Hoyt, John W. (See Cody, Elmore D., assignor.)						
Hoyt Brothers & Co. (See Hoyt, Joseph M. and W. G., assignors.)						
Hoyt, Charles N., Haverhill, Mass. Turned boot or shoe	311,003	Jan. 20	1069	300	30	217
Hoyt, Emily C. (See Hoyt, James T., assignor.)						
Hoyt, Frederick J., assignor, by mesne assignments, to Crescent Combination Pavement Company, Grand Rapids, Mich. Paving-block for streets	312,639	Feb. 24	1613	443	30	673
Hoyt, Frederick J., and A. M. Nichols, Grand Rapids, Mich. Sealing-wax lamp and holder	322,539	July 21	1523	401	32	223
Hoyt, Friend W., Birmingham, Conn. Filing-cabinet	324,324	Aug. 11	1256	341	32	764
Hoyt, James P., Newtown, Conn., and F. S. Bartram, New York, N. Y. Fountain-pen	325,211	Aug. 25	2456	676	32	1702
Hoyt, James T., assignor to E. C. Hoyt, New York, N. Y. Cabinet for sanitary toilet-paper	333,073	Dec. 22	2632	690	33	1489
Hoyt, James T., assignor to E. C. Hoyt, New York, N. Y. Package of sanitary or toilet-paper	333,074	Dec. 22	2634	690	33	1439
Hoyt, Joel S., Syracuse, N. Y. Potato digger and gatherer	317,792	May 12	1153	306	31	743
Hoyt, John B., Chippewa Falls, Wis. Portable boat-boom	318,405	Oct. 13	1178	305	33	223
Hoyt, Jonathan J., assignor to E. F. Richardson, Chelmsford, Mass. Case for preserving food	313,076	Mar. 3	50	13	30	787
Hoyt, Joseph M. and W. G., assignors to Hoyt Brothers & Co., Lynn, Mass. Bottle-washer	329,360	Oct. 27	2566	662	33	488
Hoyt, Lewis S., Boston, Mass. Flexible stopple for bottles	311,431	Jan. 27	1714	466	30	335
Hoyt, Lewis S., Boston, Mass. Stopples for bottles	311,234	Feb. 3	480	131	30	439
Hoyt, Lewis S., Boston, Mass. Bottle	316,400	Apr. 28	2073	538	31	369
Hoyt, Lewis S., Boston, Mass. Leveling and supporting implement	332,715	Dec. 22	2149	567	33	1400
Hoyt, Lewis S., Boston, assignor to D. E. Devoe, Brookline, and F. F. Smalley, Chelsea, Mass. Bottle stopper	314,025	Mar. 17	1348	351	31	1045
Hoyt, Lewis S., Boston, assignor to D. E. Devoe, Brookline, and F. F. Smalley, Chelsea, Mass. Bottle stopper	314,179	Mar. 17	1549	406	30	1080
Hoyt, Lewis S., assignor to A. G. Smalley, Boston, Mass. Stopples-receptacle	315,504	Apr. 14	728	193	31	136
Hoyt, Lewis S., assignor of one-half to J. M. Culver, Boston, Mass. Rubber-covered compound	322,936	July 28	2071	551	32	400
Hoyt, Lucius H., Danbury, Conn. Apparatus for curling and setting hat-brims	314,131	Mar. 17	1492	389	30	1071
Hoyt, Montaville, Jamaica, N. Y. Tire-beater	323,666	Aug. 4	400	115	32	598
Hoyt, William G. (See Hoyt, Joseph M. and W. G.)						
Hubbard, Alva, Baltimore, Md. Construction of houses	316,895	Apr. 28	2660	693	31	502
Hubbard, Arthur O., St. Cloud, Minn. Adjustable camp chair or hammock	327,441	Sept. 29	2778	773	32	1588
Hubbard, Charles W., Pittsburg, Pa. Die for making ax-bit blanks	314,674	Mar. 31	2508	566	30	1238
Hubbard, Fred W., assignor to Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio. Wheeled scraper	332,531	Dec. 15	1873	490	33	1344
Hubbard, Fred W., assignor to Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio. Wheeled scraper	332,532	Dec. 15	1874	490	33	1344
Hubbard, Fred W., assignor to Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio. Wheeled scraper	332,533	Dec. 15	1875	491	33	1315
Hubbard, Frederick H., Brooklyn, N. Y. Volatilizer	317,538	May 12	825	212	31	631
Hubbard, George M., New Haven, Conn. Coupling for vehicle-springs	320,175	June 10	1598	422	31	1754
Hubbard, George M., assignor to W. & E. T. Fitch, New Haven, Conn. Bridle-bit	332,500	Dec. 8	1406	362	33	1256
Hubbard, Henry W., Aurora, Ill. Turning-tool	325,685	Aug. 25	2201	631	32	672
Hubbard, John M., Lake Village, N. H. Advertiser and card-holder	319,730	June 9	1018	289	31	1245
Hubbard, John U., Oakland, Me. Die for forming ax-pole clips	314,845	Mar. 31	2457	640	30	1284
Hubbard, Moses G., Norristown, Pa. Car-truck	312,720	Feb. 24	1720	473	30	692

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Hubbard, Moses G., Norristown, Pa. Car-truck	326,652	Sept. 22	1903	500	32	1318
Hubbard, Moses G., Norristown, Pa. Car-truck	326,653	Sept. 22	1906	501	32	1368
Hubbard, Moses G., Norristown, Pa. Car-truck	326,654	Sept. 22	1908	501	32	1388
Hubbard, Moses G., Jr., Norristown, Pa. Grain-binder	332,534	Dec. 15	1876	491	33	1345
Hubbard, William, Odon, Ind. Chimney-protector	331,710	Dec. 1	698	172	33	1121
Hubbard, William W., assignor to C. B. Bradley, Manchester, N. H. Machine for reducing leather to a uniform thickness	312,272	Feb. 17	1106	306	30	569
Hubbell, Charles H. (See Watson and Hubbell.)						
Hubbell, Charles J., Washington, D. C. Apparatus for protecting structures from lightning	329,833	Nov. 3	555	141	33	608
Hubbell, George W., assignor of one-half to Wallace & Sons, Ansonia, Conn. Hanging-lamp fixture	323,677	Aug. 4	401	115	32	593
Hubbell, Joseph H., Dayton, Ohio. Hydraulic pump	331,711	Dec. 1	609	172	33	1122
Hubbell, Myron R., Wolcott, Vt. Plow	329,834	Nov. 3	557	142	33	608
Hubbell, Napoleon C., assignor to L. F. Heublein, Hartford, Conn. Hardening steel	310,433	Jan. 6	350		30	68
Hubbell, Thaddeus P., Mount Vernon, Ill. Nose-guard for spectacles	319,977	June 10	1386	364	31	1316
Hubbs, Benjamin F. and W. Y. Bygate, Canton, Ohio. Chair	321,697	July 7	669	173	32	122
Hubbs, Joseph G., Perrysville, Ohio. Bee hive	315,505	Apr. 14	729	193	31	136
Hubel, Fred A. (See Taylor, Harrison H., assignor.)						
Hubel, Frederick A. (See Reinhold, Frank J., assignor.)						
Hubel, Frederick A. and F. Reinhold, Detroit, Mich.; said Reinhold assignor to said Hubel. Machine for greasing capsule-mold pins	311,659	Feb. 3	263	73	30	398
Hubel, Frederick A. and F. J. Reinhold, Detroit, Mich.; said Reinhold assignor to said Hubel. Capsule-machining	311,635	Feb. 3	481	131	30	439
Hubel, Frederick A. and F. Reinhold, Detroit, Mich.; said Reinhold assignor to said Hubel. Device for stirring melted gelatine for making capsules	316,696	Apr. 28	2661	693	31	502
Huber, Ber hold, Taunton, Mass. Sheet-delivering apparatus for printing-presses	311,432	Jan. 27	1715	467	30	335
Huber, Edward. (See Barnhart and Huber.)						
Huber, Edward, Marion, Ohio. Grain-separator	320,356	June 16	1927	508	31	1412
Huber, Edward, Marion, Ohio. Drive-chain	321,661	June 30	3246	866	31	1674
Huber, Edward, and H. M. Barnhart, Marion, Ohio. Unloading gravel-cars	315,410	Apr. 7	566	171	31	105
Huber, Edward, and H. M. Barnhart, Marion, Ohio. Device for unloading gravel-cars	316,732	Apr. 28	2454	651	31	471
Huber, Edward, and G. W. King, Marion, Ohio. Reversing-gear for engines	330,980	Nov. 24	2064	569	33	921
Huber, Emil, assignor to E. Bayot, New York, N. Y. Por'o caustique for testing metals	321,581	Aug. 4	257	75	32	569
Huber, Henry, Crestline, Ohio. Portable ladder for gathering fruit	310,424	Jan. 6	351	96	30	68
Huber, Jacob, Toledo, Ohio, assignor to C. P. and W. F. Crosby, Chicago, Ill. Wrench	320,357	June 16	1928	508	31	1413
Huber, John P. (See Schmitt and Huber.)						
Huber, John Y., et al. (See Megee, Andrew J., assignor.)						
Huber, Louis C., Huber, Ky. Car-brake	310,435	Jan. 6	353	96	30	68
Huber, Louis C., Huber, Ky. Mail-bag	323,734	Oct. 13	666	181	33	131
Huber, P. ter, New York, N. Y. Fire-escape	320,648	Nov. 3	300	76	33	561
Huber, Phillip J., et al. (See Grottenhaler, Joseph, assignor.)						
Huber, Samuel, Danville, Pa. Potato-digger	313,670	Mar. 10	837	223	30	947
Huber, William B., Fremont, Nebr. Washing-machine	323,336	July 28	2640	703	32	503
Huber, William B., assignor of one-half to C. O. Lobeck, Fremont, Nebr. Machine for edging sheet metal	316,461	Apr. 28	2055	538	31	389
Haleit, H. Gengembre, New York, N. Y. Swinging cranes	314,675	Mar. 31	979	567	30	1238
Halsort, H. Gengembre, New York, N. Y. Step-bearing for machinery	314,676	Mar. 31	2210	587	30	1238
Habka, Anton. (See Habka, Frank and A.)						
Habka, Frank and A., Chicago, Ill. Window-screen	318,988	June 2	77	20	31	1062
Hackins, Daniel J., assignor to J. Annin, Brooklyn, N. Y. Wheelbarrow	331,712	Dec. 1	702	173	33	1122
Haddleston, Samuel E. (See Leslie, Benjamin J., assignor.)						
Hudson, Benjamin F., Alvarado, Tex. Apparatus for emptying barrels or other receptacles containing liquids	313,677	Mar. 3	50	13, 14	30	787
Hudson, Charles E., Leominster, Mass. Apple-paring machine	310,635	June 9	1276	336	31	1289
Hudson, Gilbert L., assignor to B. J. Fluemholt, Romeo, Mich. Corn-planter	313,362	June 30	3217	867	31	1674
Hudson, Harry, and M. Tobey, Salinas, Cal. Machine for breaking wheat	315,143	Apr. 7	211	52	31	39
Hudson, Harry H., Flint, Mich. Reversing-gear	314,380	Mar. 24	1813	452	30	1141
Hudson, Henry A., Lyndhurst, N. J. Manufacture of beton	324,112	Aug. 11	552		32	708
Hudson, James, Birmingham, county of Warwick, England. Tube	319,721	June 9	1019	239	31	1245
Hudson, Joseph N., Boonesborough, Mo. Fence	323,120	Oct. 13	860	268	33	151
Hudson, Samuel W., Hudsonale, Pa. Railway-track	310,281	Jan. 6	159	45	30	31
Hudson, Wilford C. and J. Barry; said Barry assignor of one-half to J. C. Entrekin, Chillicothe, Ohio. Button-hole cutter	316,366	Apr. 21	1904	504	31	357
Huhn, Conrad, assignor of one-half to J. Schake, Rochester, N. Y. Vehicle-axle	316,974	May 5	58	15	31	533
Huff, Elias. (See Lewis and Huff.)						
Huff, Henry D., et al. (See Thompson, George H., assignor.)						
Huff, Mark S., assignor of one-half to P. B. Barry, Sutton, W. Va. Rotary engine	324,698	Aug. 18	1771	468	32	867
Huffaker, Miles W., assignor of one-half to C. H. Flournoy, Knoxville, Tenn. Fence-post	328,946	Oct. 27	1905	498	33	369
Huffer, Abraham, Hagerstown, Md. Hot-water-circulating washing-machine	314,466	Mar. 31	2458	649	30	1284
Huffman, Charles W., Richmond, Ohio. Sand-arrestor for driven wells	318,232	Oct. 13	927	241	31	171
Huffman, George M., Zanesville, Ohio. Brake-lever	314,570	Mar. 31	2087	557	30	1216
Hug, John, Ripley, assignor of one-half to F. J. Houghton, Chautauqua County, N. Y. Saw-tooth jointer and gage	326,907	Sept. 22	2294	600	32	1456
Hug, Rudolph R., Cincinnati, Ohio. Brooch or breastpin	323,688	Aug. 4	402	115	32	598
Huggins, John C., Racine, Wis. Wagon	313,335	Mar. 3	423	106	30	854
Hughes, Charles, New York, N. Y. Automatic fire-lighter	319,722	June 9	1020	270	31	1245
Hughes, Charles D., Brooklyn, N. Y. Door-bell	321,501	July 7	122	32	31	24
Hughes, James, Auburn, N. Y. Automatic drill	315,411	Apr. 7	567	151	31	106
Hughes, James L., assignor of one-fourth to I. N. Van Housen and R. W. Cunningham, Lawrence, Kans. Adjustable scaffold-support	319,723	June 9	1021	270	31	1245
Hughes, Jas. or S., Dayton, Ohio. Tree-protector and lawn ornament	313,424	Mar. 3	577	141	30	672
Hughes, Jacob B., Greensburg, Ind. Corn-shock compressor	333,234	Dec. 29	2967	776	33	1555
Hughes, John A. and C. S. Menzel, Philadelphia, Pa. Ventilating-cap	322,377	July 14	1301	339	32	247
Hughes, John W., Oskaloosa, Iowa. Car-coupling	317,363	May 5	578	151	31	631
Hughes, Leo, Marshall, Mo. Electric belt	325,066	Aug. 25	2293	631	32	972
Hughes, Marshall J., Jersey City, N. J. Quoin and slide-stick	324,659	Aug. 13	1771	459	32	867
Hughes, Marshall J., Jersey City, N. J. Inkstand	326,118	Sept. 15	1189	304	32	1246

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Hughes & Müller. (See Müller, George, assignor.)						
Hughes, Patrick K., Auburn, N. Y. Vehicle-axle	399,835	Nov. 3	558	142	33	609
Hughes, Robert. (See Fairfield, Clark, and Hughes.)						
Hughes, Robert. (See Morgan, William F., assignor.)						
Hughes, Robert L., et al. (See Schmidt, Theodore, assignor.) (Reissue.)						
Hughes, Samuel R., Benton Harbor, Mich. Car-axle box	398,219	Sept. 15	1338	346	32	1276
Hughes, Samuel R., Benton Harbor, Mich. Feed-water heater	398,587	Oct. 20	1415	368 369	33	273
Huguenin, Thomas A., Charleston, S. C. Composition for curing paving blocks or bricks	313,823	Mar. 10	1064		30	983
Huiskamp, Herman J., Fort Madison, Iowa. Heel-trimming machine	324,844	Aug. 25	1972	541	32	912
Huiskamp, Luke, Keokuk, Iowa. Fence-making machine	390,358	June 16	1930	508 509	31	1413
Hulbert Brothers. (See Hulbert, Orrin L., assignor.)						
Hulbert, Harry E., Santa Rosa, Cal. Budding-knife	324,700	Aug. 18	1772	489	32	868
Hulbert, Thomas H., Minneapolis, Minn. Self-closing hatchway	313,210	Mar. 3	251	63	30	823
Hulbert, Orrin L., assignor to Hulbert Brothers, St. Louis, Mo. Multiple photographic sheet	833,465	Dec. 29	3175	829	33	1590
Hulburd, Harriet A., Perrysburg, Ohio. Scrap-book	330,897	Nov. 24	1954	529	33	900
Hulburt, James H., assignor of one-half to B. Winters, Blanchard, Mich. Drag-saw	312,205	Feb. 10	1022	279	30	545
Hulford, William J., and T. P. Walsh, Lawrence, Mass. Loom-harness	323,421	Aug. 4	49	13	32	533
Hulit, David H. (See Watson and Hulit.)						
Hull, Elizabeth, New York, N. Y. Folding soap-dish	331,062	Nov. 24	2150	586	33	940
Hull, George, et al. (See Briggs, Oscar E., assignor.)						
Hull, Granville H., Lafayette, Ind. Combined spectacles and watch-maker's eyeglass	320,558	June 23	2209	584	31	1473
Hull, Granville H., Lafayette, Ind. Combined spectacles and watchmaker's eyeglass	331,791	Dec. 8	810	206	33	1150
Hull, Henry S., et al. (See Smith, Seth H., assignor.)						
Hull, John B. T., Baltimore, Md. Nut-lock	329,649	Nov. 3	301	77	33	562
Hull, John S., Baltimore, Md. Lubricating oil-can	325,087	Aug. 25	2294	631	32	972
Hull, John S., Baltimore, Md. Soldering-iron heater	328,406	Oct. 13	1179	305	33	223
Hull, Nicholas A., Peru, Ind. Lock	311,898	Feb. 10	589	161	30	465
Hull, Nicholas A., Peru, Ind. Sewing-machine table-top	326,294	Sept. 15	1446	377	32	1397
Hull, Nicholas A., assignor to A. N. Dukas, Peru, Ind. Drawer-case	318,114	May 19	1592	425	31	833
Hull, Richard L., Meriden, Conn., assignor to A. H. White and H. L. Fairbrother, Providence, R. I. Lantern	313,425	Mar. 3	538	142	30	877
Hull, Rufus P., Fonda, Iowa. Machine for cleaning and repairing roller-skates	322,689	Aug. 4	403	115	32	598
Hull, Wolcott A., et al. (See Hoadley, Robert, assignor.)						
Hull, Wolcott A., et al. (See Lyman, Charles H., assignor.)						
Hull, Wolcott A., et al. (See Weber, Theodore A., assignor.)						
Hulme, Thomas, Galveston, Tex. Regenerator for compound engines	310,826	Jan. 13	832	231	30	167
Hulmes, George H., Chartiers, and W. Shope, Millvale, Pa. Graining wood	320,359	June 16	1932		31	1413
Hult, Olof, Karlskrona, Sweden. Hydro-aerostatic ship-log	319,582	June 9	832	221	31	1211
Humel, Gustav. (See Bassemir and Humel.)						
Hummel, William C. B., assignor of two-thirds to R. Switzer and L. A. Christy, Winfield, W. Va. Saw-swage	324,701	Aug. 18	1773	480	32	868
Hummer, Adam, assignor of one-half to M. Youngpeter, San Francisco, Cal. Shank-stiffener for boots or shoes	318,562	May 26	2203	588	31	952
Humphreys, Frank, Lancaster, Pa. Incubator-thermostat	323,075	Dec. 22	2635	691	33	1439
Humphrey, Dudley S., East Townsend, Ohio. Knife for cutting seed-potatoes	329,657	Dec. 15	2056	540	33	1377
Humphrey, Henry P., Lowell, Mass., assignor to Lowell Oiler Company, Nashua, N. H. Can	329,904	Nov. 10	633	166	33	634
Humphrey, John N., et al. (See Scott, Jeremiah F., assignor.)						
Humphreys, James W., Iroquois, Ill. Ditching-plow	321,898	July 7	671	174	32	122
Humphreys, James W., Iroquois, Ill. Ditching-machine	328,407	Oct. 13	1180	305 306	33	223
Humphreys, James W., Iroquois, Ill. Ditching-machine	330,331	Nov. 10	1208	323	33	745
Humphreys, Robert C., et al. (See Robinson, William, assignor.)						
Humphreys, Robert E., Irwin, Pa. Bicycle-saddle	328,682	Oct. 20	1553	404	33	297
Humphreys, Robert E., Irwin, Pa. Spring for velocipede-seats	332,658	Dec. 15	2057	540	33	1378
Humphreys, Thomas. (See Millbourne and Humphreys.)						
Hungate, Jehu H., Denver, Colo. Composition for journal-boxes	310,827	Jan. 13	832		30	167
Hunger, Charles F., et al. (See Mead, Birdsall H., assignor.)						
Hunger, Friedrich, assignor of one-half to S. Schmuck, Cleveland, Ohio. Reclining-chair	325,248	Sept. 1	21	7	32	1018
Hungerford, Edward M., Utica, N. Y. Wrench	329,937	July 28	2072	551	32	400
Hungerford, George, and S. H. Stiles, Genoa, Ill.; said Stiles assignor to said Hungerford. Box for packing butter	313,426	Mar. 3	539	142	30	877
Hunsaker, John E., Vienna, Ill. Book and music clamp	330,402	Nov. 17	1325	352	33	773
Hunt, Alexander E. (See Rollins, Edward K., assignor.)						
Hunt, Benjamin, Neosho Falls, Kans. Combined steper and heat-distributor for oil-stoves	314,334	Mar. 24	1753	467	30	1129
Hunt, Charles E., Wayne, Nebr. Hoof-trimmer	321,029	June 30	2827	752	31	1586
Hunt, Charles E., H. L. Ferris, and N. B. Helm, Harvard, Ill. Hay elevator and carrier	316,462	Apr. 28	2056	539	31	390
Hunt, Charles E., N. B. Helm, and H. L. Ferris, Harvard, Ill. Hay-carrier	316,463	Apr. 28	2057	539	31	390
Hunt, Charles W., West New Brighton, N. Y. Hoisting-machine	320,064	June 16	1498	396	31	1337
Hunt, Charles W., West New Brighton, N. Y. Hoisting machinery	332,893	Dec. 22	2256	595	33	1421
Hunt, Eugene E., Dettaville, Ohio. Gate	318,430	May 19	2010	541	31	909
Hunt, Franklin B., assignor to H. W. Mendenhall, agent, Richmond, Ind. Roller-skate	324,325	Aug. 11	1257	341	32	765
Hunt, Franklin B., assignor to Richmond Sulky Plow Company, Richmond, Ind. Plow	329,454	Nov. 3	32	9	33	511
Hunt, Franklin B., assignor to Richmond Sulky Plow Company, Richmond, Ind. Sulky-plow	329,905	Nov. 10	654	167	33	634
Hunt, Franklin B., assignor to Richmond Sulky Plow Company, Richmond, Ind. Plow	331,063	Nov. 24	2159	526	33	940
Hunt, Frederic R., Leavenworth, Kans. Tubular screw	324,768	Aug. 18	1858	512	32	884
Hunt, George G., Bristol, Ill. Harvester	310,944	Jan. 20	1017	275	30	201
Hunt, George G., Plano, Ill. Grain-binding machine	331,883	Dec. 8	944	244	33	1175
Hunt, George G., Plano, Ill., assignor of one-half to Plano Manufacturing Company, of Illinois. Frame-adjusting mechanism for harvesters	315,624	Apr. 14	906	238	31	168
Hunt, George G., Bristol Station, and G. H. Steward, assignors of three-fourths to Plano Manufacturing Company, Plano, Ill. Grain-binder	318,257	May 19	1772	473 474	31	867
Hunt, George G., Bristol, assignor of one-half to Plano Manufacturing Company, Plano, Ill. Harvester	319,257	June 2	391	104	31	1122
Hunt, George G., Bristol, assignor of one-half to Plano Manufacturing Company, Plano, Ill. Wheel for harvesters	331,971	Dec. 8	1071	278	33	1190
Hunt, Ira J., assignor to M. Hill, Kalamazoo, Mich. Wheel harrow and cultivator	331,399	Dec. 1	203	53	33	1034
Hunt, James E. (See Eitel and Hunt.)						
Hunt, James H., Chicago, Ill. Combined elevator and distributor	331,884	Dec. 8	946	244 245 246	33	1175
Hunt, James R. B., assignor of one-half to O. K. Elkins, North Troy, Vt. Saw-gummer	324,380	Aug. 18	1331	302	32	768

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Hunt, John P., Philadelphia, Pa. Cable railway.....	312,721	Feb. 24	1723	473	30	691
Hunt, Jonathan W., and J. Bressler, Crescent City, Cal. Rule-gage.....	311,584	Feb. 3	169	48	30	380
Hunt, Jonathan W., and J. Bressler, Crescent City, Cal. Pencil and rule pocket.....	318,115	May 19	1583	425	31	833
Hunt, Joshua, assignor of one-half to F. A. Ingerson, Providence, R. I. Carriage-jack.....	322,180	July 14	1055	273	32	200
Hunt, Joshua, Catauaqua, assignor to Baker Lime Company, (limited.), Avondale, Pa. Limekiln.....	330,121	Nov. 10	949	246	33	693
Hunt, Josiah K., Baldwin, Iowa. Washing-machine.....	313,498	Mar. 10	638	166	30	904
Hunt, Kinsey S., North Branch, Mich. Stump-extractor.....	317,458	May 5	722	182	31	653
Hunt, Leander B., assignor of one-third to T. H. Videto, Hyde Park, Mass. Machine for making axes, hatchets, &c.....	314,842	Mar. 31	2453	647	30	1224
Hunt, Napoleon P., et al. (See Genin, John B., assignor.)						
Hunt, Reuben R., Lexington, Ky. Car-coupling.....	323,812	Aug. 4	552	156	32	627
Hunt, Robert W., Troy, N. Y. Feeding-table for rolling-mills.....	310,893	Jan. 20	934	254	30	188
Hunt, Robert W., Troy, N. Y. Feeding attachment for rolling-mills.....	312,640	Feb. 24	1614	443	30	673
Hunt, Robert W., and M. M. Suppes, Troy, N. Y.; said Suppes assignor of one-sixth to said Hunt. Automatic feeding-table for rolling-mills.....	311,899	Feb. 10	590	161	30	466
Hunt, Robert W., and M. M. Suppes, Troy, N. Y.; said Suppes assignor of one-sixth to said Hunt. Feeding mechanism for rolling-mills.....	323,510	Aug. 4	167	49	32	553
Hunt, Willis M., Glen Gardner, N. J. Forming packages of paper bags.....	328,888	Oct. 20	1813	472	33	346
Huntbatch, Thomas, Geneva, Iowa. Paint or whitewash brush.....	327,947	Oct. 6	571	148	33	103
Hunter, Christopher C., Concordia, Kans. Cultivator.....	331,885	Dec. 8	951	246	33	1176
Hunter, David, et al. (See Spier, Alexander D., assignor.)						
Hunter, David, Troon, county of Ayr, assignor of eighteen-twentieths to A. D. Spier and A. S. Brown, Glasgow, Scotland. Apparatus for cleaning the sides and bottoms of ships.....	318,904	May 26	2648	702	31	1033
Hunter, Freeman S., Fort Ritner, Ind. Street-car heater.....	310,258	June 2	393	104	31	1122
Hunter, George, Elgin, Ill., assignor, by mesne assignments, to R. E. Robbins, Boston, Mass., and T. M. Avery, Chicago, Ill., trustees. Stem-winding and band-setting attachment for watches.....	312,856	Feb. 24	1907	523	30	725
Hunter, George, and F. Leman, Elgin, Ill. Machine for polishing pinions.....	312,855	Feb. 24	1901	521	30	724
Hunter, George D., Terre Haute, assignor of two-thirds to T. C. Van Nuys and M. C. Hunter, Bloomington, Ind. Spark-arrester.....	312,722	Feb. 24	1724	473	30	693
Hunter, George D., assignor of four-sixths to T. C. Van Nuys and M. C. Hunter, Terre Haute, Ind. Spark-extinguisher.....	330,875	June 23	2607	691	31	1549
Hunter, George W. (See Shaffer, Adams, and Hunter.)						
Hunter, Hiram A., Topeka, Kans. Tramway-switch.....	333,076	Dec. 22	2636	691	33	1489
Hunter, James, Camden, N. J. Explosive projectile.....	325,008	Sept. 1	516	129	32	1113
Hunter, James, Pittsburg, Pa. Gas-conductor.....	315,788	Apr. 14	1130	296	31	212
Hunter, James, assignor of one-half to W. D. Hartup, Pittsburg, Pa. Gas-regulator.....	310,625	Apr. 28	9357	504	31	428
Hunter, John, Kingston, Ontario, Canada. Drilling apparatus.....	325,414	Sept. 1	969	66	32	1066
Hunter, John E., Mechanicsburg, Ohio. Barrel-truck.....	322,923	July 21	1902	505	32	362
Hunter, Joseph H., Adair, Ill. Hand water-pumping mill.....	321,972	July 14	772	201	32	148
Hunter, Morton C., et al. (See Hunter, George D., assignor.)						
Hunter, Nathaniel W., Des Moines, Iowa. Coupling device for harness-strap.....	318,116	May 19	1594	426	31	833
Hunter, Robert, assignor of one-fourth to T. Davis, Detroit, Mich. Car-axle box.....	318,187	May 19	1682	451	31	850
Hunter, Robert G., Palatka, Fla. Pocket-knife.....	328,466	Dec. 29	3176	829	33	1500
Hunter, Rudolph M., Philadelphia, Pa. Salt-grainer.....	312,563	Feb. 17	1520	414	30	646
Hunter, Samuel. (See Johnston and Hunter.)						
Hunter, T. F., et al. (See Green, John J., assignor.)						
Hunter, William, San Francisco, Cal. Draft-regulator.....	321,502	July 7	123	32	32	24
Hunter, William H., et al. (See Matteson, Eugene R., assignor.)						
Hunter, William H., et al. (See Matteson and Hutchins, assignors.)						
Hunter, William H., Farnhamville, Iowa. Cultivator.....	333,327	Dec. 29	2858	747	33	1535
Huntington, Charles M., East Randolph, N. Y. Friction-clutch.....	318,905	May 26	2650	702	31	1033
Huntington, Charles P. (See Perrin, Thomas J., assignor.)						
Huntington, Elton. (See Jessup, John C., assignor.)						
Huntington, Frank A., San Francisco, Cal. Centrifugal crushing-mill.....	318,117	May 19	1595	426	31	833
Huntington, Frank A., San Francisco, Cal. Rock crusher or breaker.....	324,037	Aug. 25	2094	573	32	935
Huntington, Frank A., San Francisco, Cal. Crushing-mill.....	325,804	Sept. 8	765	200	32	1168
Huntington, Lawson G., New York, N. Y. Lamp or lantern.....	319,094	June 2	202	53	31	1085
Huntington, Silas H., West Pittston, Pa. Grate for furnaces.....	326,295	Sept. 15	1448	377	32	1297
Huntington, Thomas S., New York, N. Y., assignor to New Home Sewing Machine Company, Orange, Mass. Mechanical movement.....	316,897	Apr. 28	2662	683	31	502
Huntington, Thomas S., New York, N. Y., assignor to New Home Sewing Machine Company, Orange, Mass. Button-hole attachment for sewing-machines.....	327,169	Sept. 29	2643	688	32	1526
Huntington, William H. (See Tilton, James E., assignor.)						
Huntington, William S., New York, N. Y. Railway-spike.....	328,889	Oct. 20	1814	472	33	346
Huntley, George F. (See Fawcett and Huntley.)						
Huntley, Perry, Bridgeport, Conn. System of communication with divers.....	329,391	Oct. 27	2569	662	33	488
Huntoon, Hazen P., Boston, Mass. Collar and cravat.....	327,687	Oct. 6	253	62	33	44
Hunziker, Emil, Jersey City, N. J. Detachable horseshoe.....	319,906	June 9	1277	336	31	1289
Hurd, Alfred P., assignor to J. L. Mott Iron Works, New York, N. Y. Hot-air engine.....	325,805	Sept. 8	796	200	32	1168
Hurd, Charles S., New York, N. Y. Apparatus for charging blast and other shaft furnaces.....	329,044	Oct. 27	2062	535	33	396
Hurd, Lorenzo D., Wellsville, N. Y. Running-gear for wagons.....	311,503	July 7	124	33	32	26
Hurd, Lorenzo D., Wellsville, assignor of one-third to J. C. Sampeon, Elmira, N. Y. Wagon running-gear.....	318,906	May 26	2650	702	31	1033
Hurford, Oliver P., Oakdale, Nebr. Reel-bolt.....	331,240	Nov. 24	2421	656	33	966
Hurlbut, Daniel N., Chicago, Ill. Driving electrical conductors into conduits.....	321,363	June 30	3248	867	31	1074
Hurlbut, Henry W. (See Vanorman, Oliver, assignor.)						
Hurlbut, James A., assignor of one-half to E. A. White, Boston, Mass. Brake mechanism for elevators.....	326,504	Sept. 15	1701	444	32	1344
Hurley, John A., Erie, Pa. Flue-cleaner.....	329,045	Oct. 27	2066	536	33	397
Hurley, Joseph P., Philadelphia, Pa. Kitchen utensil.....	332,201	Dec. 8	1407	363	33	1257
Hurrie, Joseph, Oneida, N. Y. Thrill-support.....	324,769	Aug. 18	1860	512	32	884
Hursh, John, Orrville, Ohio. Horse for suspending carcasses.....	322,181	July 14	1056	273	32	290
Hurst, H. Priuli, Newport, Ky. Child's copy-book.....	310,515	Jan. 6	446	123	30	87
Hurst, Jakob, and H. Schultz, Syracuse, N. Y. Breech-loading fire-arm.....	312,564	Feb. 17	1521	414	30	647

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Hurst, John M., Coalville, Utah Ter. Carpet-stretcher.....	327,688	Oct. 6	253	63	33	44
Hurst, Shrewsbury D., Versailles, Ky. Tobacco-elevator.....	327,088	Sept. 29	2538	662	32	1507
Hurter, Ferdinand. (See Carey, Gaskell, and Hurter.)						
Hurtu, Auguste J., Paris, France. Sewing-machine.....	315,037	Apr. 7	71	17	31	14
Husbands, José D., Valparaiso, Chili, assignor to American Bell Telephone Company, Boston, Mass. Telephone.....	318,907	May 26	2652	703	31	1034
Huse, Warren D., Laconia, assignor to O. Twombly, Lake Village, N. H., and T. S. Nowell, Boston, Mass. Knitting-machine.....	313,593	Mar. 10	757	200	30	927
Huse, Warren D., W. E. Sheehan, and G. F. Davis, Laconia, N. H.; said Sheehan and Davis assignors to said Huse. Stop-motion mechanism for knitting-machines.....	327,170	Sept. 29	2646	688	32	1526
Huse, Warren D., Laconia, assignor to O. Twombly, Lake Village, N. H., and T. S. Nowell, Boston, Mass. Knitting-machine needle.....	329,006	Nov. 10	655	167	33	634
Huse, Warren D., Laconia, assignor to O. Twombly, Lake Village, N. H., and T. S. Nowell, Boston, Mass. Knitting-machine.....	331,400	Dec. 1	204	53	33	1034
Huse, Warren D., Laconia, assignor to O. Twombly, Lake Village, N. H., and T. S. Nowell, Boston, Mass. Knitting-machine.....	331,401	Dec. 1	205	54	33	1034
Huse, Warren D., Laconia, assignor to O. Twombly, Lake Village, N. H., and T. S. Nowell, Boston, Mass. Knitting-machine.....	331,402	Dec. 1	207	54	33	1035
Huselson, W. S., et al. (See Boyle, Jay C., assignor.)						
Husk, Edward F., Malden, Mo. Sulky-cultivator.....	310,828	Jan. 13	853	231	30	167
Huson, Charles M., South Pueblo, Colo. Cable tramway.....	312,273	Feb. 17	1108	306 307	30	569
Huson, Charles M., South Pueblo, Colo. Device for loading and unloading tramways.....	312,274	Feb. 17	1117	307 308	30	571
Huson, Charles M., Denver, Colo. Wheel for belts or cables and means for driving them.....	312,275	Feb. 17	1124	308 309	30	573
Huson, Cornelius W., assignor of one-half to W. F. Junkins, Weaverville, Cal. Rock-crusher.....	330,559	June 23	2210	584	31	1473
Huss, Charles, New York, N. Y. Refrigerator ice-holder.....	321,364	June 30	3251	868	31	1675
Hussey, Charles A., New York, N. Y. Secondary electric clock.....	319,259	June 2	394	104 105	31	1122
Hussey, Charles A., assignor to Hussey Electric Light and Power Company, New York, N. Y. Incandescent electric lamp.....	310,516	Jan. 6	447	123	30	67
Hussey, Charles A., New York, N. Y., assignor of one-half to J. Snyder, Philadelphia, Pa. Electric lighting attachment for gas-fixtures.....	320,065	June 16	1499	306	31	1338
Hussey, Charles L., Sacramento, Cal. Remedy for blackleg.....	332,804	Dec. 22	2257		33	1421
Hussey Electric Light and Power Company. (See Hussey, Charles A., assignor.)						
Hussey, Frank W. (See Hussey, Isaac, assignor.)						
Hussey, Isaac, assignor to himself and F. W. Hussey, Columbus, Ohio. Wash-board.....	330,785	Nov. 17	1805	496	33	665
Hussey, Levi, assignor to G. W. Donaldson, New York, N. Y. Heating exhaust and super-heating live steam. (Reissue.).....	10,632	Aug. 4	668	187 182	32	649
Hussey, Sylvanus, Silver Creek, N. Y. Rock-drill.....	330,489	Nov. 17	1434	383	33	794
Hussey, Sylvanus, Buffalo, N. Y. Rock-drill.....	330,921	Nov. 24	2065	359 560	33	923
Hussey, William J., assignor of one-half to H. A. Owen, Boston, Mass. Milk-can lock.....	326,083	Sept. 8	1149	292	32	1234
Husong, Joseph, Camden, N. J. Ice-velocipede.....	330,786	Nov. 17	1806	487	33	886
Huston, Henry C. (See Ehrman, Samuel, assignor.)						
Huston, James N. (See Wall, Frederick W., assignor.)						
Huston, Robert M., Toronto, Ontario, Canada. Combined wardrobe and bedstead.....	322,938	July 28	2073	552	32	400
Huston, William, Wilmington, Del., assignor to J. C. Gilbert, Brooklyn, N. Y. Perforated tile for furnace-linings.....	317,450	May 5	723	183	31	654
Hutchcraft, R. Bront, Paris, Ky. Seed cleaner and huller.....	322,824	July 21	1903	505	32	362
Hutcherson, John W. (See Hutcherson, Peter and J. W.)						
Hutcherson, Peter and J. W., Sandy Ridge, N. C. Fruit-gatherer.....	324,326	Aug. 11	1258	341	32	765
Hutches, Benjamin F., Jr., Galveston, Tex. Odometer.....	321,385	June 30	3252	868 869	31	1675
Hutches, Benjamin F., Jr., Galveston, Tex. Necktie-fastening.....	323,870	Aug. 4	625	176	32	641
Hutchings, Marvin C., Astoria, Ore. Teating sealed cans.....	314,180	Mar. 17	1549	406	30	1020
Hutchins, Carleton B., Detroit, Mich. Roofing compound.....	323,467	Dec. 29	3177		83	1580
Hutchins, Charles W., assignor to E. C. Barr, Springfield, Mass. Book and music holder.....	319,907	June 9	1278	337	31	1290
Hutchins, George F., assignor to Knowles Loom Works, Worcester, Mass. Friction-clutch pulley.....	320,360	June 16	1933	509	31	1413
Hutchins, George F., assignor to L. J. Knowles & Brother, Worcester, Mass. Warp-beam for looms.....	324,770	Aug. 18	1860	512	32	864
Hutchins, George W., assignor to W. C. Plummer, Newburyport, Mass. Key-ring.....	331,301	Dec. 1	61	15	33	1010
Hutchins, Joseph, Middlebury, Ind. Vehicle-spring.....	325,009	Sept. 1	1517	130	32	1113
Hutchins, Lewis, Corinna, Me. Tensioning and boring machine.....	317,999	May 10	1441	386	31	805
Hutchins, William J. (See Matteson and Hutchins.)						
Hutchins, William J., Joliet, Ill. Wire-fence stay.....	328,890	Oct. 20	1814	473	33	346
Hutchins, William J., Joliet, assignor to W. M. Clow, East Wheatland, Ill. Nail-machine.....	312,996	Feb. 24	2081	567 568	30	756
Hutchinson, A. I. (See Casey, David F., assignor.)						
Hutchinson, Alfred. (See Gray and Hutchinson.)						
Hutchinson, Alfred B. (See Welch, Hutchinson, and Gray.)						
Hutchinson, Arthur H., assignor to I. P. Morris Company, Philadelphia, Pa. Pump.....	312,997	Feb. 24	2084	568	30	757
Hutchinson, Daniel, Lynn, Mass., assignor to American Rein Hook Company, Nashua, N. H. Rein-hook.....	310,589	Jan. 13	555	154	30	112
Hutchinson, Edward, New York, N. Y. Corner-iron for wagon-bodies.....	310,517	Jan. 6	448	124	30	87
Hutchinson, Jesse L., Baltimore, Md. Water-closet.....	330,706	Nov. 17	1703	460	33	847
Hutchinson, Merrill N., New York, N. Y. Elevator.....	333,468	Dec. 29	3178	830	33	1390
Hutchinson, Oswin W. (See Widney, Charles W., assignor.)						
Hutchinson, Seaborn P., Saratoga, Cal. Guiding device for cultivators, &c.....	320,473	June 23	2101	554	31	1453
Hutchinson, William F., Lynn, Mass. Shaft-casing.....	322,540	July 21	1524	402	32	293
Hutchinson, William G., et al. (See Armstrong, George S., assignor.)						
Hutchison, Andrew, Providence, R. I. Discharging tar from hydraulic mains in gas-works.....	312,565	Feb. 17	1523	415	30	647
Hutchison, Andrew C., et al. (See Goodwin, Hiland W., assignor.)						
Hutchison, William, Ottawa, Ontario, Canada. Roller-mill feed mechanism.....	321,030	June 30	2688	752	31	1586
Hutchison, William, Ottawa, Ontario, Canada. Oatmeal and grain reduction mill.....	331,403	Dec. 1	208	54, 55	33	1035
Huth, Alfred H., 17 Kensington Square, county of Middlesex, England. Manufacture of compounds of india-rubber, gutta-percha, &c.....	326,280	Sept. 15	1338		32	1276
Huth, John, Canton, Ohio. Sash-fastener.....	323,228	Dec. 29	2800	747	83	1585
Huth, John, assignor of one-half to F. J. Heingartner, Canton, Ohio. Sash-fastener.....	319,414	June 2	584	159	31	1159
Huther, John C., Rochester, N. Y. Plastering-trowel.....	316,464	Apr. 28	2059	539	31	390

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Page.
Hutson, James M., Harpersville, Miss. Universal planter and cultivator	324,938	Aug. 25	2095	573	32	936
Hutson, William J., Pineville, Ark. Car-coupling	312,353	Feb. 17	1232	339	30	592
Huyck, Francis C., et al. (See Hall, Eugene E., assignor.)						
Huyett, Miles C., Detroit, Mich. Combined heater and fan-blower	320,838	Nov. 3	562	143	33	609
Hyatt, Frank A., Sabine Pass, Tex. Jetty	314,940	Mar. 31	2592	686	30	1308
Hyatt, Frank A., Sabine Pass, Tex. Jetty	314,941	Mar. 31	2593	686 687	30	1308
Hyatt, John W. (See Lockwood and Hyatt.)						
Hyatt, John W. (See Lockwood, Hyatt, and Stevens.)						
Hyatt, John W., Newark, N. J. Filtering apparatus	322,102	July 14	949	246	32	181
Hyatt, John W., Newark, N. J. Filter	322,103	July 14	951	247	32	182
Hyatt, John W., Newark, N. J. Apparatus for purifying water	322,104	July 14	955	248	32	182
Hyatt, John W., Newark, N. J. Purifying water	326,221	Sept. 15	1340	346 347	32	1974
Hyatt, John W., Newark, N. J. Combining pyroxyline and its solvents in the manufacture of solid compounds	331,241	Nov. 24	2423	657	33	986
Hyatt, John W., Newark, N. J. Combining pyroxyline and its solvents in the manufacture of solid compounds	331,242	Nov. 24	2424	657	33	987
Hyatt, John W., Newark, N. J. Compounding pyroxyline with its solvents in the manufacture of solid compounds	331,713	Dec. 1	703	174	33	1122
Hyatt, John W., and J. Everding, Newark, N. J., assignors to Celluloid Manufacturing Company, New York, N. Y. Making solid compound from soluble nitro-cellulose	326,119	Sept. 15	1190	304	32	1249
Hyatt, Thaddeus, Brooklyn, N. Y. Illuminating tiling and grating for covering vaults, roofs, &c.	315,412	Apr. 7	589	152	31	106
Hyatt, Thaddeus, Brooklyn, N. Y. Illuminating-tile construction	317,943	May 12	1353	364	31	780
Hyatt, Thaddeus, Brooklyn, N. Y. Illuminating combination-tile	317,944	May 12	1355	364	31	781
Hyatt, Thaddeus, Brooklyn, N. Y. Concrete light for buildings, areas, &c.	317,945	May 12	1358	365	31	781
Hyatt, Thaddeus, New York, N. Y. Illuminating vault cover or grating. (Reissue)	10,626	July 21	1998	528	32	380
Hyatt, Walter P., Matteawan, N. Y. Felt glove or mitten	331,501	Dec. 1	347	94	33	1060
Hyatt, Walter P., Matteawan, N. Y., assignor to New York Felting Company. Machine for hardening seamless felt boots, shoes, &c.	332,650	Dec. 15	2057	540	33	1378
Hyatt, William F., Brooklyn, N. Y. Match-box	327,689	Oct. 6	254	63	33	44
Hyde, Albert M. (See Steele, Ransom, assignor.)						
Hyde, Alfred T., Oil City, Pa. Artesian-well rig	331,714	Dec. 1	704	174	33	1122
Hyde, Andrew, Hatfield, Mass. Head of stringed musical instruments	310,590	Jan. 13	556	155	30	112
Hyde, Andrew, Hatfield, Mass. Lock mechanism for concealed-hammer guns	315,413	Apr. 7	594	152	31	106
Hyde, Andrew, Hatfield, Mass. Fire-arm	326,986	Sept. 29	2397	627	32	1483
Hyde, Elwin R., Springfield, and E. Valentine, Florence, Mass.; said Valentine assignor to said Hyde. Knife-grinding machine	310,861	Jan. 13	892	241	30	174
Hyde, Gustavus A., Sr., Cleveland, Ohio, and Gustavus A. Hyde, Jr., East Saginaw, Mich. Gas-pressure regulator. (Reissue)	10,656	Nov. 3	608	156	33	618
Hyde, Ira L., Claremont, Va. Book-support	314,181	Mar. 17	1550	406	30	1081
Hyde, James C., assignor to West Haven Buckle Company, West Haven, Conn. Garment-fastening	315,944	Apr. 14	1345	349	31	249
Hyde, Jonathan L. (See Chinnoek, Charles and E. E., assignors.)						
Hyde, Lewis W. (See Place, Oscar, assignor.)						
Hyde, Lewis W., Brooklyn, and A. H. Seaman, New York, N. Y. Flier for printing-machines	321,608	July 7	271	72	32	52
Hyde, Lewis W., Brooklyn, and A. H. Seaman, New York, N. Y. Sheet-flier for printing-machines	324,939	Aug. 25	2006	573	32	936
Hyde, Theophilus R., Jr., assignor to Scovill Manufacturing Company, Waterbury, Conn. Curtain-bar bracket	319,908	June 9	1279	337	31	1290
Hyde, Theophilus R., Jr., assignor to Scovill Manufacturing Company, Waterbury, Conn. Button	327,442	Sept. 29	2999	783	32	1589
Hydraulic Elevator Company. (See Bassett, Norman C., assignor.)						
Hydraulic Elevator Company. (See Scofield, Levi T., assignor.)						
Hydraulic Press Brick Company. (See Graves, Willis N., assignor.)						
Hydraulic Salt Forcing Company. (See Peters, John, assignor.)						
Hyland, William, New Haven, Conn. Decorating glass	313,671	Mar. 10	858		30	947
Hyland, William, New Haven, Conn. Decorating wood and other opaque bodies	83,127	Dec. 29	2719		33	1511
Hymer, James J., Louisville, Ky. Composition of matter for cleaning carpets, &c.	310,829	Jan. 13	854		30	168
Hyndman, John T., assignor to W. G. and R. J. Hyndman, Cincinnati, Ohio. Metallic shingle	326,655	Sept. 22	1911	502	32	1389
Hyndman, Robert J., et al. (See Hyndman, John T., assignor.)						
Hyndman, William G., et al. (See Hyndman, John T., assignor.)						
Hynson, Augustus R., St. Louis, Mo. Safe-edge scoop	330,834	Nov. 17	1886	504	33	877
Ibbotson, Charles, Sheffield, county of York, England. Knife-handle	313,499	Mar. 10	840	166	30	905
Ibbotson, Charles, Sheffield, county of York, England. Knife-handle	317,539	May 12	826	212	31	681
Ibbotson, Edward C., Boston, Mass. Screw-nut	323,422	Aug. 4	50	13	32	532
Iddings, Frank A., Warren, Ohio. Chain-link die	318,724	June 9	1022	270	31	1246
Ide, Albert L., Chicago, Ill. Steam-engine frame	314,381	Mar. 24	1814	483	30	1141
Ide, Albert L., Springfield, Ill. Governor for steam and fluid engines	319,980	June 2	395	105	31	1122
Ide, Albert L., Springfield, Ill. Steam-engine valve	319,261	June 2	397	105	31	1123
Ide, Albert L., Springfield, Ill. Valve-gear	319,819	June 9	1158	306	31	1269
Ide, Albert L., Springfield, Ill. Steam-engine cross-head lubricator	321,726	July 7	418	112	32	78
Ide, Albert L., Springfield, Ill. Steam-engine cross-head	321,727	July 7	420	112	32	79
Ide, Albert L., Springfield, Ill. Valve-indicator	322,723	July 21	1768	467	32	338
Ide, Bruce & Co., George P. (See Ide, James M., assignor.)						
Ide, Ferdinand F., Springfield, Ill. Testing balance-wheels of watches	328,847	Oct. 20	1756	457 458	33	336
Ide, Ferdinand F., Springfield, Ill. Device for testing balance-wheels of watches	328,848	Oct. 20	1758	458 459	33	336
Ide, James M., assignor to G. P. Ide, Bruce & Co., Troy, N. Y. Combined re-enforce and stay for the backs of shirts	313,870	Mar. 17	1142	297 298	30	1006
Ide, Samuel, Medina, N. Y. Latch	313,594	Mar. 10	760	200	30	927
Idol, Barnet V., Idol's Mills, N. C. Turbine water-wheel	324,113	Aug. 11	953	262	32	708
Iffland, George. (See Wolf and Iffland.)						
Iglehart, Joseph J., Columbia, Mo. Lock for worm-fences	313,672	Mar. 10	859	223	30	947
Ihne, William, Medford, Wis. Preserving	328,223	Oct. 13	928		33	177
Ihrig, Mary A., Springfield, Ohio. Screw adapted for ice-creepers	315,293	Apr. 7	430	108	31	78
Ihson, Henry, Allegheny City, Pa. Saw-gummer	324,028	Aug. 11	837	232	32	687
Iler & Co. (See Kuns, Frederick O., assignor.)						
Illingworth, James A., Meriden, Conn. Curtain-fixture	315,789	Apr. 14	1131	296	31	212
Illingworth, John, Newark, N. J. Mold for casting ingots of alternate layers of metal	320,560	June 23	2211	585	31	1474

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Ellingworth, John, Batley, county of York, England. Apparatus for removing vegetable fiber from wool	321,899	July 7	672	{ 174 175 }	{ 32	122
Illinois High Speed Engine Company. (See Hardy, Dexter D., assignor.)						
Illinois Watch Company. (See Taft, Ryland L., assignor.)						
Imhorst, Ferdinand, San Francisco, Cal. Piano-action	332,716	Dec. 22	2151	568	33	1400
Inlay, Charles G., Camden, N. J. Cap for fruit-jars	321,320	June 30	3070	814	31	1640
Inlay, John C., Phillipsburg, N. J. Ratchet-drill	314,449	Mar. 24	1902	508	30	1158
Immel, David W. (See Hartman, Benjamin J., assignor.)						
Immendorf, George H., assignor to H. G. Morris, Philadelphia, Pa. Grain-drier	331,138	Nov. 24	2272	618	33	959
Kmmisch, Moritz, London, England. Electric motor	327,797	Oct. 6	383	{ 99 100 }	{ 33	67
Imperatori, Luigi, Düsseldorf, Prussia, Germany. Extraction of phosphate of soda from slags	324,471	Aug. 18	1450		32	807
Imperial Electric Light Company. (See Perkins, Charles G., assignor.)						
Imperial Manufacturing Company. (See Denny and Griffen, assignors.)						
Indurated Fibre Company. (See Bodge, Joseph G., assignor.)						
Ingalls, Gustavus W. (See Hendrick, Jerome A., assignor.)						
Ingalls, Milo H., North Granville, N. Y. Lifting-jack	319,890	June 9	1159	306	31	1269
Ingalls, Robert S. (See Spyer and Ingalls.)						
Ingalls, Wellington, assignor, by mesne assignments, to himself and A. O. Bailey, Mattawamkeag, Me. Machine for sowing and harrowing seed	328,488	Oct. 20	1278	332	33	248
Ingels, Samuel, Centre, Ind. Flood-fence	315,991	Apr. 14	1406	365	31	261
Ingersoll, George S. (See Frost, William B., assignor.)						
Ingersoll, John H., Edgewood, Iowa. Draft-equalizer	332,805	Dec. 22	2258	595	33	1421
Ingersoll, Luther J., Denver, Colo. Rectal speculum	314,132	Mar. 17	1493	399	30	1071
Ingersoll, Marshall B., Regina, Manitoba, Canada. Fire-escape	320,474	June 23	2102	554	31	1453
Ingersoll Rock Drill Company. (See Waring, John B., assignor.)						
Ingersoll, Simon, Glenbrook, Conn. Support for rock-drills	333,077	Dec. 22	2638	691	33	1490
Ingersoll, Simon, Stamford, assignor of one-half to A. C. Hawes, Noroton, Conn. Gun and projectile for throwing life-lines	331,792	Dec. 8	811	206	33	1150
Ingerson, Frederick A. (See Hunt, Joshua, assignor.)						
Ingham, Joseph, San José, Cal. Gang-plow	322,825	July 21	1904	{ 505 506 }	{ 32	302
Ingham, Joseph S., Academy Corners, Pa. Carpet-stretcher	327,171	Sept. 28	2644	688	32	1526
Inghram, John F., Allegheny, assignor of one-half to J. H. Noble, Hulton, Pa. Seal-lock	315,945	Apr. 14	1346	349	31	249
				{ 11 12 13 }	{ 30	357
Inglodue, Harvey R., Gray, Iowa. Grain-blinder	311,492	Feb. 3	41			
Inglis, Thomas, Leith, Scotland. Machine for scouring and cleaning grain	319,909	June 9	1220	337	31	1290
Inglis, William. (See Hargreaves and Inglis.)						
Ingoldsby, Edward M., New York, N. Y. Elevator	328,311	Oct. 13	1036	268	33	196
Ingraham, Alexander, Minneapolis, Minn. Dust-collector	318,989	June 2	77	20	31	1062
Ingraham Company, E. (See Goodrich, George L., assignor.)						
Ingraham Company, E. (See Ingraham, Edward, assignor.)						
Ingraham Company, E. (See Ingraham and Codling, assignors.)						
Ingraham, Edward, assignor to E. Ingraham Company, Bristol, Conn. Japanning wooden clock-cases	325,543	Sept. 1	441	110	32	1100
Ingraham, Henry C., Woodbridge, N. J. Reduction-mill	323,040	July 28	2225	539	32	427
Ingraham, Irving E., and R. B. Codling, assignors to E. Ingraham Company, Bristol, Conn. Machine for polishing painted, varnished, or japanned surfaces	325,610	Sept. 1	518	130	32	1114
Ingraham, Fanny, administratrix. (See Ingraham, Philo H.)						
Ingraham, Philo H., deceased, (F. Ingraham, administratrix.) Marathon, N. Y. Vehicle-brake	310,518	Jan. 6	449	124	30	87
Ingram, James E., et al. (See Fowler, William R., assignor.)						
Inman, John L., and E. H. Stevens, Putnam, Conn. Picking-shoe for looms	331,886	Dec. 8	954	247	33	1177
Innocent, John. (See Hornsby, Southwell, and Innocent.)						
Insley, William E., and E. H. Dunten, Lapeer, Mich. Cotton hoe and chopper	323,305	Dec. 29	2968	{ 776 777 }	{ 33	1556
International Store Service Company. (See Fisher, Charles, assignor.)						
Ireland, David M. (See Matthews and Ireland.)						
Ireland, David M., Waterbury, Conn. Cnapidor	317,364	May 5	589	152	31	631
Ireland Manufacturing Company. (See Voll, George, assignor.)						
Ireland, Thomas S. (See Voll, George, assignor.)						
Ireland, William H. (See Hovey, Edwin S., assignor.)						
Ireland, William H. (See Morrill, Henry W., assignor.)						
Irish, Byron J., Hague, N. Y. Brake for horse-powers	310,436	Jan. 6	354	97	30	69
Irlbacker, John, Buffalo, N. Y. Drop-valve for steep tube and vats	311,947	Jan. 27	1452	396	30	288
Irlbacker, John, Buffalo, N. Y. Beer-cooler	317,134	May 5	272	68, 69	31	572
Irvine, Albert G., Gloucester City, N. J. Button-fastener	330,588	Nov. 17	1552	416	33	816
Irvine, John B., Sherman, Tex. Wire-stretcher	316,039	Apr. 21	1470	383	31	279
Irvine, Louis C., Oregon, Mo. Indicating-poise for lever-scales	312,657	Feb. 24	1808	523	30	725
Irvine, Richard C., Sacramento, Cal. Biting and driving harness	313,673	Mar. 10	859	{ 223 224 }	{ 30	947
Irvine, William F., Lampasas, Tex. Weighing apparatus	331,640	Dec. 1	600	148	33	1102
Irving, John, New Brighton, N. Y. Folding linings	330,707	Nov. 17	1703	460	33	847
Irwin, Corinna R., et al. (See Barnekov, Kiel V., assignor.)						
Irwin, George L., Allegheny City, assignor to C. F. Wells, Pittsburg, Pa. Apparatus for the manufacture of white lead	318,374	May 19	1937	523	31	897
Irwin, John H. (See Voelker, William L., assignor.)						
Irwin, John H., et al. (See Betts, Lewis F., assignor.)						
Irwin, Joseph I., et al. (See Reeves, Alfred B. and M. T., assignors.)						
Irwin, Joseph I., et al. (See Reeves, Alfred B., M. T. and J. N. D., assignors.)						
Irwin, William J., Reading, Pa. Stove-door knob	311,762	Feb. 3	393	107	30	422
Isaacs, John D., Oakland, Cal. Concrete tube for cable railways	318,623	May 26	2269	605	31	964
Isaacs, John D., Oakland, Cal. Street cable railway	326,120	Sept. 15	1192	304	32	1249
Isbell, Charles W., New York, N. Y. Hydraulic main for gas-works	311,585	Feb. 3	170	48	30	389
Isbell, Charles W., New York, N. Y. Gas-scrubber	328,408	Oct. 13	1122	306	33	294
Isbell, Charles W., New York, N. Y. Apparatus for making illuminating gas	330,122	Nov. 10	953	247	33	693
Isbell, Charles W., and W. H. Taylor, New York, N. Y. Method of and apparatus for generating gas	322,608	July 21	1618	{ 422 423 }	{ 32	310
Isbell, Robert H., New York, N. Y. Button	330,403	Nov. 17	1325	352	33	773
Isenminger, Daniel H., assignor of one-half to S. B. Cooper, Bloomington, Ill. Weather-strip	314,532	Mar. 24	2022	540	30	1177
Issett, William D., Altoona, Pa. Sash-holder	322,182	July 14	1057	274	32	201

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Isherwood, Thomas, Westerly, R. I. Fabric.....	330,787	Nov. 17	1807	487	33	866
Iske, Albert, Lancaster, Pa. Meat and vegetable slicer.....	322,293	July 14	1184	311	32	225
Iske, Anthony, Lancaster, Pa. Acoustic telephone.....	322,294	July 14	1185	311	32	225
Iske, Anthony, Lancaster, Pa. Flower-stand.....	323,690	Aug. 4	404	116	32	598
Iske, Anthony, assignor to F. A. Diffenderfer and J. J. Cochran, Lancaster, Pa. Clothes-drier.....	326,742	Sept. 22	2059	535	32	141#
Isamay, Matthew P., Newcastle-upon-Tyne, England. Door-closer.....	318,258	May 19	1774	474	31	867
Isamay, Matthew P., Newcastle-upon-Tyne, England. Door latch or check.....	320,790	June 23	2501	662	31	1529*
Ismond, Robert E., Chicago, Ill. Stock-car.....	332,060	Dec. 8	1237	323	33	1228
Istel, Isidor C., New York, N. Y. Tip-cutting attachment for cigar-boxes.....	322,105	July 14	956	248	32	182
Ite, Charles. (See Hamaker, John H., assignor.)						
Ittner, Anthony, St. Louis, Mo. Brushing attachment for brick-machines.....	315,414	Apr. 7	596	153	31	107
Iversen, Christian A., Copenhagen, Denmark. Car-starter.....	313,824	Mar. 10	1065	274	30	963
Iverson, Albert H. (See Covington, Philip A., assignor.)						
Ives, Blakeslee & Co. (See Ives, Edward R., assignor.)						
Ives, Charles, Clinton, N. Y. Putty-knife.....	310,682	Jan. 13	671	184	30	133
Ives, Edward B. (See Williams, Ives, and Barnum.)						
Ives, Edward B., New York, N. Y., and C. W. Williams, Cave City, Ky. Railway-tele-graph.....	334,381	Aug. 18	1331	{ 362 363 }	{ 32 32 }	{ 766 766 }
Ives, Edward R., Bridgeport, Conn., assignor to himself and Ives, Blakeslee & Co., New York, N. Y. Toy.....	334,960	Aug. 11	1166	317	32	747
Ives, Franklin B., Chicago, Ill. Rectal speculum.....	312,123	Feb. 10	896	244	30	722
Ives, George H., Martin, Mich. Portable fence.....	315,038	Apr. 7	73	17	31	15
Ives, George H., Martin, Mich. Fence.....	322,939	July 28	2074	552	32	400
Ives, George H., New Haven, Conn. Mixing-machine for bakeries.....	325,933	Sept. 8	942	239	32	1197
Ives, Hallan L., Potadam, N. Y. Milk-can cover.....	323,153	July 28	9269	626	32	455
Ives, Hobart B., New Haven, Conn. Sash-fastening.....	317,540	May 12	827	212	31	681
Ives, William A., New Haven, Conn. Auger-handle.....	315,739	Mar. 10	952	246	30	963
Ivester, John I., Boston, Mass. Flexible extension-ladder.....	312,354	Feb. 17	1233	339	30	583
Ivett, Ephraim, and A. George, Clay Bank, Ohio. Compound for repairing stoves, fire-bricks, &c.....	314,182	Mar. 17	1551		30	1081
Ivins, Ellwood. (See Snyder, Daniel, assignor.)						
Ivins, Ellwood, Philadelphia, Pa., assignor to Patent Button Company, Waterbury, Conn. Button-fastener.....	329,744	Nov. 3	430	109	33	865
Iwan, Henry, and L., Streator, Ill. Tile-ditching hoe.....	320,136	June 16	1569	423	31	1354
Iwan, Louis. (See Iwan, Henry and L.)						
Jack, John. (See Howes and Jack.)						
Jacker, Maximilian, et al. (See Prescott, De Witt C., assignor.)						
Jackman, David K., Poughkeepsie, N. Y. Hinge.....	320,255	June 16	1749	465	31	1382
Jackman, Joseph O., assignor to W. Deering, Chicago, Ill. Cord-holder for grain-binders.....	331,404	Dec. 1	209	55	33	1035
Jackson, Alfred T., Hickory Grove, Ky. Washing-machine.....	321,031	June 30	2828	752	31	1596
Jackson, Alonzo, New York, N. Y. Balanced slide-valve.....	312,858	Feb. 24	1909	523	30	725
Jackson, Andrew, assignor of one-half to J. E. Savage, San Francisco, Cal. Elevated electric railway.....	324,690	Oct. 6	264	63	33	45
Jackson, Byron. (See Bonds, George W., assignor.)						
Jackson, Byron. (See Watkins, James T., assignor.)						
Jackson, Byron, San Francisco, Cal. Governor.....	313,595	Mar. 10	761	200	30	928
Jackson, Byron, San Francisco, Cal. Stacking-machine.....	322,106	July 14	957	{ 248 249 }	{ 32 32 }	{ 183 183 }
Jackson, Charles A., Lawrence, assignor to Jackson Electric Engine Company, Boston, Mass. Electric engine.....	320,137	June 16	1600	{ 423 424 }	{ 31 31 }	{ 1354 1354 }
Jackson, Charles T., assignor to Hecla Electric Light Company, New York, N. Y. Armature for dynamo-electric machines.....	331,502	Dec. 1	347	94	33	1060
Jackson, David, Pawtucket, R. I. Top roll for spinning machinery.....	327,691	Oct. 6	256	64	33	45
Jackson, Edgar B., assignor of one-half to L. B. Jackson, Delaware, Ohio. Wrench.....	320,835	Nov. 17	1867	504	33	877
Jackson, Edward W., Mount Kisco, N. Y. Bridle-bit.....	328,781	Oct. 20	1673	435	33	320
Jackson, Edwin A., New York, N. Y. Grate-front.....	310,437	Jan. 6	354	97	30	69
Jackson Electric Engine Company. (See Jackson, Charles A., assignor.)						
Jackson, Frederick W., assignor to S. C. Mendenhall, Richmond, Ind. Furniture-caster.....	314,247	Mar. 31	2459	649	30	1285
Jackson, Frederick W., assignor to S. C. Mendenhall, Richmond, Ind. Roller-skate.....	329,907	Nov. 10	635	168	33	634
Jackson, George F., Philadelphia, Pa. Car-coupling.....	323,154	July 28	2371	629	32	456
Jackson, H. Ayers, Chicago, Ill. System of measuring for garments.....	327,172	Sept. 29	2649	{ 689 690 }	{ 32 32 }	{ 1527 1527 }
Jackson, Hosmer F., Newport, N. Y. Shaft for vehicles.....	314,296	Mar. 24	1706	454	30	1120
Jackson, James, New York, N. Y. Device for embalming.....	322,541	July 21	1594	402	32	294
Jackson, James E., Lynn, Mass. Side-channeling machine.....	321,032	June 30	2829	752	31	1596
Jackson, James W., Denver, Colo. Roll for roller-mills.....	326,121	Sept. 15	1192	305	32	1949
Jackson, Johnson A., and F. C. Hannaha, Kenosha, Wis. Infant's cradle.....	315,625	Apr. 14	907	238	31	168
Jackson, Joseph R., Pittsburg, Pa. Machine for bending tube-skelp.....	315,626	Apr. 14	908	239	31	169
Jackson, Loren G., assignor of one-half to O. M. Loomis, Woodman, Wis. Potato-digger.....	330,696	Nov. 24	1955	529	33	900
Jackson, Louis B. (See Jackson, Edgar B., assignor.)						
Jackson, Lydia N., New York, N. Y. Sewer-gas excluder.....	321,504	July 7	126	33	32	95
Jackson, Oswald, Carrollton, Ill. Wire-fence machine.....	322,423	Aug. 4	51	{ 13, 14 15 }	{ 32 32 }	{ 532 532 }
Jackson, Peter H., San Francisco, Cal. Illuminating basements.....	314,026	Mar. 17	1351	{ 351 352 }	{ 30 30 }	{ 1045 1045 }
Jackson, Peter H., San Francisco, Cal. Floor or area covering.....	314,677	Mar. 31	2211	587	30	1238
Jackson, Peter H., San Francisco, Cal. Laying artificial-stone or concrete arches.....	317,793	May 12	1157	306	31	743
Jackson, Peter H., San Francisco, Cal. Floor and sidewalk construction.....	320,066	June 16	1500	{ 396 397 398 }	{ 31 31 }	{ 1338 1338 1338 }
Jackson, Peter H., San Francisco, Cal. Cutting and employing wooden beams and gird-ers.....	323,424	Aug. 4	52	14	32	532
Jackson, Philip, Plainfield, N. J. Printing-machine.....	322,609	July 21	1622	429	32	311
Jackson, Samuel W., Chicago, Ill. Stove or furnace regulating device.....	322,610	July 21	1623	429	32	311
Jackson, Samuel W., Chicago, Ill. Cable-railway grip-car.....	329,170	Oct. 27	2235	579	33	427
Jackson, Timothy W. (See Johnson, Horace, assignor.)						
Jackson, Walter M., Providence, R. I. Gas-burner.....	310,945	Jan. 20	1018	275	30	201
Jackson, Walter M., Providence, R. I. Gas-stove.....	310,946	Jan. 20	1019	276	30	201
Jackson, Walter M., Providence, R. I. Gas-stove.....	310,947	Jan. 20	1020	{ 276 277 }	{ 30 30 }	{ 201 201 }
Jackson, Walter M., Providence, R. I. Producing heat in portable stoves.....	310,948	Jan. 20	1023	277	30	202
Jackson, Walter M., Providence, R. I. Gas-regulating burner.....	316,626	Apr. 28	2259	594	31	429
Jackson, William, assignor to Specialty Manufacturing Company, (limited,) Allegheny, Pa. Balanced stop-valve.....	329,650	Nov. 3	302	77	33	562

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Jackson, William A., and W. R. Cole, Detroit, Mich., assignors to Western Electric Company, Chicago, Ill. Telephone system	310,292	Jan. 6	160	45	30	32
Jackson, William A., and J. C. Chambers, assignors to G. H. Lothrop, trustee, Detroit, Mich. Apparatus for suppressing induction disturbances	322,724	July 21	1770	467	32	338
Jackson, William A., and J. C. Chambers, assignors to G. H. Lothrop, trustee, Detroit, Mich. Neutralizing-coil	322,725	July 21	1771	467	32	338
Jackson, William A., and J. C. Chambers, assignors to G. H. Lothrop, trustee, Detroit, Mich. Suppressing induction	322,726	July 21	1772	468	32	338
Jackson, William A., and J. C. Chambers, assignors to G. H. Lothrop, trustee, Detroit, Mich. Induction-neutralizing coil	322,727	July 21	1773	468	32	338
Jackson, William A., and J. C. Chambers, assignors to G. H. Lothrop, trustee, Detroit, Mich. Neutralizing induction	322,728	July 21	1774	468	32	339
Jackson, William E., <i>et al.</i> (See Bixby, Arthur, assignor.)						
Jackson, William H. (See Morrison, Gardner L., assignor.)						
Jackson, William H. (See Sipperly, William H., assignor.)						
Jackson, William R. P., <i>et al.</i> (See Poage, James H., assignor.)						
Jackson, William T., Pittsburg, Pa. Pipe-joint	317,794	May 12	1158	306	31	743
Jackson, William W., Chicago, Ill. Safety device for elevators	331,405	Dec. 1	210	55	33	1035
Jacob, Frank A. (See Hazelrigg, Jacob, and Hood.)						
Jacob, Frederick, Newark, N. J. Shoe-fastener	312,723	Feb. 24	1725	474	30	693
Jacob, Frederick, Newark, N. J. Shoe-fastener	324,702	Aug. 18	1774	469	32	868
Jacobi, Alexander, St. Clair, Mich. Burglar-alarm	314,450	Mar. 24	1903	508	30	1158
Jacobi, Alexander, St. Clair, Mich. Burglar-alarm	320,660	June 23	2246	690	31	1499
Jacobs, Alexander, Cheboygan, Mich. Saw-tooth-sawing machine	319,262	June 2	398	105	31	1123
Jacobs, Charles A. (See Favor and Jacobs.)						
Jacobs, Charles A., assignor to B. F. Miller and W. W. Bowes, Toledo, Ohio. Steam-engine	317,541	May 12	828	213	31	661
Jacobs, David. (See Hampl and Jacobs.)						
Jacobs, Felix A., H. L., and W. E., Columbus, Ohio. Pulley or wheel	320,475	June 23	2103	554	31	1453
Jacobs, Henry L. (See Jacobs, Felix A., H. L., and W. E.)						
Jacobs, Herman F., Weston, Mass. Cow-tail holder	319,263	June 2	400	106	31	1123
Jacobs, Hero, <i>et al.</i> (See Kittler, Julius W., assignor.)						
Jacobs, J. Eugene. (See Nash, Caleb P., assignor.)						
Jacobs, Joseph, San Francisco, Cal. Wheel-guard for railway-cars	314,580	Mar. 31	2067	557	30	1217
Jacobs, Maurice, Baltimore, Md. Advertising device	317,365	May 5	590	152	31	631
Jacobs, Miron H., Syracuse, N. Y. Hot-air furnace	322,107	July 14	958	249	32	183
Jacobs, Robert W., Rome, assignor to Burrell & Whitman, Little Falls, N. Y. Gang cheese-press	323,337	July 28	2641	703	32	503
Jacobs, Samuel, Hutchinson, Kans. Combined blouse and pantaloons-overalls	315,506	Apr. 14	730	193	31	136
Jacobs, William E. (See Jacobs, Felix A., H. L., and W. E.)						
Jacobs, William E., Columbus, Ohio. Road-scraper	314,322	Mar. 24	1816	483	30	1141
Jacobs, William E., Columbus, Ohio. Axle for vehicles	312,118	May 19	1596	426	31	833
Jacobs, William E., Columbus, Ohio. Road-scraper	325,934	Sept. 8	943	239	32	1197
Jacobsen, James M., assignor of one-half to R. M. Esbeck, Preston, Iowa. Pole and shafts	326,967	Sept. 29	2399	627	32	1453
Jacobsen, Martha, Lyons, Iowa. Adjustable pattern for drafting garments	324,472	Aug. 18	1451	396	32	807
Jacobsen, Niels, and H. P. Jensen, Aarhus, Denmark. Lubricator	315,637	Apr. 14	910	239	31	169
Jacobsen, Niels, and H. P. Jensen, Aarhus, Denmark. Centrifugal creamer	315,628	Apr. 14	910	239	31	169
Jacobsen, John C., Boston, Mass. Curtain for cars	323,224	Oct. 13	929	241	33	177
Jacobus, Charles G., Cedar Grove, N. J., assignor to H. H. Jacobus, Brooklyn, N. Y. Whiffletree-hook	331,715	Dec. 1	706	174	33	1123
Jacobus, Francis B., and W. V. McKinley, Albany, N. Y. Parlor base-ball game	330,788	Nov. 17	1807	487	33	866
Jacobus, Herbert H. (See Jacobus, Charles G., assignor.)						
Jacobs, Rebecca J., Oakland, Cal. Absorbent cowl for the chimneys of hydrocarbon-burners	326,565	Sept. 22	1782	468	32	1367
Jacoby, Frederick. (See Thurstin and Jacoby.)						
Jacoby, John H., New York, N. Y. Roller attachment for skates	324,327	Aug. 11	1259	342	32	765
Jacoby, Tilghman, Allentown, Pa. Tug	311,989	Feb. 10	731	197	30	469
Jacot, C. Henry, Hoboken, N. J. Safety-check for music-boxes	326,743	Sept. 22	2060	536	32	1415
Jacquot, Albert, Wilmington, Del. Harness-saddle	325,088	Aug. 25	2295	631	32	972
Jaeger, Emil, Planen, near Dresden, Saxony, Germany. Baking apparatus	323,229	Dec. 29	2961	742	32	1535
Jaeger, Frederick, Columbus, Ohio. Apparatus for eliminating foreign substances from water for obtaining clear and pure ice	317,366	May 5	591	152	31	632
Jaeger, Gustav L., New York, N. Y. Folding box	317,795	May 12	1160	307	31	743
Jaeger, Gustav L., New York, N. Y. Paper box	324,114	Aug. 11	954	263	32	708
Jaeger, Gustav L., New York, N. Y. Partition for cell-cases	324,909	Aug. 25	2184	598	32	950
Jaeger, Gustav L., New York, N. Y. Paper box	323,535	Dec. 15	1885	492	33	1346
Jaeger, Herman F., Chicago, Ill. Extension-lamp	324,703	Aug. 18	1892	520	32	891
Jaeger, Julius, Rutherford, N. J. Insect-powder ejector	311,004	Jan. 20	1100	301	30	217
Jager, Frank. (See McGuire, William, assignor.)						
James, Benjamin, assignor to W. B. James, Worcester, Mass. Filter	332,610	Dec. 15	1985	520	33	1365
James, Charles C., deceased, (E. C. James administrator,) and C. W. James, Dayton, Ohio. Stock-car	327,820	Oct. 6	479	125	33	85
James, Charles F., Maroa, and F. N. Carder, Lincoln, Ill. Reel for check-row wires	315,790	Apr. 14	1132	297	31	212
James, Charles W. (See James, Charles C. and C. W.)						
James, Christopher R., Jersey City, N. J. Shaft-coupling	315,791	Apr. 14	1133	297	31	213
James, Edwin C., administrator. (See James, Charles C. and C. W.)						
James, Ira, Mattoon, Ill. Apparatus for generating gas	311,493	Feb. 3	45	13	30	357
James, Ira, Mattoon, Ill. Apparatus for manufacturing, using, and furnishing motive power by aid of air and hydrocarbon oils	326,430	Sept. 15	1615	420	32	1328
James, John B., Jr., Riverdale, N. Y. Heel-plate for skates	324,115	Aug. 11	955	263	32	708
James, John E., Dunkirk, N. Y. Hammer for welding locomotive-frames	323,536	Dec. 15	1886	493	33	1346
James, Thomas, Braddock, Pa. Packing	314,848	Mar. 31	2460	650	30	1285
James, Thomas, Jr., Carlyle, Ill. Burglar-alarm	322,225	Oct. 13	930	242	33	177
James, Walter B. (See James, Benjamin, assignor.)						
Jameson, George, Chicago, Ill. Safety-guard and work-holder for edge-molding machines	321,728	July 7	422	112	32	79
Jan Crawl, Selden A., Nashua, N. H. Bicycle	330,123	Nov. 10	955	247	33	604
Jancey, William L. (See Henry, William E., assignor.)						
James, George J. L., Chicago, Ill. Lemon-squeezer	318,746	May 26	2433	652	31	995
Jannus, Frankland, Washington, D. C., assignor to H. B. Smith Machine Company, Smithville, N. J. Bicycle	331,199	Nov. 24	5261	629	33	976
Jansen, Franklin M., Sheldon, Iowa. Harrow	323,782	Oct. 20	1072	435	33	320
Janssen, C. Diedrich, Torrington, Conn. Combined rule, calipers, and level	330,589	Nov. 17	1552	416	33	817
Jansson, Carl F., Manchester, N. H. Rotary engine	313,500	Mar. 10	640	166	30	905

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Jaques, George W., Burton, Ohio. Rail-chair.....	320,791	June 23	2502	663	31	1389
Jaques, William, Royer's Ford, Pa. Stove-door hanger.....	313,740	Mar. 10	954	246	30	963
Jarboe, Walter S., Allegheny City, Pa. Grate for burning gas in fire-places.....	329,172	Oct. 27	2237	580	33	428
Jarboe, Walter S., Allegheny City, assignor to Bailey, Farrell & Co., Pittsburg, Pa. Safety-valve.....	312,724	Feb. 24	1726	474	30	693
Jarboe, Walter S., Allegheny City, assignor to Bailey, Farrell & Co., Pittsburg, Pa. Valve.....	312,725	Feb. 24	1728	475	30	694
Jarmin, George W. (See Pearson and Jarmin.)						
Jarrett, Eliza H. T., Melissa, Tex. Harrow and rake attachment for plows and cultivators.....	329,745	Nov. 3	420	110	33	566
Jarves, Deming, Detroit, Mich. Retort.....	317,135	May 5	274	69	31	573
Jarves, Deming, Detroit, Mich. Gas-tight expansion-joint.....	320,661	June 23	2347	620	31	1499
Jarvis, Edgar J., Toronto, Ontario, Canada. Vermin-trap.....	314,133	Mar. 17	1494	390	30	1071
Jarvis Engineering Company. (See Grant, Joseph A., assignor.)						
Jarvis, J. George, assignor to American Zylonite Company, Adams, Mass. Manufacture of pyroxyline compounds.....	329,313	Oct. 27	2445	.....	33	467
Jarvis, William H., assignor to Wallace & Sons, Ansonia, Conn. Guide for rolling-mills.....	330,708	Nov. 17	1704	460	33	847
Jay, Sidney W., and M. J. Garvey, assignors to H. Wade, Toledo, Ohio. Door stop and holder.....	311,836	Feb. 3	484	132	30	440
Jeaniquet, F. Eugène, assignor of one-half to J. F. Guilloz, Detroit, Mich. Colter-cleaner.....	310,253	Jan. 6	161	45	30	32
Jebb, William T. (See Schuman, John C., assignor.)						
Jebb, William T., Buffalo, N. Y. Manufacturing malt liquors from starch, &c.....	316,367	Apr. 21	1906	504	31	358
Jebb, William T., Buffalo, N. Y. Preparing and treating starch.....	320,361	June 16	1934	.....	31	1413
Jefferies, Ebenezer A. W., Alliance, Ohio. Valve.....	318,000	May 19	1443	{ 386 387 }	31	805
Jefferson, Charles W., Rugby, Tenn. Lawn-tennis-net tightener.....	320,138	June 16	1604	424	31	1355
Jefferson, Cornelius. (See Jefferson, Joseph, M. C., and L.)						
Jefferson, Joseph, M. C., and L., Bradford, county of York, England. Machine for drying fabrics, yarn, &c.....	310,683	Jan. 13	671	{ 184 185 }	30	134
Jefferson, Lazarus. (See Jefferson, Joseph, M. C., and L.)						
Jefferson, Mordecai. (See Jefferson, Joseph, M. C., and L.)						
Jefferson, William E., Nottingham, county of Nottingham, England, assignor of one-half to E. B. Stimpson, Brooklyn, N. Y. Elastic woven fabric.....	314,581	Mar. 31	2069	558	30	1917
Jeffery, Edwin A. and F. M., Jersey City, N. J. Spring bed or bed-bottom.....	332,061	Dec. 8	1239	{ 323 324 }	33	1228
Jeffery, Edwin A. and F. M., Jersey City, N. J. Spring bed or bed-bottom.....	332,069	Dec. 8	1943	{ 324 325 }	33	1228
Jeffery, Frank M. (See Jeffery, Edwin A. and F. M.)						
Jeffery, Thomas B., Chicago, Ill. Velocipede.....	312,473	Feb. 17	1393	325	30	623
Jeffery, Thomas B., Ravenwood, Ill. Bicycle.....	332,128	Dec. 29	2720	714	31	1511
Jeffrey, Henry D., assignor to himself, C. A. Bierce, and F. B. Holbrook, Winona, Minn. Machine for making felles.....	325,841	Sept. 8	837	210	32	1176
Jeffrey, Joseph A. (See Legg, Benjamin A., assignor.)						
Jeffrey, Peter. (See McGovern, John, assignor.)						
Jehle, Philip, assignor to M. and W. H. Nixon, Philadelphia, Pa. Former for paper bags.....	329,173	Oct. 27	2239	520	33	428
Jellist, Stewart A., Philadelphia, Pa. Calipers.....	311,248	Jan. 27	1453	306	30	288
Jenc, Johann, Pola, Austria-Hungary. Apparatus for firing ordnance.....	325,544	Sept. 1	443	110	32	1100
Jenkins, Caldwell C., Philadelphia, Pa. Car-axle box.....	328,312	Oct. 13	1037	268	33	126
Jenkins, David, Evansville, Ind. Automatic hoisting cage or elevator unloader.....	317,136	May 5	275	69, 70	31	574
Jenkins, Edward W., Norristown, Pa. Grain-binder.....	324,771	Aug. 18	1861	{ 512 513 }	32	885
Jenkins, Edward W., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Harvester-binder.....	324,772	Aug. 18	1864	{ 513 514 }	32	885
Jenkins, Frank W., Brooklyn, N. Y. Valve-gear.....	321,111	June 30	2937	779	31	1614
Jenkins, George, et al. (See Collier, Charles W. and W. C., assignors.)						
Jenkins, George K., Jamestown, Ohio. Shoe-dealer's stool and foot-support.....	315,507	Apr. 14	731	194	31	137
Jenkins, George K., Jamestown, Ohio. Holder for small wares.....	327,270	Sept. 29	2771	719	32	1549
Jenkins, James H., Thomasville, Ga. Sliding-gage.....	314,134	Mar. 17	1495	390	30	1071
Jenkins, James T., Clements, Cal. Wedge-cutter.....	318,747	May 26	2434	652	31	995
Jenkins, John, Pilot Grove, Ind. Weeding implement.....	324,389	Aug. 18	1336	363	32	787
Jenkins, John M. (See Nauert, and Jenkins.)						
Jenkins, John M., assignor to Globe File Company, Cincinnati, Ohio. Paper-file.....	325,676	Sept. 8	613	155	32	1136
Jenkins, Nicholas, assignor to Holmes, Booth & Haydens, Waterbury, Conn. Stand-lamp.....	320,476	June 23	2104	555	31	1453
Jenkins, Nicholas, assignor to Holmes, Booth & Haydens, Waterbury, Conn. Lamp-burner.....	322,123	July 14	1058	274	32	900
Jenkins, Samuel H., New York, N. Y. Automatic railway-switch.....	324,773	Aug. 18	1867	514	32	886
Jenkins, Simeon T., assignor of one-half to T. J. McGuire, Baltimore, Md. Knockdown fruit-box.....	318,937	May 26	2689	712	31	1040
Jenkins, William. (See Dingle and Jenkins.) (Reissue.)						
Jenkins, William H., Tazewell Court-House, Va. Wagon-body.....	324,558	Aug. 18	1562	431	32	829
Jenkins, William P., and J. L. Streeter, Muncie, Ind. Live-poultry car. (Reissue.)	10,633	Aug. 4	670	128	32	649
Jenkins, William P., and J. L. Streeter, Muncie, Ind. Poultry-car.....	330,899	Nov. 24	1956	530	33	901
Jenkinson, James, Brooklyn, N. Y. Elevated railway.....	314,247	Mar. 24	1630	431	30	1105
Jenkinson, Richard C., Newark, N. J. Bag and satchel frame spring.....	321,505	July 7	127	34	32	25
Jenks, Charles W., Philadelphia, Pa. Bag or satchel.....	314,678	Mar. 31	2213	584	30	1239
Jenks, Henry F., and W. H. Butman, Pawtucket, R. I. Saw-setting machine.....	328,035	Oct. 13	686	181	33	131
Jenks, James. (See Hart, Thomas J., assignor.)						
Jenks, James, Detroit, Mich. Injector.....	314,533	Mar. 24	2023	540	30	1174
Jenks, Lemuel P., Boston, Mass. Coffee-pot.....	310,204	Jan. 6	59	16	30	14
Jenks, Orrin L., et al. (See Burton, Henry, assignor.)						
Jenks, Stephen A. (See Booth, John, assignor.)						
Jenks, William, Newton, Mass. Sewer-cleaner.....	312,206	Feb. 10	1023	280	30	545
Jenks, William S., et al. (See Burton, Henry, assignor.)						
Jenoe, Charles H., Indianapolis, Ind. Station-indicator.....	311,586	Feb. 3	172	48	30	380
Jenner, Herbert W. T., Washington, D. C. Liquor-flask.....	330,709	Nov. 17	1705	460	33	848
Jenny, Charles D., Indianapolis, Ind. Armature for dynamo-electric machines.....	330,490	Nov. 17	1436	324	33	795
Jerney, Charles D., Indianapolis, Ind. Commutator for dynamo-electric machines.....	332,399	Dec. 15	1688	442	33	1313
Jennings, Abraham G. (See Urbahn, Alwill, assignor.)						
Jennings, Arthur O., Southport, Conn. Alarm-clock.....	329,455	Nov. 3	32	10	33	511
Jennings, Benjamin F. K. (See Cadogan, Thomas C., assignor.)						
Jennings, Daniel, Centreburg, Ohio. Door-check.....	312,839	Feb. 24	1910	524	30	726
Jennings, David, Lyons, N. Y. Chalk-holder.....	331,130	Nov. 24	2274	617	33	960
Jennings, Ernest F. (See Cosgrove and Jennings.)						
Jennings, George H. and S., Palace Road, Lambeth, county of Surrey, and J. Morley, Bethnal Green Road, county of Middlesex, England. Appliance and arrangement for controlling, regulating, and arresting the supply of water for sanitary purposes.....	336,431	Sept. 15	1616	{ 421 422 }	32	1328

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Jennings, George H. and S., Palace Road, Lambeth, county of Surrey, and J. Morley, Bethnal Green Road, county of Middlesex, England. Appliance and arrangement for controlling, regulating, and arresting the supply of water for sanitary purposes, &c.	326,432	Sept. 15	1618	{ 423 423 }	32	1328
Jennings, Gregory, West Cairo, Ohio. Tile-kiln	311,660	Feb. 3	265	73	30	309
Jennings & Griffin Manufacturing Company. (See Hastings, Frank W., assignor.)						
Jennings, Isaac B., assignor of one-half to J. Finkle, McPherson, Kans. Bag-holder	318,824	May 26	2270	606	31	965
Jennings, Linson D. (See Tourgee and Jennings.)						
Jennings, Linson D., <i>et al.</i> (See Tourgee, Albion W., assignor.)						
Jennings, Russell. (See Mears and Jennings.)						
Jennings, Sidney. (See Jennings and Morley.)						
Jennings & Sons, A. G. (See Clarke, Anna B., assignor.)						
Jensen, Carl L., Philadelphia, Pa. Capsule for medicines, wines, &c.	330,491	Nov. 17	1437	384	33	795
Jensen, Hans P. (See Jacobsen and Jensen.)						
Jensen, Jens C., Newark, N. J. Boot or shoe heel	311,005	Jan. 20	1101	301	30	218
Jensen, Ole T., Cresco, Tex. Hame-fastener	313,336	Mar. 3	425	106	30	855
Jensen, William, Victoria, British Columbia. Window-blind-slat holder	316,627	Apr. 28	2260	595	31	498
Jeremy, George W. (See Springer and Jeremy.)						
Jernigan, Alexander J., assignor of six-eighths to A. M. Clinkscales and B. I. Egerton, Starrville, Tex. Car-coupling	326,065	Sept. 8	1152	293	32	1235
Jernigan, David B. (See Torrence and Jernigan.)						
Jerome, Alonzo W., Paxton, Ill. Printing-machine	326,988	Sept. 29	2400	627	32	1484
Jerome, Moses J., Newburg, N. Y. Ironing-table	328,783	Oct. 20	1673	436	33	390
Jerrold, John E., assignor of one-half to W. R. Edwards and A. B. Black, Milwaukee, Wis. Joint or seam for steam-boilers	329,314	Oct. 27	2446	633	33	468
Jervoy, Frank J. (See Walker and Jervoy.)						
Jess, Robert W., Riverton, Ill. Car-wheel	326,433	Sept. 15	1620	{ 423 424 }	32	1328
Jesse, Cjrus C., Charleston, S. C. Hominny-mill	313,337	Mar. 3	426	107	30	855
Jessie, Robert, Locust Lane, assignor to W. W. Nickels, W. I. Culbertson, and W. M. Pen-dleton, Scott County, Va. Animal-trap	312,124	Feb. 10	897	244	30	522
Jessup, George W., Cinnaminson, N. J. System of irrigation	315,629	Apr. 14	912	239	31	170
Jessup, John C., New York, assignor to E. Huntington, Rochester, N. Y. Grinding colors	317,367	May 5	592	.....	31	632
Jetter, Heinrich, Göppingen, Württemberg, Germany. Corset-fastening	318,119	May 19	1597	427	31	834
Jewell, Charles A., <i>et al.</i> (See Babcock, Holland C., assignor.)						
Jewell, Henry C., Washington D. C. Ruler	330,124	Nov. 10	956	248	33	694
Jewell, Lyman B., <i>et al.</i> (See Babcock, Holland C., assignor.)						
Jewell, Omar H., assignor to J. B. Clow, Chicago, Ill. Lubricator	328,313	Oct. 13	1038	268	33	196
Jewell, Phny, <i>et al.</i> (See Babcock, Holland C., assignor.)						
Jewett, Edward M., assignor to E. W. Jewett, Buffalo, N. Y. Stave-bending machine	327,173	Sept. 29	2653	690	32	1327
Jewett, Edward W. (See Jewett, Edward M., assignor.)						
Jewett, George M., assignor to Smith & Egge Manufacturing Company, Bridgeport, Conn. Snap-lock	316,269	Apr. 21	1777	468	31	335
Jewett, John C., Buffalo, N. Y. Combined filter and cooler	330,404	Nov. 17	1326	353	33	773
Jewett, Luther K. (See Loring and Jewett.)						
Jewett, Luther K., Boston, Mass. Car-truck	324,363	Aug. 18	1337	363	32	787
Jewett, Nathan, Toledo, Ohio. Sliding blind	324,384	Aug. 18	1339	364	31	787
Jewett, Nathan, Toledo, Ohio. Sliding blind	324,385	Aug. 18	1340	364	32	788
Jewett, Thomas B., assignor to J. S. Lowe and W. B. Jewett, Steubenville, Ohio. Railway-frog	310,591	Jan. 13	557	155	30	113
Jewett, Thomas B., assignor to W. B. Jewett, Steubenville, Ohio. Head-rest	332,154	Dec. 8	1353	350	33	1947
Jewett, William B. (See Jewett, Thomas B., assignor.)						
Jiencke, George, Philadelphia, Pa. Spring-motor	317,368	May 5	593	152	31	632
Jiencke, George, and A. McKee, Philadelphia, Pa. Spring-motor	315,946	Apr. 14	1348	{ 349 350 }	31	250
Jincks, Melvin, Conesus Centre, N. Y. Wash-board	327,881	Oct. 6	480	125	33	85
Jincks, Melvin, Conesus Centre, N. Y. Potato or manure fork	329,046	Oct. 27	2066	536	33	397
Jobbins, William F. (See Blue, Dennis S., assignor.)						
Jochum, John, Brooklyn, N. Y. Self-closing funnel	326,566	Sept. 22	1783	468	32	1367
Joel, Samuel, New York, N. Y. Holder for the setting of stones	319,095	June 2	203	53	31	1065
John, August, Massillon, Ohio. Vegetable-cutter	326,222	Sept. 15	1342	347	32	1276
John, William H. (See Skiles, Robert M., assignor.)						
Johns, David W., New Albany, Ind. Saw-sharpening machine	332,611	Dec. 15	1966	{ 520 521 }	33	1365
Johns, Frank L., assignor of two-thirds to J. H. Modrell and J. P. Bradford, Clay City, Ind. Hay-rack	329,047	Oct. 27	2067	537	33	398
Johns, Hanson A. (See Sleeper and Johns.)						
Johns, Henry W., New York, N. Y. Fabric for covering heated surfaces	310,205	Jan. 6	60	16	39	14
Johnsen, Alfred E., Austin, Nev. Engine	329,563	Nov. 3	193	51, 52	33	542
Johnson, Albert W., New Haven, Conn. Tuck-marking attachment for sewing-machines	329,908	Nov. 10	657	168	33	635
Johnson, Albert W., New Haven, Conn. Ruffling attachment for sewing-machines	331,793	Dec. 8	812	207	33	1151
Johnson, Albert W., New Haven, and J. P. Lavigne, Wallingford, Conn. Embroidery attachment for sewing-machines	329,564	Nov. 3	194	52	33	542
Johnson, Allen G., Quiltman, Ga. Running-gear for vehicles	319,621	June 9	1160	306	31	1269
Johnson, Allen G., Quiltman, Ga. Fly-wheel for vehicles	324,116	Aug. 11	956	263	32	706
Johnson, Alvin P., Boston, Mass. Photograph-album	318,906	May 26	2653	703	31	1034
Johnson, Andy B., Decatur, Mich. Platform-spring for vehicles	330,405	Nov. 17	1327	353	33	773
Johnson, Benjamin F. (See Smith and Johnson.)						
Johnson, Bern M., Racine, Wis. Axle-box	328,683	Oct. 20	1554	405	33	297
Johnson, Cantwell, and L. W. Nuebling, Indianapolis, Ind. Roller-skate	331,302	Dec. 1	62	15	33	1010
Johnson, Charles C., Springfield, assignor to H. W. Thompson, Westminster, Vt. Paper holder and cutter	316,368	Apr. 21	1906	504	31	356
Johnson, Charles C., Springfield, assignor to Moore, Arms & Thompson, Bellows Falls, Vt. Toilet-paper holder	322,409	Oct. 13	1184	307	33	224
Johnson, Charles F. (See Chase, Frank, assignor.)						
Johnson, Charles F., trustee. (See Chase, Frank, assignor.)						
Johnson, Charles H., Birmingham, assignor to R. Gibson, Derby, Conn. Skate	311,763	Feb. 3	394	107	30	422
Johnson, Charles J., Lone Pine, Cal. Shoe-lace fastener	313,338	Mar. 3	428	108	30	855
Johnson, Charles M., Chicago, Ill. Pneumatic dispatch-tube system	332,905	Dec. 22	2400	634	33	1442
Johnson, Charles R., New York, N. Y., assignor to Union Switch and Signal Company, Pittsburg, Pa. Railway-signal	310,519	Jan. 6	450	124	30	68
Johnson, Daniel A., Boston, Mass. Spring-washer	330,492	Nov. 17	1438	384	33	795
Johnson, Ed. H. (See Russell, Alexander, assignor.)						
Johnson, Edward H., New York, N. Y. Electric telephonic transmitter	319,415	June 2	585	150	31	1159

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Johnson, Edward H., assignor to Bergmann & Co., New York, N. Y. Connection for electrical conductors	311,130	Jan. 20	1281	352	30	250
Johnson, Edward H., assignor to Edison Electric Light Company, New York, N. Y. Safety-catch	314,582	Mar. 31	2090	558	30	1217
Johnson, Edwin A., Allegheny City, Pa. Window-bead fastener	313,674	Mar. 10	861	224	30	947
Johnson, Edwin A., Allegheny City, Pa. Sash-fastener	315,294	Apr. 7	430	108	31	78
Johnson Electric Service Company. (See Johnson, Warren S., assignor.)						
Johnson, Elias M., New York, N. Y. Wire-drawing die	321,033	June 30	2230	753	31	1586
Johnson, Elliott W., assignor to M. E. Johnson, Trumansburg, N. Y. Grain-drier	316,508	Apr. 14	732	194	31	137
Johnson, Eugene W. (See Blue, William H., assignor.)						
Johnson, Evan, Elizabethtown, N. C. Cultivator	324,386	Aug. 18	1341	365	32	728
Johnson, Ferdinand. (See Knowlton, Henry, assignor.)						
Johnson, Frank A., assignor of one-half to F. K. Stearns, Lowell, Mass. Ironing-table	326,744	Sept. 22	2061	536	32	1415
Johnson, Frank G., New York, N. Y. Sewer-gas valve	321,973	July 14	773	201	32	149
Johnson, Frank G., New York, N. Y. Sewer-gas cut-off for basins	321,974	July 14	774	202	32	149
Johnson, Frank G., New York, N. Y. Cooling and refrigerating apparatus	322,826	July 21	1905	506	32	363
Johnson, Frank G., New York, N. Y. Arm-rest for telephone use	327,692	Oct. 6	257	64	33	45
Johnson, Frank G., New York, N. Y. Telephone-cabinet	329,909	Nov. 10	659	168	33	635
Johnson, Frederick A. (See Conradson, Conrad M., assignor.)						
Johnson, Frederick A., Madison, Wis. Harrow	322,827	July 31	1907	506	32	363
Johnson, Frederick L., Wallingford, Conn. Bicycle alarm-whistle	326,745	Sept. 22	2063	536	32	1415
Johnson, George R. (See Lowe and Johnson.)						
Johnson, George W., Jr. (See Johnson, William L., assignor.)						
Johnson, Gustaf, Denver, Colo. Hay-press	330,982	Nov. 24	2068	500	33	922
Johnson, Gustaf and N. R. Larist, Col. Horse hay-fork	310,949	Jan. 20	1025	278	30	202
Johnson, Henry, Flitton, county of Lancaster, England. Railway-signal	315,792	Apr. 14	1133	297	31	213
Johnson, Henry A., Flitton, county of Lancaster, England. Mechanism for actuating and interlocking points and signals	317,137	May 5	277	70	31	574
Johnson, Henry C., et al. (See Baxter, Charles O., assignor.)						
Johnson, Henry C., Meadville, Pa. Corps cooler and preserver	311,764	Feb. 3	305	107	30	422
Johnson, Henry C., Meadville, Pa. Refrigerating apparatus for the transportation of meat, &c.	316,975	May 5	58	16	31	533
Johnson, Henry C., Meadville, Pa. Apparatus for cooling buildings, &c.	316,976	May 5	60	16	31	533
Johnson, Henry C., Meadville, Pa. Refrigerator-car	323,684	Oct. 90	1555	405	33	297
Johnson, Henry C., Meadville, Pa. Process of and apparatus for dehydrating and refrigerating air for the preservation of meat, &c.	328,685	Oct. 20	1556	405	33	297
Johnson, Henry C., Meadville, Pa. Corps cooler and preserver	328,686	Oct. 20	1558	406	33	298
Johnson, Henry C., Meadville, Pa. Refrigerating and dehydrating apparatus for meat, &c.	328,784	Oct. 20	1674	436	33	321
Johnson, Henry C., and J. B. Moore, El Dorado, Ark. Back-band hook	330,900	Nov. 24	1957	530	33	901
Johnson, Henry C., and J. Kosick, Chicago, Ill., assignors of one-half to C. O. Baxter, St. Louis, Mo. Finishing picture-frames	327,356	Oct. 6	73		33	14
Johnson, Henry J., Providence, R. I., assignor to Plumb, Burdick & Barnard, Buffalo, N. Y. Machine for forging bolt-blanks	330,901	Nov. 24	1957	530	33	901
Johnson, Herbert A., Medina, N. Y. Blinder for bridles	321,112	June 30	2938	779	31	1614
Johnson, Horace, assignor of one-half to T. W. Jackson, Akron, N. Y. Wagon-stake holder	317,138	May 5	279	71	31	574
Johnson, I. W., et al. (See Thoroughgood, John E., assignor.)						
Johnson, Isaac D., Kennett Square, Pa. Invalid-bed	325,000	Aug. 25	2185	598	32	951
Johnson, Jacob, Ashland, Neb. Check-rein swivel	330,139	June 16	1005	424	31	1335
Johnson, James A., Charlestown, Ind. Land-roller	319,725	June 9	1023	271	31	1246
Johnson, James M., Cleveland, Ohio. Expanding screw-tap	316,040	Apr. 21	1471	383	31	279
Johnson, James T., and T. Thompson, What Cheer, Iowa. Coal-drilling machine	321,034	June 30	2831	753	31	1586
Johnson, Jesse F., Indianapolis, Ind. Wheel-jack	320,477	June 23	2104	555	31	1454
Johnson, Joe E., Prescott, Ark. Motor	317,542	May 12	829	213	31	681
Johnson, John, Brooklyn, N. Y. Horseshoe	314,583	Mar. 31	2091	558	30	1217
Johnson, John, Memphis, Tenn. Shovel	327,174	Sept. 29	2654	690	32	1527
Johnson, John A., Madison, Wis. Sulky-frame	319,264	June 2	400	106	31	1123
Johnson, John A., Madison, Wis. Vehicle-shafts	326,505	Sept. 15	1702	444	32	1344
Johnson, John B., Judsonia, Ark. Transplanter	310,592	Jan. 13	558	155	30	113
Johnson, John B., Judsonia, Ark. Device for assorting berries, &c.	329,565	Nov. 3	196	52	33	542
Johnson, John D., and W. H. Long, Newton, Iowa. Steam cooking apparatus	316,549	Apr. 28	2161	568	31	410
Johnson, John H., Portland, Dak. Ter. Slate-frame and pencil-case	321,368	June 30	3254	869	31	1675
Johnson, John W., Pendleton, Mo. Car-coupling	328,785	Oct. 20	1676	436	33	321
Johnson, Josee, Norfolk, Va. Peanut cleaner and grader	315,793	Apr. 14	1135	297	31	213
Johnson, Josee, assignor to himself and H. P. Embury, Norfolk, Va. Peanut-cleaner	311,494	Feb. 3	46	13, 14	30	358
Johnson, Josee, assignor to himself and H. P. Embury, Norfolk, Va. Peanut-cleaner	311,495	Feb. 3	47	14	30	358
Johnson, Joseph R., and C. K. Wright, Gananoque, Ontario, Canada. Carriage-spring	324,703	Aug. 18	1774	490	32	868
Johnson, Joseph W., assignor to himself and M. Gidley, Lathrop, Mo. Harness-pad press	330,710	Nov. 17	1706	461	33	848
Johnson, Julius B., Johnson, Neb. Grindstone-frame	321,221	June 30	3071	815	31	1640
Johnson, Leonard A., Candor, N. Y. Clothes-drier	330,711	Nov. 17	1707	461	33	848
Johnson, Lewis, Osakis, Minn. Harrow	320,067	June 16	1502	398	31	1338
Johnson, Louis, Milwaukee, Wis. Saw-mill dog	321,222	June 30	3072	815	31	1640
Johnson, Lyman P., et al. (See Hand, Ekina, assignor.)						
Johnson, Madison L., Galena, Ill. Conductor's book	329,315	Oct. 27	2447	634	33	468
Johnson, Mary E. (See Johnson, Elliott W., assignor.)						
Johnson, Moses C., Hartford, Conn. Twist-drill	329,174	Oct. 27	2240	580	33	428
Johnson, Moses C., assignor of one-half to A. Whitney, Hartford, Conn. Drill-milling machine	324,845	Aug. 25	1973	542	32	912
Johnson, Nathaniel, New York, N. Y. School-desk	329,175	Oct. 27	2241	580	33	428
Johnson, Nels R. (See Johnson, Gustaf and N. R.)						
Johnson, Nelson, Jasper, N. Y. Saw-tooth	313,497	Mar. 3	540	142	30	877
Johnson, Nelson, Jasper, N. Y. Saw-awage	327,271	Sept. 29	2772	719	32	1549
Johnson, Peter, Dassel, Minn. Fertilizer-distributor	325,249	Sept. 1	22	7	32	1019
Johnson, Rasmus B., Fresno, Cal. Vineyard gang-plow	318,563	May 26	2203	589	31	952
Johnson, Richard, Madison, Ind. Drying starch	323,425	Aug. 4	53	14	32	532
Johnson, Samuel C., Kenosha, Wis. Stock-salter	323,378	July 14	1301	340	32	947
Johnson, Samuel H., Stratford, county of Essex, England. Filtering-paper	328,947	Oct. 27	1907		33	306
Johnson, Sander, Minneapolis, Minn. Car starter and brake	329,839	Nov. 3	563	143	33	610
Johnson, Simeon S., administrator. (See McClure, Jesse D.)						
Johnson Steel Street Rail Company. (See Townsend, John, assignor.)						
Johnson, Theodore, Petersburg, Ind. Sulky attachment for plows	331,972	Dec. 8	1073	278	33	1199
Johnson, Thomas. (See Gridley and Johnson.)						
Johnson, Thomas, assignor of one-half to W. Brandon, St. Louis, Mo. Vapor-stove	317,946	May 12	1360	365	31	781

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Johnson, Thomas, and J. McDonnell, Wilmington, Del. Apparatus for molding the frames of ships and transferring curves.	328,506	Sept. 15	1703	444	32	1344
Johnson, Tom L., Cleveland, Ohio. Cable-way for railway traction-cables.	310,284	Jan. 6	162	45, 46	30	33
Johnson, Tom L., Cleveland, Ohio. Double cable for cable railways.	310,285	Jan. 6	165	46	30	32
Johnson, Tom L., Cleveland, Ohio. Cable-railway mechanism.	317,139	May 5	270	71	31	574
Johnson, Tom L., Cleveland, Ohio. Cable-railway system.	317,140	May 5	281	72	31	575
Johnson, Tom L., Cleveland, Ohio. Cable-railway construction.	317,649	May 12	969	250	31	707
Johnson, Tom L., Cleveland, Ohio. Railway rail-chair for clamping the rails.	318,625	May 26	2271	606	31	965
Johnson, Tom L., Cleveland, Ohio. Signal for tram-cars.	320,566	Nov. 3	108	52	33	542
Johnson, Tom L., Cleveland, Ohio. Cleaning cable-ways.	333,306	Dec. 29	2069	777	33	1556
Johnson, Victor D., Mount Pleasant, Iowa. Sled-runner.	331,303	Dec. 1	64	15, 16	33	1011
Johnson, Walter T., Columbus, Ga. Ticker for sewing-machines.	335,069	Aug. 25	2297	632	32	973
Johnson, Warren S., Whitewater, assignor of one-half to W. Plankinton, Milwaukee, Wis. Thermo-pneumatic temperature-regulator.	314,027	Mar. 17	1353	362	30	1045
Johnson, Warren S., assignor to Johnson Electric Service Company, Whitewater, Wis. System of temperature-regulation.	331,406	Dec. 1	213	56	33	1036
Johnson, William, East Moulsey, county of Surrey, England. Rudder attachment.	313,330	Mar. 3	419	108	30	855
Johnson, William A., Boston, Mass. Stand-pipe attachment for bath-tubs.	327,272	Sept. 29	2773	730	32	1549
Johnson, William D., Elmore, Ohio. Machine for cutting wooden vessels.	315,509	Apr. 14	733	194 195	31	137
Johnson, William F., Rock Falls, assignor to T. A. Galt and G. S. Tracy, Sterling, Ill. Corn-planter.	313,596	Mar. 10	763	201	30	928
Johnson, William H. (See Mason, William H., assignor.)						
Johnson, William H., et al. (See Oliphant, Samuel C., assignor.)						
Johnson, William H., Racine, Wis. Combined gang-punch and bending-machine.	326,746	Sept. 23	2064	536 537	32	1415
Johnson, William H., Westminster, county of Middlesex, assignor to R. B. Ellington, Chester, England. Hydraulic lift.	311,327	Jan. 27	1571	428	30	209
Johnson, William J., Boston, Mass. Machine for shaving stereotype-plates.	315,794	Apr. 14	1137	298	31	213
Johnson, William L., assignor to G. W. Johnson, Jr., Hackettstown, N. J. Filter.	332,680	Dec. 15	2058	541	33	1378
Johnson, William S. (See Carter and Johnson.)						
Johnson, Allen, et al. (See Briggs, Alfred, assignor.)						
Johnson, Allen, Ottumwa, Iowa. Pump and engine.	312,726	Feb. 24	1729	475	30	694
Johnson, Allen, Ottumwa, Iowa. Ruffling and gathering attachment for sewing-machines.	313,418	Mar. 3	541	142	30	878
Johnson, Allen, Ottumwa, Iowa. Box or case for sewing-machine attachments.	315,039	Apr. 7	73	17	31	15
Johnson, Allen, Ottumwa, Iowa. Screw-machine.	316,728	Apr. 28	2504	654	31	473
Johnson, Allen, Ottumwa, Iowa. Attachment-holder or means for securing sewing-machine attachments.	321,217	July 7	561	147	32	104
Johnson, Allen, Ottumwa, Iowa. Ruffling or gathering attachment for sewing-machines.	324,261	Aug. 11	1166	317 318	32	747
Johnston, Columbus, Clarksville, and S. T. Johnston, St. Louis, Mo. Rotary plow and pulverizer.	315,947	Apr. 14	1351	350	31	250
Johnston, David. (See Johnston, William H. and D.)						
Johnston, David M., Stockton, Cal. Gang-plow.	331,503	Dec. 1	348	94	33	1061
Johnston, Edward E. (See Becker, Leander, assignor.)						
Johnston, Edward H., Philadelphia, Pa. Railway-switch.	318,198	May 19	1683	451	31	850
Johnston, Edward H., assignor to Wharton Railroad Switch Company, Philadelphia, Pa. Mechanism for adjusting and locking switches.	311,433	Jan. 27	1716	467	30	335
Johnston, George, San Francisco, and E. G. Smith, Sacramento, Cal. Grape stemmer and crusher.	327,693	Oct. 6	258	64	33	45
Johnston Harvester Company. (See Cooley, Orville, assignor.)						
Johnston Harvester Company. (See McLachlan, John C., assignor.)						
Johnston Harvester Company. (See Pridmore, Edward, assignor.)						
Johnston, James J., Columbiana, Ohio, assignor of seven-eighths to W. W. Gibbs, Philadelphia, and A. C. Ellis, Pittsburgh, Pa. Manufacture of iron.	312,641	Feb. 24	1616	444 445	30	674
Johnston, James J., Columbiana, Ohio, assignor of seven-eighths to W. W. Gibbs, Philadelphia, and A. C. Ellis, Pittsburgh, Pa. Cupola-furnace.	312,727	Feb. 24	1730	475	30	694
Johnston, James J., assignor to Light and Fuel Company, Columbiana, Ohio. Composition of matter for the manufacture of gas.	312,728	Feb. 24	1732	476	30	694
Johnston, James J., assignor to Light and Fuel Company, Columbiana, Ohio. Apparatus for manufacturing gas.	312,729	Feb. 24	1732	476	30	695
Johnston, James J., assignor to Light and Fuel Company, Columbiana, Ohio. Manufacturing gas.	312,730	Feb. 24	1733	476 477	30	695
Johnston, John, and B. B. Stewart, Algonquin, Ill. Corn-husking machine.	316,150	Apr. 21	1638	426 427	31	309
Johnston, Louella, Columbus, Ohio. Combined toilet-case and satchel.	312,355	Feb. 17	1234	339	30	592
Johnston, Robert A., Allegheny, Pa. Means for instructing beginners in roller-skating.	330,493	Nov. 17	1439	384	33	795
Johnston, Samuel, and G. H. Raymond, Brockport, N. Y. Harvesting-machine.	331,887	Dec. 8	955	247	33	1177
Johnston, Samuel B., and S. Hunter, Coon Rapids, Iowa. Compound for coating metallic roofing.	314,584	Mar. 31	2091		30	1217
Johnston, Sylvester T. (See Johnston, Columbus and S. T.)						
Johnston, Thomas, San Francisco, Cal. Bicycle.	314,335	Mar. 24	1754	418	30	1129
Johnston, Thomas, assignor to Chaborn & Coldwell Manufacturing Company, Newburg, N. Y. Meat-cutting machine.	319,910	June 9	1261	337 338	31	1290
Johnston, Walter R., Sherbrooke, Quebec, Canada. Combined belt buckle and cup.	326,296	Sept. 15	1450	378	32	1297
Johnston, William, La Junta, Colo. Injector.	315,630	Apr. 14	913	240	31	170
Johnston, William, Damariscotta, Me. Plant-protector.	326,872	Sept. 22	2244	525	32	1442
Johnston, William, Essex, Iowa. Pump.	329,910	Nov. 10	660	168	33	635
Johnston, William, assignor of one-half to C. Gallagher, Philadelphia, Pa. Shaft-coupling.	331,200	Nov. 24	2363	639	33	976
Johnston, William, and W. J. Taylor, Monominee, Mich. Draw-bridge gate.	321,975	July 14	775	202	32	149
Johnston, William A., Clifton, and A. W. Browne, Westfield, N. Y., assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Angle attachment for dental engines.	319,583	June 9	834	221	31	1211
Johnston, William A., Clifton, and A. W. Browne, Westfield, N. Y., assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental pliers for adjusting tools in hand-pieces.	319,584	June 9	835	222	31	1211
Johnston, William H., North Fairfield, Ohio. Device for lowering coffins.	311,075	Jan. 20	1206	331	30	227
Johnston, William H. and D. Tamaroa, Ill. Revolving drop-leaf table.	317,141	May 5	283	72	31	575
Johnston, William M. (See Moles, Charles E., assignor.)						
Johnstonbaugh, Thomas, Clearfield, Pa. Liming-vat.	321,300	June 30	3166	844	31	1658
Johnstone, Francis W., Mexico, Mexico. Journal-bearing.	312,860	Feb. 24	1911	524	30	726
Johnstone, Francis W., Mexico, Mexico. Locomotive.	331,973	Dec. 8	1074	279 280 281	33	1200

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Johnstone, John F., Bow Common Lane, county of Middlesex, assignor to H. J. Anderson, No. 101 Leadenhall Street, London, England. Drier	327,048	Oct. 6	572	149	33
Johnstone, William, assignor to G. C. Banks, Edinburgh, county of Edinburgh, Scotland. Hansom-cab	331,504	Dec. 1	350	94, 95	33
Joliet Barb Wire Company. (See Bates, Albert J., assignor.)					
Joliet Enterprise Company. (See Sunderland, Leslie E., assignor.) (Reissue.)					
Joliet Wire Check Rower Company. (See Caywood, George W., assignor.)					
Jolliffe, William H., Baltimore, Md. Commode	313,597	Mar. 10	764	901	30
Jolliffe, William H., Baltimore, Md. Window-awning	323,338	July 28	9642	703	32
Jolly, Benjamin R., Raleigh, N. C. Calendar	330,028	Nov. 10	921	211	33
Joly, Charles. (See Lloyd, Edwin L., assignor.)					
Jonas, John A., Reserve, Kans. Wagon-box fastener	322,184	July 14	1059	274	32
Jones, Alfred, and T. Blake, St. Louis, Mo. Oil-press mat	314,679	Mar. 31	2213	588	30
Jones, Allen, San Marcos, Tex. Self-cleaning plow	324,559	Aug. 18	1563	432	32
Jones, Amasa. (See Knowlton, William H., assignor.)					
Jones, Amorous O., Flint, Mich. Key-ring attachment	314,028	Mar. 17	1356	353	30
Jones, Arthur, Chicago, Ill. Hand-grenade fire-extinguisher	318,969	May 26	2654	703	31
Jones, Arthur W., Oshkosh, Wis. Match-splint straightener	314,620	Mar. 31	2214	588	30
Jones, Augustus H., Meriden, Conn. Hanging lamp	311,076	Jan. 20	1207	331	30
Jones, Benjamin F., Glenwood, Iowa. Machine for holding and handling fruit-jars	312,642	Feb. 24	1618	445	30
Jones, Benjamin F., Beauregard, Miss. Plate for securing traces to back-bands	322,059	July 14	892	231	32
Jones & Bro., C. E. (See See, James W., assignor.)					
Jones, Calvin M., assignor to T. R. Brown, Fresno, Cal. Road-scraper and excavator	314,135	Mar. 17	1496	390	30
Jones, Charles E., Cincinnati, Ohio. Electric car-brake	324,774	Aug. 18	1869	514	32
Jones, Charles F. (See Meredith, Gallacher, and Jones.)					
Jones, Charles T. (See Jones, John T. and C. T.)					
Jones, Clinton R., et al. (See Cassidy, Thomas W., assignor.)					
Jones, Daniel E., Denton, Tex. Open fire-place	327,396	Sept. 29	2042	768	32
Jones, Daniel N., Wichita, Kans. Wagon-box coupling	321,367	June 30	3255	869	31
Jones, Edgar A., Three Rivers, Mich. Swinging gate	318,041	Apr. 21	1471	324	31
Jones, Edgar A., Three Rivers, Mich. Machine for making spiral springs	317,543	May 12	830	213	31
Jones, Edgar A., Three Rivers, Mich. Spring	326,030	Sept. 8	1066	277	32
Jones, Edward, Leeds, county of York, England. Dynamo-electric machine	321,609	July 7	272	72, 73	32
Jones, Edward, Leeds, county of York, England. Secondary battery	331,407	Dec. 1	215	56	33
Jones, Edward, Leeds, county of York, England. Manufacturing electrodes for secondary batteries	331,406	Dec. 1	217	57	33
Jones, Edward C., Hamilton, assignor to J. D. Smith and W. Lutes, Townsend township, Ontario, Canada. Fence-post and wire-fastening	327,443	Sept. 29	3000	784	32
Jones, Edward I. (See Patteeon, William W., assignor.)					
Jones, Edwin, et al. (See Howarth, Robert, assignor.)					
Jones, Edwin. (See Ruck and Jones.)					
Jones, Elias H. (See Cannon and Jones.)					
Jones, Evan W., Portland, Oreg. Rock-crusher	329,048	Oct. 27	2068	537	33
Jones, Florentine A., Malden, Mass. Pressure-regulator	330,240	Nov. 10	1093	288	33
Jones, Francis W., New York, N. Y. Overcoming static disturbances in telegraphy	310,684	Jan. 13	672	125	30
Jones, Francis W., New York, N. Y. Quadruplex telegraph	310,685	Jan. 13	674	186	30
Jones, Frank C., assignor to New York Belting and Packing Company, New York, N. Y. Vulcanized-rubber packing	331,140	Nov. 24	2275	617	33
Jones, Franklin D., Burlington, Kans., assignor of one-fourth to H. M. Hart, Perry, Iowa. Mechanical motor	313,598	Mar. 10	765	901	30
Jones, Franklin D., and H. M. Hart, Burlington, Kans. Mechanical motor	330,099	Nov. 10	822	211	33
Jones, George E., Cohoes, N. Y. Knitting-machine needle	322,454	July 21	1409	369	32
Jones, Gilbert E., New York, N. Y. Machine for winding up paper. (Reissue)	10,611	June 16	2068	543	31
Jones, Harry C., Lancaster, N. H. Bicycle	314,849	Mar. 31	2461	650	30
Jones, Henry L., Buffalo, N. Y. Iron fence	313,825	Mar. 10	1066	274	30
Jones, Horace K. (See Russell and Jones.)					
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Barbed-wire shoe-nail	313,078	Mar. 3	51	14	30
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Intermittent roll feed mechanism	314,451	Mar. 24	1904	506	30
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Machine for spirally scoring wire	315,144	Apr. 7	213	52, 53	31
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Wire-nail stock	318,564	May 26	2204	589	31
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Wire-nail stock	318,565	May 26	2205	589	31
Jones, Horace K., Hartford, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Nail	318,566	May 26	2205	589	31
Jones, Hugh, assignor to Patent Window Fittings Company, Liverpool, county of Lancaster, England. Sash-balancing device	321,035	June 30	2832	753	31
Jones, J. W. (See Smith, Presley S., assignor.)					
Jones, James, St. Louis, Mo. Hydrant	316,042	Apr. 21	1472	324	31
Jones, James E. (See Gifford and Jones.)					
Jones, James H. (See Powers, Jones, and Powers.)					
Jones, James H., Scotland, Mo. Mowing-machine	311,006	Jan. 20	1102	301	30
Jones, James H., assignor to Emerson, Talcott & Co., Rockford, Ill. Cultivator	316,369	Apr. 21	1909	505	31
Jones, James H., assignor to Emerson, Talcott & Co., Rockford, Ill. Tubular beam	327,949	Oct. 6	574	149	33
Jones, James H., assignor to Emerson, Talcott & Co., Rockford, Ill. Seeding-machine	327,950	Oct. 6	575	149	33
Jones, James S., Crutchfield, Ky. Washing-machine	328,891	Oct. 20	1815	473	33
Jones, Joel H., Lynchburg, Va. Circular sawing machine	321,976	July 14	776	202	32
Jones, John D., North Topeka, Kans. Splint-cutting machine	311,490	Feb. 3	49	14	30
Jones, John D., Topeka, Kans. Splint-cutting machine	324,387	Aug. 18	1342	365	32
Jones, John E., New York, N. Y. Window frame and sash	319,265	June 2	401	106	31
Jones, John E., Utica, N. Y. Millstone-driver	327,444	Sept. 29	3001	784	32
Jones, John H., Clio, La. Truss for roofs or bridges	318,626	May 26	2272	606	31
Jones, John T. and C. T., Utica, N. Y. Roller for skates	322,611	July 21	1624	439	32
Jones, John W., Utica, N. Y. Adjustable tag	316,628	Apr. 28	2261	595	31
Jones, John W., Toronto, Ontario, Canada. Combined bedstead and dressing-table	324,775	Aug. 18	1871	514	32
Jones, Joseph W., Somerset, Ind. Land-roller	328,469	Oct. 20	1279	332	33
Jones, Kasak S., assignor to R. N. Jones, Flint, Mich. Billiard-chalk holder	331,220	Dec. 29	2862	748	33

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Jones & Laughlins. (See Early, William J., assignor.)						
Jones & Laughlins. (See Kennedy, Robert W., assignor.)						
Jones, Lemuel R., Winchester, Ind. Horse-power	333,415	Dec. 29	3107	809	33	1579
Jones, Levin T., Baltimore, Md. Sewing-machine table	310,438	Jan. 6	355	97	30	69
Jones, Levin T., Baltimore Md. Umbrella drip-cup	330,789	Nov. 17	1800	488	33	866
Jones, Lyman M. (See Wedlake and Jones.)						
Jones, M. Henry, Raleigh, N. C. Bonquet-holder	317,650	May 12	971	250	31	707
Jones, Mary M., Menomonee, Wis. Corset	332,202	Dec. 8	1407	363	33	1257
Jones, Morgan, New York, N. Y. Valve-lock	313,211	Mar. 3	253	64	30	823
Jones, Moses D., Jackson, Ohio. Coal-chute	312,207	Feb. 10	1025	280	30	546
Jones, Nathaniel, Berkeley, Cal. Hernial truss	326,122	Sept. 15	1193	305	32	1249
Jones, Nicholas R. (See Patterson and Jones.)						
Jones, Otis, Chicago, Ill. Hot-air furnace	315,040	Apr. 7	76	18	31	15
Jones, Owen H. (See Hoxie, Benjamin W., assignor.)						
Jones, Ralph A. (See Whittingham and Jones.)						
Jones, Ransom N. (See Jones, Kassak S., assignor.)						
Jones, Reuben, Atlanta, Ga. Band-pulley	326,873	Sept. 22	2245	585	32	1448
Jones, Reuben R., Sprague, Wash. Ter. Fire-place	313,675	Mar. 10	861	224	30	948
Jones, Richard B. (See Wetherell and Jones.)						
Jones, Richard F., St. Louis, Mo. Electric-arc lamp	326,121	Sept. 15	1194	305	32	1249
Jones, Robert, Salt Lake City, Utah Ter. Car-replacer	310,520	Jan. 6	453	125	30	88
Jones, Robert V., Cleveland, Ohio. Rail-joint	322,924	July 21	1908	507	33	363
Jones, Ruth L. (See Ross, James A., assignor.)						
Jones, Theodore R., Urica, N. Y. Couch	316,043	Apr. 21	1473	324	31	280
Jones, Thomas. (See Garsuch and Jones.)						
Jones, Thomas. (See Phillips and Jones.)						
Jones, Thomas A., et al. (See Wetmore, William H., assignor.)						
Jones, Thomas J. (See Fitz Gerald and Jones.)						
Jones, Walter W. (See Van Anken, Thomas B., assignor.)						
Jones, Washington, Lancaster, Pa. Tobacco-booking machine	310,593	Jan. 13	559	155	30	113
Jones, Wiley, Norfolk, Va. Shoe-stretcher	315,631	Apr. 14	914	240	31	170
Jones, Wilcy, Norfolk, Va. Boot and shoe stretcher	319,585	June 9	837	222	31	1211
Jones, Wiley, Norfolk, Va. Boot or shoe stretcher	321,610	July 7	975	73	32	53
Jones, Wiley, Norfolk, Va. Station-indicator	327,951	Oct. 6	576	150	33	104
Jones, William, and W. W. Reynolds, Cassopolis, Mich. Acoustic diaphragm	322,223	July 14	1186	311	32	226
Jones, William C., et al. (See Beam, Henry T., assignor.)						
Jones, William E., et al. (See Howarth, Robert, assignor.)						
Jones, William E., Asheville, N. C. Portable fence	328,549	Oct. 20	1760	459	33	336
Jones, William H., Liberty, Ind. Hand-rake	324,940	Aug. 25	2097	574	32	936
Jones, William R. (See Bulmer, George D. and C., assignors.)						
Jones, William R., Braddock, Pa. Making rails	326,908	Sept. 22	2294	600	32	1456
Jones, William T., Woodstock, Iowa. Coffee and tea pot	320,561	June 23	2212	583	31	1474
Jones, William T., Prescott, Ark. Buckle	324,846	Aug. 25	1976	543	32	913
Jones, Willis, Brooklyn, N. Y., assignor by mesne assignments, to American Axle and Wheel Company of New York. Carriage-axle. (Reissue.)	10,583	Apr. 21	2000	527	31	375
Jönsson, Oscar F., Stockholm, Sweden. Automatic stop apparatus for motors driving dynamo-electric machines	326,223	Sept. 15	1343	347	32	1277
Jönsson, Oscar F., Stockholm, Sweden. Dynamo-electric machine	330,836	Nov. 17	1868	504 505	33	877
Jönsson, Sven, assignor to Burmeister & Wain's Maskin, og Skibsbyggeri, Copenhagen, Denmark. Device for transmitting rotary motion	320,437	June 16	9040	537	31	1434
Joo, Morris, Roanoke, Va. Car-coupling	312,861	Feb. 24	1213	524	30	726
Jopson, George W. (See Mitchell, John M., assignor.)						
Jopson, George W., Meriden, Conn. Key-ring	320,792	June 23	2503	663	31	1529
Jordan, Charles J., Woodbury, N. J. Bottle stopper and fastener	326,656	Sept. 22	1911	502	32	1389
Jordan, Charles M., Minneapolis, Minn. Printing-telegraph receiver	326,989	Sept. 29	2461	628	32	1484
Jordan, Edmund, Brooklyn, N. Y. Drawing-board	329,392	Oct. 27	2770	663	33	488
Jordan, Edmund, Brooklyn, N. Y. Friction-clutch	329,393	Oct. 27	2772	663	33	489
Jordan, Edmund, assignor to E. W. Bliss, Brooklyn, N. Y. Trimming-machine	310,894	Jan. 20	937	255	30	180
Jordan, Edmund, assignor to E. W. Bliss, Brooklyn, N. Y. Machine for forming and seaming sheet-metal tubes	310,895	Jan. 20	938	255 256 257	30	181
Jordan, Edmund, Brooklyn, assignor to M. H. Cashman, New York, N. Y. Making barbed metallic fencing	314,183	Mar. 17	1551	406 407	30	1081
Jordan, Edmund, assignor to E. W. Bliss, Brooklyn, N. Y. Seaming-machine	314,336	Mar. 24	1755	408	30	1129
Jordan, Edmund, Brooklyn, N. Y., assignor, by mesne assignments, to E. and O. W. Norton, Chicago, Ill. Heading machine	322,060	July 14	892	231 232	32	170
Jordan, Edmund, assignor to E. W. Bliss, Brooklyn, N. Y. Can-cleansing machine	328,892	Oct. 20	1815	473	33	346
Jordan, George, New York, N. Y. Wall-covering	325,080	Aug. 25	2298	632	32	973
Jordan, Jesse, and O. F. Lagerquist, Macon, Ga. Seal-lock	328,893	Oct. 20	1817	474	33	347
Jordan, Joseph, Philadelphia, Pa. Apparatus for beating and manipulating paper pulp	314,248	Mar. 24	1631	431	30	1106
Jordan, Louis, New York, N. Y. Toilet-case	328,588	Oct. 20	1417	369	33	273
Jordan, Michael, et al. (See King, George H., assignor.)						
Jordan, Oswald F. (See Curry, Lewis M., assignor.)						
Jordan, Oswald F., St. Thomas, Ontario, Canada, and L. M. Curry, Chicago; said Curry assignor to H. A. Black, Franklin Grove, Ill. Switch-lamp	328,490	Oct. 20	1280	332	33	249
Jordan, Richard C., Ottawa, Ill. Hay-carrier	320,876	June 23	2610	692	31	1550
Jordan, Thomas R., et al. (See Wynne, George F., assignor.)						
Jordan, William S., Worcester, assignor to B. Dow & Co., Boston, Mass. Automatic sprinkler	330,125	Nov. 10	957	248	33	694
Jordan, Michael, et al. (See Millard and King, assignors.)						
Jorgensen, Axel, assignor to W. L. Carpenter, Des Moines, Iowa. Barb straightening and compressing attachment for wire-barbing machines	322,379	July 14	1303	340	32	248
Joseph, Charles. (See Stokes, Robert L., assignor.)						
Joslin, Alexander D., Chicago, Ill. Baggage-check	324,388	Aug. 18	1343	365	32	789
Joslin, Henry W., assignor to himself and G. Agnew, Titusville, N. J. Boot or shoe	329,049	Oct. 27	2070	537	33	398
Joslin, Hiram L., assignor of one-half to G. A. Clark, Mankato, Minn. Fishing-reel	321,900	July 7	675	175	32	123
Joslin, William, Painesville, Ohio. Car-wheel	311,837	Feb. 3	485	132	30	440
Joslin, William, Cleveland, Ohio. Car-wheel	316,977	May 5	61	16	31	534
Joslyn, James W., et al. (See Maguire, John, assignor.)						
Jossa, Ferdinand, Boston, Mass. Disinfecting compound	321,368	June 30	3256		31	1675
Josselyn, Henry R. (See Stewart, Thomas S., assignor.)						
Jowitt, Josiah, Stanley, N. J. Roofing-felt and its manufacture	318,910	May 26	2654	704	31	1034

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Jowitt, Josiah, Stanley, N. J. Waxing paper.	318,911	May 26	2657	704	31	1035
Joy, Albert B., 26 Savile Row, and J. J. Lowen, 13 Beaumont Road, county of Middlesex, England; said Lowen assignor to said Joy. Treating plaster casts	317,369	May 5	595		31	632
Joy, Thaddeus C., Titusville, Pa. Sectional steam-generator	317,370	May 5	596	153	31	632
Joy, William, Northfleet, England. Manufacture of cement	331,243	Nov. 24	2426		33	987
Joyce, George A. (See Rushmer and Joyce.)						
Joyce, Joseph L., New Haven, Conn. Egg-carrier	314,942	Mar. 31	2594	687	30	1308
Joyce, Maurice, Washington, D. C. Stereotype-block	327,798	Oct. 6	385	100	33	67
Joyce, Maurice, Washington, D. C. Producing printing-surfaces	333,120	Dec. 29	2721	714	33	1511
Joyner, Edgar D., Glens Falls, N. Y. Rudder-connection for boats	317,460	May 5	724	183	31	654
Joynt, Charles W., Makanda, Ill. Fire-escape	311,661	Feb. 3	265	73	30	326
Judd, Charles B., assignor to Bisell Carpet Sweeper Company, Grand Rapids, Mich. Show stand and rack for displaying carpet-sweepers	390,362	June 16	1936	510	31	1413
Judd, Edward C., assignor of one-half to A. Fuller, Lynn, Mass. Last for beating-out machines	319,096	June 2	204	53	31	1085
Judd, Henry, West Cheshire, assignor of one-half to J. Scott, Southington, Conn. Pocket-rule	330,837	Nov. 17	1870	506	33	877
Judd, William S., Carthage, Mo. Band-cutter and feeder for thrashing-machines	315,948	Apr. 14	1351	350 351	31	250
Judge, Edward S., assignor to Warfield Manufacturing Company, Baltimore, Md. Can-filling machine.	320,363	June 16	1937	510	31	1414
Judge, George. (See Snelson, William H., assignor.)						
Judge, George. (See Snelson and Judge.)						
Judge, Thomas, and T. Clayton, assignors of one-third to H. Glanville, Philadelphia, Pa. Rasp.	324,369	Aug. 18	1245	366	32	789
Judkins, Edwin H., San Francisco, assignor of one-half to J. W. Tucker, Oakland, Cal. Coffee-pot	311,990	Feb. 10	722	198	30	469
Judson, Agur, assignor of one-half to F. M. Kummer, Newark, N. J. Cover for chamber-pails, &c.	312,998	Feb. 24	2086	569	30	757
Judson, Alfred C., Floyd, Iowa. Trace-carrier	322,380	July 14	1303	340	32	248
Judson, Charles N., Brooklyn, N. Y. Printing-telegraph	322,491	Oct. 20	1281	333	33	949
Judson, Junius, Rochester, N. Y. Governor	315,632	Apr. 14	915	240	31	170
Judson Manufacturing Company. (See Halsey, William S., assignor.)						
Judson, Rowell S., and C. J. Hancock, Matteawan, N. Y. Machine for sanding brick-molds	322,455	July 21	1410	369	32	273
Jukes, Wesley L., New York, N. Y. Manufacturing glass tubing	321,309	June 30	3256	869	31	1675
Julian, William F., Medora, Ind. Car coupling	313,671	Mar. 17	1143	298	30	1006
Julier, George C. (See White, Elisha S., assignor.)						
Julig, Leopold, San Francisco, Cal. Gas-lamp	327,090	Sept. 29	2539	662	32	1507
Juliaberger, Fedor, Berlin, Germany. Fountain-pen	331,794	Dec. 8	814	207	33	1151
Jull, Samuel T. (See Halsey and Jull.)						
Jull, Samuel T., Cleveland, assignor of one-half to D. J. C. Arnold, New London, Ohio. Carpet cleaning machine	330,406	Nov. 17	1388	353	33	774
Jungbluth, Joseph, Erie, Pa. Cork for wash-basins	314,943	Mar. 31	2595	687	30	1308
Junge, Frederick, Chicago, Ill. Velocipede	327,952	Oct. 6	577	150	33	104
Jungenfeld, Edmund, and H. Raasbach, assignors to Empire Refrigerating Company, St. Louis, Mo. Oil-drip and separating-tank for ammonia-gas pumps	332,344	Dec. 15	1609	422	33	1300
Jungenfeld, Edmund, and H. Raasbach, assignors to Empire Refrigerating Company, St. Louis, Mo. Stop-cock for ammonia-gas	332,345	Dec. 15	1610	423	33	1300
Jungenfeld, Edmund, and H. Raasbach, assignors to Empire Refrigerating Company, St. Louis, Mo. Gas-compressor	332,346	Dec. 15	1611	423	33	1300
Junger, Max, Linzau, near Leipzig, Germany. Piano-hammer	317,651	May 12	972	251	31	707
Jungerman, Edward, Gettysburg, Pa. Device for preventing false fire-alarms	320,068	June 16	1502	398	31	1339
Junghans, Arthur, Schramberg, Württemberg, Germany. Regulator for time-pieces	320,592	June 23	2213	585	31	1474
Junkins, William F. (See Hinson, Cornelius W., assignor.)						
Junod, Alfred H., Highland, Ill. Combined sink, sideboard, &c.	312,999	Feb. 24	2087	569	30	757
Jury, Fredrik H., New York, N. Y. Child's carriage	319,416	June 2	586	159 160	31	1160
Just, John, Sauk City, Wis. Clothes-pounder	314,534	Mar. 24	2025	540	30	1178
Just, John A., New York, assignor to himself, L. F. Phillips, Watertown, and C. F. Gibbs, Brooklyn, N. Y. Chlorine-gas washer	317,796	May 12	1161	307	31	743
Justus, William H., Massillon, Ohio. Apparatus for steaming grain	317,461	May 5	725	183	31	654
Kabisch, Carl, Cleveland, Ohio. Wrench	331,974	Dec. 8	1062	281	33	1201
Kachline, Reuben H., Martin's Creek, Pa. Transportation-barrel	314,681	Mar. 31	2215	528 529	30	1239
Kaczander, Leopold. (See Ruddy and Kaczander.)						
Kadel, William H., Rock Falls, Ill. Corn-planter	328,036	Oct. 13	688	182	33	139
Kaemp, Reinhold H. (See Nagel, Kaemp, and Linnenbrügge.)						
Kaempf, Nicolaus, Tracy, Wis. Punching and shearing machine	319,978	June 16	1387	365	31	1317
Kaestner, Charles. (See Gates and Kaestner.)						
Kaestner, Charles, Chicago, Ill. Friction-clutch	328,786	Oct. 20	1677	437	33	321
Kaffenberger, Gustav. (See Black and Kaffenberger.)						
Kahl, Adolph, Sorento, Ill. Blast-regulator for fans	329,567	Nov. 3	199	53	33	543
Kahler, Clarence H., Wilmington, Ill. Pocket-knife	323,938	Aug. 11	721	201	32	666
Kahler, Clarence H., Wilmington, Ill. Pocket-knife	332,537	Dec. 15	1287	493	33	1347
Kahlhofer, Charles, Centralia, Ill. Buckle	314,452	Mar. 24	1900	509	30	1158
Kahls, Hermann, Chemnitz, Saxony, Germany. Mat-work lathing	331,888	Dec. 8	957	247	33	1177
Kahn, Jacob, et al. (See Russet, Charles F., assignor.)						
Kail, Thomas B. (See Dierks and Kail.)						
Kailer, John N. (See Miller and Kailer.)						
Kailor, John N., Newark, assignor to Newark Machine Company, Columbus, Ohio. Rubber for clover-hullers	310,521	Jan. 6	453	125	30	88
Kailor, John N., Newark, assignor to Newark Machine Company, Columbus, Ohio. Rubber for clover-hullers	310,522	Jan. 6	455	125	30	88
Kailor, John N., Newark, assignor to Newark Machine Company, Columbus, Ohio. Rubber for clover-hullers	310,523	Jan. 6	455	125	30	88
Kaino, Johan. (See Cureton and Kaino.)						
Kaiser, Alexander, Freiburg, Switzerland. Differential-pressure valve	313,080	Mar. 3	54	15	30	788
Kaiser, Alexander, Freiburg, Switzerland. Differential-pressure valve. (Reissue)	10,645	Sept. 22	2327	609 610	32	1464
Kaiser, Jacob, Cleveland, Ohio. Governor for steam-engines	233,130	Dec. 29	2722	715	33	1511
Kaiser, Otto, Jarrettown, Pa. Flower-pot	314,682	Mar. 31	2216	529	30	1240
Kaiser, William, Wilkes-Barre, Pa. Bird-cage	324,704	Aug. 18	1775	490	32	868
Kalanquin, Charles. (See Reinhard and Kalanquin.)						
Kaldenberg, Frederick J., New York, N. Y. Toilet-mirror	310,950	Jan. 20	1026	278	30	202

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Kaley, John A., Carey, Ohio. Type-writing machine	317,371	May 5	597	153 154	31	632
Kalina, John J., Collinsville, Ill. Vehicle-spring	314,089	Mar. 17	1357	353	30	1046
Kalischer, Salomon, Berlin, Germany. Secondary battery	311,007	Jan. 20	1103	302	30	918
Kalischer, Salomon, Berlin, Germany. Secondary battery	311,008	Jan. 20	1105	309	30	918
Kaliske, Joseph S. (See Ortlepp, Friederich, assignor.)						
Kalling, Lewis, Jr., Baltimore, Md. Bottle-stopper fastening	330,719	Nov. 17	1708	461	33	848
Kalling, Lewis, Jr., Baltimore, Md. Bottle-stopper fastening	330,083	Dec. 8	1945	325	33	1329
Kaltenbacher, Dominick, Shelbyville, Ky. Blinder for bridles. (Reissue)	10,569	Mar. 10	1099	985	30	969
Kaltmeyer, Gotthold E., San Buenaventura, Cal. Seed-sower	319,586	June 9	838	292	31	1211
Kamak, Max, New York, N. Y. Combined knife and scissors	310,439	Jan. 6	356	97	30	69
Kamak, Max, New York, N. Y. Button-hole cutter	316,151	Apr. 21	1633	427	31	310
Kamerer, John H., assignor of one-half to W. Oliver, Plainwell, Mich. Table-walter	321,977	July 14	778	303	32	150
Kamman, George H., Champaign, Ill. Ditching-machine	324,928	Aug. 11	1260	342	32	765
Kamps, John H. (See Wilhelm, Bartholomy, assignor.)						
Kanavan, John J. (See Clancy, Patrick J., assignor.)						
Kane, Daniel, Norwich, Conn. Belt-hole cover	327,694	Oct. 6	259	65	33	46
Kane, Daniel P., St. Louis, Mo. Reversing device for engines	328,787	Oct. 20	1678	437	33	321
Kane, John, assignor to J. S. Graham & Co., Rochester, N. Y. Pressure and feed mechanism for wood-planers	315,510	Apr. 14	736	195	31	138
Kane, Maurice, Chicago, Ill. Draft-equalizer	328,037	Oct. 13	690	182	33	132
Kane, Thomas. (See Durant, Edward G., assignor.)						
Kane, Thomas F. (See Young, Samuel H., assignor.)						
Kangley, John, and W. S. Cherry, Streator, Ill. Steam-generator	311,900	Feb. 10	593	162	30	406
Kannacher, George H., Columbus, Ohio. Window-fastener	311,765	Feb. 3	396	108	30	423
Kannacher, George H., Columbus, Ohio, assignor to R. Deimel & Brothers, Chicago, Ill. Folding bedstead	332,612	Dec. 15	1988	521	33	1365
Kann, Gustav S., Baltimore, Md. Shoe	310,440	Jan. 6	357	98	30	69
Kannaley, John P., assignor of one-half to W. H. King, Albany, N. Y. Heel or toe plate	311,009	Jan. 20	1107	302	30	918
Kanouse, John G., assignor of two-thirds to R. Miller and W. Polifka, Appleton, Wis. Hay-carrier	330,983	Nov. 24	2069	560 561	33	982
Kanters, Abraham M., Buffalo, N. Y. Fascine-binder	313,340	Mar. 3	430	106	30	856
Kantner, Alexander, Philadelphia, Pa. Driving-belt coupling	330,140	June 16	1605	494	31	1355
Kaplan, Godfrey J., Owatonna, Minn. Draft-equalizer	330,793	June 23	2604	663	31	1530
Kaplaw, Joseph W. (See Belina, Wencil J., assignor.)						
Kappenberg, Augustus W., East Hartford, Conn. Fertilizer-drill	331,201	Nov. 24	2364	640	33	976
Kappner, Henry, Elizabeth, Colo. Dry-ore amalgamator	320,937	June 30	2700	716 717	31	1572
Karges, William H., and C. E. Smith, St. Louis, Mo. Lantern	314,383	Mar. 24	1817	488 489	30	1141
Karnatz, John C., and W. Wiese, Forest Glen, Ill. Stamp-puller	319,796	June 9	1094	271	31	1246
Karr, Carl, administrator. (See Oettel, Carl.)						
Karr, James M., Almond, N. Y. Potato-planter	321,439	July 7	33	9	32	9
Karwiese, Gustavus A., New York, N. Y. Expansion-flange connection	332,906	Dec. 22	2402	635	33	1448
Kastner, Joseph. (See Kinne and Kastner.)						
Katon, Walter, North Attleborough, Mass. Thrill-coupling	312,125	Feb. 10	898	244	30	523
Katz, J. Harman, Pittsburg, Pa. Apparatus for supplying natural gas to locomotives	331,716	Dec. 1	707	175	33	1123
Kaufeld, Elias, et al. (See Unger, Charles, assignor.)						
Kaufeld, Elias, Pittsburg, Pa. Apparatus for crushing and grinding malt and other vegetable substances	314,850	Mar. 31	2462	650	30	1285
Kaufeld, Elias, assignor of one-half to T. Miller, Pittsburg, Pa. Combined malt-cutter and vegetable-crusher	320,877	June 23	2611	692	31	1530
Kaufeld, Elias, assignor of one-half to T. Miller, Pittsburg, Pa. Apparatus for boiling and cooling mash	325,091	Aug. 25	2920	639	32	973
Kaufer, Theodore L., Boston, Mass. Electric battery	328,948	Oct. 27	1907	498	33	369
Kaufer, Theodore L., Boston, assignor to W. B. H. Dowse, trustee, Newton, Mass. Electric battery	338,687	Oct. 20	1559	406	33	298
Kaufman, Jacob W., Miamisburg, Ohio. Tobacco-hiller	319,727	June 9	1025	271	31	1246
Kaufhold, Henry A. and C. Steiny, Scranton, Pa. Locking-plate for table-legs	323,582	Aug. 4	258	76	32	570
Kaufmann, Charles, New York, N. Y. Paper wreath	315,795	Apr. 14	1138	298	31	213
Kaufmann, Ernst. (See Reinhardt, Wilhelm, assignor.)						
Kaufmann, Peter, Hudson, Ill. Automatic grain measure and register	319,822	June 9	1161	307	31	1270
Kaul, Charles. (See Kaul, Pins and C.)						
Kaul, Pins and C., assignors of one-third to E. Zeitz, Lancaster, Pa. Watch-regulator	322,185	July 14	1060	274	32	201
Kautz, Christian N., et al. (See Wise, William P., assignor.)						
Kavanaugh, Frank, Harrisburg, Texas. Metallic compound	323,496	Aug. 4	54		32	533
Kay, Edward, assignor of one-half to S. Beswick, Philadelphia, Pa. Lubricator for eccentrics	317,373	May 5	601	154	31	633
Kay, Edward, assignor of one-half to S. Beswick, Philadelphia, Pa. Clutch	318,259	May 19	1775	474	31	867
Kay, F. G., et al. (See Smith, John, assignor.)						
Kay, James I. (See Nightengale, William O., assignor.)						
Kay, James I., et al. (See Smith, John, assignor.)						
Kay, James I., Allegheny, Pa. Gas-conduit	329,568	Nov. 3	900	53	33	543
Kaye, Walter E. (See Brown, Fred H., assignor.)						
Kaylor, Mark B., Philadelphia, Pa. Cider-mill	323,041	July 28	2227	589	32	427
Kays, Thomas, Newton, N. J., assignor to Lawson Non-Explosive Boiler Company, New York, N. Y. Steam-boiler	315,511	Apr. 14	738	195 196	31	139
Kays, Thomas, Newton, N. J., assignor to Lawson Non-Explosive Boiler Company, New York, N. Y. Safety-valve	318,748	May 26	2435	652	31	996
Kayser, Adolf, assignor of two-thirds to A. B. Young and H. Williams, Buffalo, N. Y. Making sodium carbonate	330,256	June 16	1750		31	1382
Kayser, Charles. (See Kayser, William J. and C.)						
Kayser, Isaac, et al. (See Meisner, John, assignor.)						
Kayser, John, Kaiserslautern, Bavaria, Germany. Sewing-machine	312,862	Feb. 24	1914	525	30	726
Kayser, William J. and C., Milwaukee, Wis. Chimney cap and ventilator	330,794	June 23	2604	663	31	1530
Kayser, William J. and C., Milwaukee, Wis. Chimney cap and ventilator	321,729	July 7	423	113	32	79
Keagle, Edward T., Marseilles, Ill. Medicament-retainer for horses' feet	330,241	Nov. 10	1094	289	33	722
Keas, Alexander L., Elizabeth, N. J. Sleeping-car seat	317,142	May 5	284	72	31	575
Kearney, Frank B., assignor of one-half to D. E. Spencer and G. Powers, Grand Rapids, Mich. Tonguing and grooving machine	313,000	Feb. 24	2088	569	30	757
Kearney, James, North Springfield, Mo. Engineer's valve for fluid-pressure brakes	325,092	Aug. 25	2300	633	32	973
Kearney, John H. (See Beecher, Thomas, assignor.)						
Kearney, Michael, Springfield, and M. C. Hawley, St. Louis, Mo. Furnace	313,939	Mar. 17	1246	394	30	1094
Kearney, Patrick D., South Bend, Ind. Vehicle-axle	316,041	Apr. 7	77	18	31	15
Kearns, John C., Maitland, Pa. Horseshoe-nail	322,542	July 21	1526	402	32	294

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Kearns, Patrick, Philadelphia, Pa. Lever attachment for hand-shears	315,295	Apr. 7	431	109	31	78
Kearns, William D., Pittsburg, Pa. Splint	315,512	Apr. 14	741	196	31	138
Keating, John G., Newark, N. J. Manufacture and ornamentation of medallions, &c.	317,143	May 5	285	72	31	575
Keating, Alphonso S., Corry, Pa. Money drawer and recorder	327,175	Sept. 29	2655	691	32	1528
Keating, Alphonso S., Corry, Pa. Cash-recorder	327,176	Sept. 29	2658	691	32	1528
Keating, John. (See Oakley, John M., assignor.)						
Keating, Robert M., Springfield, Mass. Attaching door-knobs to spindles	321,818	July 7	563	147	32	104
Keating, Robert M., Springfield, Mass. Knob attachment	325,545	Sept. 1	445	110	32	1101
Keavy, Thomas E., assignor of one-half to W. I. Caris, Kent, Ohio. Button-fastener	318,432	Apr. 21	2003	526	31	374
Keavy, Thomas E., assignor of one-half to W. I. Caris, Kent, Ohio. Button-locating machine	396,567	Sept. 22	1784	468	32	1367
Keck, John E., New York, N. Y. Base for cheese-covers	320,141	June 16	1606	425	31	1355
Keck, Peter S., and J. J. Schadt, Allentown, Pa. Fire-escape	332,255	Dec. 15	1493	391	33	1379
Kedney, Andrew J., Ayer, Mass. Piano-stool	321,113	June 30	2939	779	31	1614
Keefe, James B., Brooklyn, N. Y. Paper-filing implement	318,990	June 2	79	20	31	1062
Keckh, Milton, and J. Laberde, Gouverneur, N. Y. Reach for wagons	332,024	Dec. 8	1246	325	33	1229
Keefe, James B., Delaware, Ohio. Snap-hook	315,796	Apr. 14	1139	299	31	211
Keegan, Paul T., Albany, Wis. Gate	330,662	June 23	2348	621	31	1499
Keeler, David L., Grand Rapids, Mich. Pitman for sewing-machines	314,949	Mar. 24	1634	432	30	1106
Keeler, David L., Grand Rapids, Mich. Tension device for sewing-machines	328,688	Oct. 20	1561	406	33	898
Keeler, Henry, Oskaloosa, Kans. Aggregate cube	332,956	Dec. 15	1494	391	33	1279
Keeler, Henry C., Ordan, Utah Ter. Automatic weighing-scale	311,010	Jan. 20	1107	303	30	218
Keeler, Hiram P., Philadelphia, Pa. Sconner for knives and forks, metal, and glass	311,249	Jan. 27	1454	397	30	286
Keeler, Lafayette S., Hokah, Minn. Railway foot-guard	325,746	Sept. 8	719	179	32	1154
Keeler, Noah, Wallace, N. Y. Potato-digger	327,882	Oct. 6	481	126	33	85
Keeler, William H., Buffalo, N. Y. Hand-stamp	321,223	June 30	3072	815	31	1640
Keeley, David H., Ottawa, Ontario, and A. A. E. Garvey, Montreal, Quebec, Canada. Quadruplex and duplex telegraph	331,975	Dec. 8	1063	282	33	1201
Keelyn, Peter F., Racine, Wis. Wire-clamp	332,347	Dec. 15	1612	423	33	1301
Keen, Charles B., Philadelphia, Pa. Store-service apparatus	311,328	Jan. 27	1572	428	30	309
Keen, Charles P., assignor to R. J. Keen, Leesburg, Ohio. Liniment	327,883	Oct. 6	482		33	85
Keen, Horace F., assignor of one-fourth to J. Champion, Philadelphia, Pa. Cap for chimneys and smoke-stacks	318,749	May 26	2437	653	31	196
Keen, Orlando, Allentown, Pa. Shaft-tug	329,569	Nov. 3	202	53	33	543
Keen, Rebecca J. (See Keen, Charles P., assignor.)						
Keenan, Matthew, Armagh Works, Tredegar Road, North Bow, county of Middlesex, England. Boiler-covering	331,409	Dec. 1	219	57	33	1037
Keenan, William J., Boston, and E. M. Wilson, Worcester, Mass. Fire-alarm signal	333,131	Dec. 29	2724	715 716	33	1511
Keene, George A., Lynn, Mass. Hub-attaching device	317,144	May 5	286	73	31	575
Keene, George A., Lynn, Mass. Floor-mop	331,641	Dec. 1	601	148	33	1103
Keep, Oliver H., New York, N. Y. Waste-pipe for wash-basins, bath-tubs, &c.	317,373	May 5	602	154	31	633
Keiss, John D., Quincy, Ill. Roller-skate	326,224	Sept. 15	1344	348	32	1277
Kegler, William, Bellevue, Iowa. Chain-pump	331,689	Dec. 8	957	248	33	1177
Kehoe, Thomas, Knoxville, Tenn. Shelf for stoves	313,940	Mar. 17	1248	325	30	1024
Kehrer, William. (See Walsh, William M., assignor.)						
Keightley, Walter E. (See Fletcher and Keightley.)						
Keim, O. A. (See Schimpf, William, assignor.)						
Keiper, Henry B., Lancaster, Pa. Device for converting motion	316,789	Apr. 28	2307	655	31	474
Keiper, Martin, et al. (See Ruset, Charles F., assignor.)						
Keiser, Andrew. (See Metherell and Keiser.)						
Keith, Charles E., Bridgeport, Conn. Hackling-machine	318,750	May 26	2137	653	31	996
Keith, David W., West Warren, Mass. Nail-plate feeder	321,114	June 30	2939	779	31	1614
Keith, George, Harmon, Ill. Tie-laying machine	327,274	Sept. 29	2775	720	32	1550
Keith, George W., and G. C. Sutherland, Toronto, Ontario, Canada; said Sutherland assignor to said Keith. Cigar-holder	311,497	Feb. 3	50	15	30	358
Keith, Jeremiah, Florence, Mass. Connecting buttons to cloth or other material	330,407	Nov. 17	1329	354	33	774
Keith, Jeremiah, assignor to Florence Machine Company, Northampton, Mass. Sewing-machine shuttle	322,321	July 14	1304	340	32	248
Keith, Rexel, Washington, D. C. Egg-holder	325,935	Sept. 8	944	239	32	1197
Keith, Rexel, Washington, D. C. Egg-carrier	325,936	Sept. 8	945	240	32	1197
Keith, Stephen P., assignor of one-half to J. J. Eargle, Alexander, Tex. Slat-fastening	322,322	July 14	1306	341	32	248
Keith, Thomas K. (See Woodward and Keith.)						
Keizer, Lewis R. (See Painter, William, assignor.)						
Keichner, Sylvester W., Fowlersville, Pa. Potato-digger	331,505	Dec. 1	351	85	33	1061
Keicher, John M., Newark, Ohio. Anti-friction bearing	317,652	May 12	973	251	31	709
Kelleher, William H., assignor of one-half to B. F. Anthony, Boston, Mass. Street-car pole	328,121	Oct. 13	801	209	33	151
Keller, Charles. (See Hoeveler and Keller.)						
Keller, Ernest. (See Leger and Keller.)						
Keller, Friedrich, Milwaukee, Wis. Window	314,683	Mar. 31	2218	529	30	1240
Keller, Friedrich, Milwaukee, Wis. Inside blind	317,797	May 12	1162	308 309	31	744
Keller, Friedrich, Milwaukee, Wis. Inside blind, &c.	317,798	May 12	1165	309	31	744
Keller, Friedrich, Milwaukee, Wis. Ventilator	318,912	May 26	2658	704	31	1035
Keller, Jacob C. (See Anderson and Keller.)						
Keller, Jeremiah, Sandusky, Ohio. Lawn-mower	330,714	Nov. 17	1711	462	33	849
Keller, Jeremiah, assignor to W. F. Converse, Sandusky, Ohio. Hay-tedder	311,991	Feb. 10	723	198	30	489
Keller, Jeremiah, assignor to O. Kromer, Sandusky, Ohio. Harvester	330,713	Nov. 17	1709	461 462	33	849
Keller, John F., Shepherdstown, W. Va. Draft mechanism for grain-drills	313,341	Mar. 3	431	109	30	856
Keller, John F., Shepherdstown, W. Va. Fertilizing grain-drill	318,478	May 26	2066	558 559	31	929
Keller, John F., Shepherdstown, W. Va. Fertilizer-distributor. (Reissue)	10,640	Aug. 25	2484	682	32	1007
Keller, John F., Shepherdstown, W. Va. Grain-drill	326,748	Sept. 22	2066	537	32	1416
Keller, John F., Shepherdstown, W. Va. Boot for seeding-machines. (Reissue)	10,649	Oct. 6	616	161	33	112
Keller, Louis. (See Daran, Dominique L., assignor.)						
Keller, Warren, assignor to himself and A. Lard, St. Joseph, Mo. Circular sawing machine	318,260	May 19	1776	475	31	867
Keller, William N., assignor to himself, L. T. Hibbs, and G. R. Callahan, Philadelphia, Pa. Elevated cable gravity-road	318,627	May 26	2273	606 607	31	965
Kellermann, Emil, Cincinnati, Ohio. Manufacture of wire-coated articles	310,441	Jan. 6	358	98	30	69
Kelley, Charles H. (See Perkins and Kelley.)						
Kelley, Charles H., et al. (See Bingham, Charles W., Jr., assignor.)						
Kelley, Charles H., Revere, assignor to C. E. Kimball, Lynn, Mass. Tool-holding attachment for lathes	318,261	May 19	1777	475	31	868

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Kelley, Charles H., Revere, assignor of one-half to F. C. Perkins, Somerville, Mass. Cash-carrier	318,282	May 19	1778	475	31	888
Kelley, Charles H., Revere, assignor of one-half to F. C. Perkins, Somerville, Mass. Cash-carrier	318,283	May 19	1779	476	31	888
Kelley, Charles H., Revere, assignor of one-half to F. C. Perkins, Somerville, Mass. Tool-holder for lathes	332,806	Dec. 22	2258	595	33	1422
Kelley, David D., Yarmouth, Mass. Package-wrapper	310,206	Jan. 6	62	16	36	14
Kelley, George W., assignor to L. H. and J. M. Noble, Goshen, Ind. Carpet-sweeper	330,590	Nov. 17	1554	416	33	817
Kelley, Isaac M., Imperial, Pa. Manufacture of cooke	332,613	Dec. 15	1990	521 522	33	1386
Kelley, Martin. (See Kelley, William, assignor.)						
Kelley, Samuel. (See Turner, John W., assignor.)						
Kelley, Thomas. (See Bowen, Edmund J., assignor.)						
Kelley, William, assignor of one-half to M. Kelley, West Florence, Ohio. Roller-skate	325,937	Sept. 8	947	240	32	1198
Kelley, William S., Smithville, N. J. Bicycle	321,819	July 7	564	147 148	32	104
Kelley, William S., Smithville, N. J. Bicycle	321,932	July 7	716	187	32	130
Kellner, Carl. (See Ritter and Kellner.)						
Kellner, Charles. (See Ritter and Kellner.)						
Kellogg & Bulkley Company. (See Fenn, Wallace T., assignor.)						
Kellogg, Charles, Buffalo, N. Y. Machinery for rolling tubes	324,117	Aug. 11	957	263 264	32	708
Kellogg, Charles, Buffalo, N. Y. Manufacturing tubing	324,118	Aug. 11	960	264 265	32	709
Kellogg, Charles, assignor to W. C. Donn, D. W. Burt, and R. Taylor, Buffalo, N. Y. Tube-rolling machine	325,938	Sept. 8	947	240 241	32	1198
Kellogg, Elijah, Reno, Nev. Sheep-shears	323,691	Aug. 4	405	116	32	598
Kellogg, Frank, Brooklyn, N. Y. Wagon-jack	321,115	June 30	2941	760	31	1615
Kellogg, Fortunatus G., Winnipeg, Manitoba, Canada. Lubricator for steam-cylinders	314,630	Mar. 17	1358	353	30	1046
Kellogg, Harry W., Greenfield, Mass. Instantaneous shutter for cameras	315,296	Apr. 7	432	109	31	78
Kellogg, Henry, New Haven, Conn. Electrical insulator	315,633	Apr. 14	916		31	171
Kellogg Newspaper Company, A. N. (See Pratt, Edwin E., assignor.)						
Kellogg Newspaper Company, A. N. (See Pratt and Partridge, assignors.)						
Kellogg, William P. (See McPherson, Henry, assignor.)						
Kellogg, William P., Troy, N. Y. Curry-comb	327,695	Oct. 6	260	65	33	46
Kellow, Joseph, Pen Argyl, Pa. Rail-joint	318,169	May 19	1684	451	31	850
Kells, C. Edmund, Jr., New Orleans, La. Electric thermostat	322,612	July 21	1625	430	32	311
Kells, Charles E., Jr., New Orleans, La. Electric bell	313,941	Mar. 17	1249	325	30	1025
Kells, Edward, Cleveland, Ohio. Combined filler and faucet	318,479	May 26	2071	559	31	930
Kells, Edward, Cleveland, Ohio. Combined filler and faucet	326,747	Sept. 22	2065	537	32	1416
Kells, Edward, Cleveland, Ohio. Can-faucet	328,038	Oct. 13	691	168	33	139
Kells, Jacob M., Adrian, Mich. Steam oscillating valve	312,126	Feb. 10	898	244 245	30	523
Kells, Ross, Cleveland, Ohio. Car-wheel	324,705	Aug. 18	1776	490	32	866
Kells, Ross, assignor to Paige Car Wheel Company, Cleveland, Ohio. Car-wheel	325,177	Aug. 25	2410	662	32	923
Kells, Thomas, Brooklyn, N. Y. Belt-fastener	310,442	Jan. 6	359	98	30	70
Kelly, Alexander C. (See Freeman, Augustus M., assignor.)						
Kelly, Alexander C., et al. (See Freeman, Augustus M., assignor.)						
Kelly, Archibald, assignor to Hopkins & Dickinson Manufacturing Company, Newark, N. J. Lock	326,507	Sept. 15	1705	445	32	1344
Kelly, Charles J., Denver, Colo. Banjo	332,538	Dec. 15	1888	493	33	1247
Kelly, David L., Buffalo, N. Y. Rotary pump	314,851	Mar. 31	2463	651	30	1226
Kelly, Frederick H. (See Bartlett, Marcus J., assignor.)						
Kelly, Frederick H. (See Wilcox, William E., assignor.)						
Kelly, George A., assignor to Longview Kelly Plow Manufacturing Company, Longview, Tex. Plow	321,324	June 30	3074	815 816	31	1640
Kelly, George B., Boston, Mass. Reed-organ	321,890	July 7	573	148	32	105
Kelly, Henry and J., Osage, Iowa. Pawl and ratchet for chain-pumps	324,329	Aug. 11	1262	343	32	706
Kelly, James, et al. (See Kelly, John, assignor.)						
Kelly, John, et al. (See Pretschold, Hugo, assignor.)						
Kelly, John, Peoria, Ill. Governor for steam-engines	322,456	July 21	1411	369	32	273
Kelly, John, assignor of two-thirds to T. and J. Kelly, Chicago, Ill. Water-cock and air-vent	313,081	Mar. 3	56	15	30	728
Kelly, John P., Biddeford, assignor of one-half to G. Moore, Berwick, Me. Device for holding boots or shoes	330,902	Nov. 24	1960	531	33	901
Kelly, John T., Sr., Jonesborough, N. C. Turbine water-wheel	328,314	Oct. 13	1039	269	33	197
Kelly, Joseph. (See Kelly, Henry and J.)						
Kelly, Lawrence A., Dayton, Wash. Ter. Pump	326,434	Sept. 15	1621	424	32	1322
Kelly, Michael, assignor of one-half to T. Rosevear, New York, N. Y. Barbed-wire fence	322,108	July 14	939	249	32	183
Kelly, Oliver W., and L. F. Dieter, assignors to Springfield Engine and Thresher Company, Springfield, Ohio. Traction-engine	310,443	Jan. 6	359	99	30	70
Kelly, Oliver W., and L. F. Dieter, Springfield, Ohio. Horse-power	329,394	Oct. 27	2575	663 664	33	429
Kelly, Patrick J., and J. Groves, Brooklyn, N. Y. Adjustable reamer	321,116	June 30	2942	760	31	1615
Kelly, Peter, Syracuse, N. Y. Gas-governor	331,890	Dec. 8	950	248	33	1178
Kelly, Thomas, et al. (See Kelly, John, assignor.)						
Kelly, Timothy F., assignor, by mesne assignments, to said Timothy F. Kelly and M. R. Gately, Boston, Mass. Canteen	321,730	July 7	425	113	32	79
Kelly, Wallace C., Hastings, Mich. Curtain-fixture	322,907	Dec. 22	2404	635	33	1448
Kelly, William A. (See Watson and Hubbell, assignors.)						
Kelly, William C., Louisville, Ky. Ax	327,375	Sept. 29	2777	721	32	1550
Kelly, William E., New Brunswick, N. J. Press for forming heels for india-rubber boots or shoes	319,266	June 2	402	106 107	31	1124
Kelly, William E., New Brunswick, N. J. Grate	331,141	Nov. 24	2276	617	33	960
Kelly, William H., New York, N. Y. Folding book-rack	318,991	June 2	79	20	31	1092
Kelsey, Frank N., assignor of one-half to J. B. Rathburn, New Haven, Conn. Railway block signaling apparatus	324,119	Aug. 11	962	265	32	709
Kelsey, George R. (See Bassett, Marshall L., assignor.)						
Kelsey, George R., West Haven, Conn. Manufacture of buckles	316,790	Apr. 28	2508	655	31	474
Kelsey, George R., West Haven, Conn. Apparatus for bending the hinge ends of buckles	317,374	May 5	603	154	31	633
Kelsey, George R., West Haven, Conn. Machine for making buckle-frames	323,155	July 28	2372	629	32	456
Kelsey, Henry, Concord, Kans. Creaming-can	317,544	May 12	634	214	31	622
Kelsey, Jarvis E., assignor to West Haven Buckle Company, West Haven, Conn. Die for swaging buckle-frames	323,156	July 28	2374	629	32	456

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Kelso, Clarence Z., et al. (See Cox, Joseph J., assignor.)						
Kelso, Robert, Philadelphia, Pa. Woven-wire bustle.....	323,692	Aug. 4	406	116	32	509
Kelting, George T., Washington, D. C. Combined collar-button and necktie-fastener.....	316,044	Apr. 21	1474	385	31	280
Kelton, John C., San Francisco, Cal. Sight-protector for fire-arms.....	313,212	Mar. 3	254	64	30	894
Kelton, John C., San Francisco, Cal. Magazine-gun.....	313,213	Mar. 3	255	64	30	894
Kelton, John C., San Francisco, Cal. Feed-case for magazine-guns.....	322,244	Nov. 24	2427	657	33	967
Kelton, John C., San Francisco, Cal. Cartridge-pouch.....	331,891	Dec. 8	960	948	33	1178
Kelton, John C., San Francisco, Cal. Check-attachment.....	331,899	Dec. 8	961	948	33	1178
Kelton, John C., San Francisco, Cal. Safety-stop for fire-arms.....	323,416	Dec. 29	3108	810	32	1579
Kemerer, Lorenzo D., Scranton, Pa. Car-coupling.....	326,040	Sept. 8	1067	277	32	1322
Kemery, William, Massillon, Ohio. Portable fence.....	321,978	July 14	779	203	32	150
Kemp, Lewis G., and P. Ross, Frederick, Md. Grain-binder.....	331,142	Nov. 24	2278	618	33	960
Kemp, William. (See Thomson and Kemp.)						
Kempe, Harry R. (See Alabaster, Gatehouse, and Kempe.)						
Kemper, Frank, and J. H. Stumps, St. Florian, Ala. Cultivator.....	314,136	Mar. 17	1497	390	30	1071
Kempf, Theodor, assignor to Chemische Fabrik auf Actien, Berlin, Germany. Manufacture of iodoform, bromoform, and chloroform.....	322,940	July 28	2075		32	400
Kempf, Theodor, assignor to Chemische Fabrik auf Actien, Berlin, Germany. Manufacturing permanganates.....	326,657	Sept. 22	1913		32	1389
Kempshall, Eleazer, New Britain, assignor to Kempshall Patent Button Fastener Company, Derby, Conn. Button-fastener.....	310,524	Jan. 6	456	196	30	88
Kempshall, Eleazer, New Britain, assignor to Kempshall Patent Button Fastener Company, Derby, Conn. Button-setting instrument.....	310,525	Jan. 6	457	196	30	88
Kempshall, Eleazer, assignor to American Button Fastener Company, New Britain, Conn. Button-setting instrument.....	310,830	Jan. 13	854	232	30	168
Kempshall, Eleazer, assignor, by mesne assignments, to American Button Fastener Company, New Britain, Conn. Button-fastener.....	314,684	Mar. 31	2219	590	30	1240
Kempshall, Eleazer, assignor to American Button Fastener Company, New Britain, Conn. Button-fastener packing-case.....	323,315	Oct. 13	1040	269	33	197
Kempshall Patent Button Fastener Company. (See Kempshall, Eleazer, assignor.)						
Kempster, Daniel E., Boston, Mass. Copying-press.....	322,039	Oct. 13	692	182	33	132
Kempster, Daniel E., Boston, Mass. Thill-coupling.....	331,642	Dec. 1	602	149	33	1103
Kempster, Daniel E., Boston, Mass. Elevator for cash-carriers.....	332,065	Dec. 8	1247	325	33	1220
Kempster, Daniel E., Boston, Mass. Cash and parcel carrier.....	332,539	Dec. 15	1889	494	33	1347
Kempster, Daniel E., Boston, assignor of one-half to S. Frost, Newton, Mass. Roller-skate.....	321,979	July 14	780	203	32	150
Kendall, Anna, St. Louis, Mo. Soap for restoring color to plushes, velvets, &c.....	319,097	June 2	204		31	1086
Kendall, Edward D., Brooklyn, N. Y. Recovering sulphuric anhydride.....	323,583	Aug. 4	259	76	32	570
Kendall, Elton P., and A. S. Voe, Windsor, Vt. Beading-tool.....	326,435	Sept. 15	1022	424	32	1329
Kendall, John L., Brooklyn, N. Y., assignor to himself and R. H. Trested, Greenville, N. J. Hat frame and body.....	327,373	Sept. 29	2774	790	32	1550
Kendall, Wallace A., and F. R. Glover, Framingham, Mass. Thill-coupling.....	310,207	Jan. 6	62	17	30	14
Kendrick, Dyer T., Providence, R. I. Camera-tripod joint.....	318,480	May 26	2072	559	31	930
Kendrick, Isaac, Philadelphia, Pa. Gas-burner.....	325,747	Sept. 8	720	179	32	1155
Kengel, Joseph, Detroit, Mich. Vehicle-spring.....	320,316	Oct. 27	2448	634	33	468
Kenly, Benjamin F., Baltimore, Md. Dredge-shooting blind.....	315,297	Apr. 7	434	109	31	78
Kenna, Joseph W., assignor to W. I. Bunker and C. L. Miller, Chicago, Ill. Platform rocking-chair.....	313,429	Mar. 3	543	143	30	878
Kenna, Thomas M., New Haven, Conn. Sash-pulley.....	329,317	Oct. 27	2449	634	33	468
Kennedy, David R., Ware, Mass. Roving-can.....	314,685	Mar. 31	2221	590	30	1240
Kennedy, David, assignor to Kennedy & Greig, Detroit, Mich. Elevator.....	315,634	Apr. 14	917	240	31	171
Kennedy, E. S. T. (See Hasleton, Milton W., assignor.)						
Kennedy, Edward S. T. (See Allen, Henry F., assignor.)						
Kennedy, Edward S. T., New York, N. Y. Steam-boiler.....	329,911	Nov. 10	660	169	33	636
Kennedy, Edward S. T., New York, N. Y. Marine boiler.....	329,912	Nov. 10	661	169	33	636
Kennedy & Greig. (See Kennedy, David, assignor.)						
Kennedy, Hugh, and J. W. Higge, Sharpsburg, assignors to Pittsburg Mineral Wool Company, Etina, Pa. Manufacture of mineral wool.....	322,226	Oct. 13	931	242	33	177
Kennedy, Hugh, and J. W. Higge, Sharpsburg, assignors to Pittsburg Mineral Wool Company, Etina, Pa. Apparatus for manufacturing mineral wool.....	322,227	Oct. 13	933	242	33	177
Kennedy, James M. R., Dushville, Mich. Attachment for flour-bolts.....	314,137	Mar. 17	1496	301	30	1071
Kennedy, John V. (See Desmond, John, assignor.)						
Kennedy, Joseph R., Philadelphia, Pa. Ruler attachment for slates.....	320,142	June 16	1606	425	31	1355
Kennedy, Lewis B., St. Louis, Mo. Brick-machine.....	325,939	Sept. 8	949	241	32	1196
Kennedy, Lewis B., St. Louis, Mo. Brick-machine.....	325,940	Sept. 8	953	242	32	1199
Kennedy, Madison B. (See Cook, George W., assignor.)						
Kennedy Manufacturing Company, S. R. (See Kennedy, S. Ridgway, assignor.)						
Kennedy Manufacturing Company, S. R. (See Kennedy, Samuel R., assignor.)						
Kennedy, Michael, Troy, N. Y. Weighing-scale.....	317,947	May 12	1360	365	31	782
Kennedy, Robert W., assignor to Jones & Laughlins, (limited,) Pittsburg, Pa. Colling metal rods.....	310,526	Jan. 6	458		30	89
Kennedy, S. Ridgway, Philadelphia, Pa., assignor to S. R. Kennedy Manufacturing Company, Camden, N. J. Removing hair as a substitute for shaving.....	330,790	Nov. 17	1810		33	866
Kennedy, Samuel R., Philadelphia, Pa., assignor to S. R. Kennedy Manufacturing Company, Camden, N. J. Composition for removing hair.....	330,715	Nov. 17	1712		33	849
Kennedy, Samuel R., Philadelphia, Pa., assignor to S. R. Kennedy Manufacturing Company, Camden, N. J. Tablet for use in removing hair.....	330,716	Nov. 17	1714	462	33	849
Kennedy, Samuel V., assignor to Minneapolis Harvester Works, Minneapolis, Minn. Discharging mechanism for grain-binders.....	316,550	Apr. 28	2162	568	31	411
Kennedy, Sylvester, Gap, Pa. Automatic brake for wagons and carriages.....	326,658	Sept. 22	1913	602	32	1389
Kennedy, Thomas, Philadelphia, Pa. Stopper for fruit-jars, &c.....	320,364	June 16	1939	511	31	1414
Kennedy, Thomas, Philadelphia, Pa. Overflow for bath-tubs, sinks, &c.....	331,064	Nov. 24	2160	586	33	940
Kennedy, Thomas, Philadelphia, Pa. Pump.....	331,976	Dec. 8	1088	282	33	1201
Kennedy, William B., Silver Reef, Utah Ter. Combination-tool.....	326,297	Sept. 15	1450	378	32	1298
Kennedy, William B., and W. M. Nesbit, Silver Reef, Utah Ter. Calculator.....	323,157	July 28	2376	630	32	457
Kennerley, George, and B. Creighton, Paterson, N. J. Transfer-paint.....	312,474	Feb. 17	1395		30	623
Kenney, Augustus R., San Francisco, Cal. Ice-machine.....	322,829	July 21	1909	507	32	363
Kenney Electrical Cash Carrier Company. (See Kenney, Thomas M., assignor.)						
Kenney, Martin V. B., Cushman, Ill. Hay-derrick.....	321,821	July 7	575	149	32	96
Kenney, Thomas M., assignor to C. A. Mason, Cambridge, Mass. Door-check.....	312,127	Feb. 10	899	245	30	523
Kenney Thomas M., Boston, Mass., assignor to Kenney Electrical Cash Carrier Company, Portland, Me. Cash system.....	329,050	Oct. 27	2070	538	33	396

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Kennedy, Thomas M., and F. E. Mason, Cambridge, Mass. Cash-carrier	311,011	Jan. 20	1108	303	30	219
Kennedy, Thomas M., and F. E. Mason, Boston, Mass. Cash-carrier	331,245	Nov. 24	2428	658	33	867
Kenny, Patrick. (See Edison and Kenny.)						
Kensington Chair Company. (See Parks, Dana, assignor.)						
Kent, Alonzo F., New York, N. Y., assignor to New York Bottlers' Supplies Manufac-						
ing Company, (limited.) Bottle-stopper	315,797	Apr. 14	1139	289	31	214
Kent, Artemas A., Denver, Colo. Ore-concentrator	312,863	Feb. 21	1918	525	30	727
Kent, Haxham P., assignor to himself and T. W. Rounds, Providence, R. I. Check-rein						
clasp	316,370	Apr. 21	1913	506	31	359
Kent, Huxham P., Providence, R. I. Toe-weight	390,305	June 16	1939	511	31	1414
Kent, James. (See Padon, James L., assignor.)						
Kent, Milton A. (See Mead, Albert G., assignor.)						
Kent, Milton A. (See Mead and Pierce, assignors.)						
Kent, Robert, Brooklyn, N. Y. Roll for bending plate metal	325,077	Sept. 8	614	{ 155 156 }	32	1136
Kent, Thomas E., San Francisco, Cal. Method of strengthening garments	326,749	Sept. 22	2067	537	32	1416
Kent, William, Jersey City, N. J. Steam-boiler	317,653	May 12	974	251	31	708
Kent, William, Jersey City, N. J. Furnace	320,563	June 23	2214	586	31	1474
Kent, William, Jersey City, N. J. Blowing-engine	323,427	Aug. 4	54	14	32	533
Kent, William, Jersey City, N. J. Making headers for water-tube boilers	324,700	Aug. 18	1778	491	32	668
Kent, William, Jersey City, N. J. Water-tube boiler	326,900	Sept. 29	2403	628	32	1484
Kent, William, Jersey City, N. J. Steam-boiler	330,126	Nov. 10	958	{ 248 249 }	33	694
Kent, William, Jersey City, N. J. Tube-sheet for steam-boilers	330,127	Nov. 10	960	249	33	695
Kent, William, Jersey City, N. J. Connecting-box for water-tube boilers	330,128	Nov. 10	961	249	33	695
Kent, William, Jersey City, N. J. Making connecting-boxes for water-tube boilers	330,129	Nov. 10	961	{ 249 250 }	33	695
Kent, William V. (See Cargill and Kent.)						
Kenyon, James. (See Crossley, James, assignor.)						
Kenyon, John W., New York, N. Y., assignor to G. H. Clarke, Montclair, N. J. Low-wa-						
ter alarm	318,913	May 26	2660	705	31	1035
Kenyon, John W., New York, N. Y., assignor to G. H. Clarke, Montclair, N. J. Low-						
water alarm	329,176	Oct. 27	2242	581	33	429
Kenyon, John W., Brooklyn, assignor to G. H. Clarke, Port Washington, N. Y. Pressure-						
regulator	329,177	Oct. 27	2243	581	33	429
Kenyon, John W., Brooklyn, assignor of one-third to F. Thompson, New York, N. Y.						
Steam-trap	331,246	Nov. 24	2430	658	33	967
Kepler, Joseph W. (See Stevens, John L., assignor.)						
Kepper, Benjamin, Philadelphia, Pa. Automatic screen chute, gate, coal-bin, &c.	325,343	Sept. 1	149	41	32	1043
Keppel & Co., Frederick. (See Fontaine, Allen S., assignor.)						
Kepperling, Henry B. (See Porter and Kepperling.)						
Kerbaugh, Joseph D. (See Parkinson, John H., assignor.)						
Kern, Alfred, Basle, Switzerland, and C. L. Müller, Ludwigshafen-on-the-Rhine, assignors						
to Badische Anilin and Soda Fabrik, Mannheim, Germany. Production of blue dye-						
stuffs	337,833	Oct. 6	579	430	33	104
Kern, George W., Chillicothe, Ohio. Fire-escape	322,613	July 21	1626	430	32	311
Kern, Theodore, Kokomo, Ind. Vaginal syringe	317,375	May 5	605	155	31	634
Kern, Xavier, Jr. (See Hammer and Kern.)						
Kerner, John C., St. Louis, Mo. Fire-proof building material	313,501	Mar. 10	642	30	905	
Kerner, Marion H., New York, N. Y. Bottle for ink	328,122	Oct. 13	802	209	33	152
Kernochan, Frank D., Middletown, N. Y. Thill-coupling	321,036	June 30	2233	754	31	1527
Kernodle, John W., Winston, N. C. Churn	332,614	Dec. 15	1992	522	33	1366
Kerr, Alexander, assignor of two-thirds to R. Costigan and W. Keys, Montreal, Quebec,						
Canada. Low-water alarm for steam-boilers	333,231	Dec. 29	2263	748	33	1535
Kerr, Frank L., Alexandria, Ind. Shoe-box indicator	323,042	July 28	2228	569	32	427
Kerr, James, London, England. Portable railway and tramway	316,629	Apr. 28	2262	505	31	429
Kerr, Thomas B. (See Stubbe, John, assignor.)						
Kerrin, Patrick, executor. (See Cullen, Thomas.)						
Kerstetter, James L., Bradford, Pa., assignor of one-half to S. H. Altice, Bolivar, N. Y.						
Bread-cutter	328,228	Oct. 13	934	243	33	177
Kessler, William, East Ringgold, Ohio. Tire-setter	316,298	Apr. 7	435	109	31	79
Kessler, Solomon, Liberty, Kans. Meat-tenderer	311,701	Oct. 10	505	163	30	466
Kessel, John A., Buffalo, N. Y. Speaking-tube	326,568	Sept. 22	1785	468	32	1368
Kessel, John A., assignor to himself and J. Richert, Buffalo, N. Y. Fastener for rubber						
shoes	317,654	May 12	976	232	31	708
Kessel, John A., assignor to himself and J. Richert, Buffalo, N. Y. Rubber-shoe fastener						
Kessel, John A., Buffalo, assignor of one-half to C. M. Van Sicken, New York, N. Y. De-						
vice for exhibiting hosiery	312,717	Dec. 1	708	175	33	1123
Kesselring, Friedrich, Philadelphia, Pa., assignor to J. C. McCreery, New York, N. Y.						
Take-up mechanism for looms	312,128	Feb. 10	900	{ 245 246 }	30	523
Kesselring, Friedrich, Athenia, N. J., assignor to C. McCreery, New York, N. Y. Shuttle-						
driving mechanism for looms	332,400	Dec. 15	1689	443	33	1313
Kessler, Frederick C. and H., St. Louis, Mo. Vegetable grater	332,008	Dec. 22	2405	635	33	1448
Kessler, Henry. (See Kessler, Frederick C. and H.)						
Ketcham, Alonzo R., Buffalo, N. Y. Stop-cock box for water and gas pipes	332,401	Dec. 15	1683	443	33	1314
Ketcham, J. Wesley, Greenport, assignor of one-half to C. J. Bishop, Orient, N. Y. Re-						
inforcing band for spars	314,535	Mar. 24	2026	540	30	1179
Ketchum, Joseph, Jr., Brooklyn, N. Y. Separator	314,453	Mar. 24	1907	509	30	1158
Ketchum, Joseph, Brooklyn, N. Y. Producing artificial respiration	320,009	June 16	1503	399	31	1339
Ketchum, Joseph, Brooklyn, N. Y. Apparatus for producing artificial respiration	320,070	June 16	1505	399	31	1339
Kettell, James F., Worcester, Mass. Magneto call-box	331,718	Dec. 1	708	175	33	1122
Kettell, James F., deceased, Worcester, S. J. Kettell administratrix, and assignor of one-						
fourth to C. W. Sherburne, Boston, Mass. Electric device for setting clocks	333,132	Dec. 29	2727	716	33	1512
Kettell, James F., deceased, Worcester, S. J. Kettell administratrix, and assignor of one-						
fourth to C. W. Sherburne, Boston, Mass. Electric device for setting clocks	333,133	Dec. 29	2729	717	33	1512
Kettell, Sarah J., administratrix. (See Kettell, James F.)						
Kettinger, Peter, Defiance, Ohio. Barrel-hoop machine	324,707	Aug. 18	1778	491	32	889
Kettinger, William A. (See Fontaine, Eugene, assignor.)						
Kettinger, William A., Defiance, Ohio. Wood-turning lathe	324,847	Aug. 25	1977	543	32	913
Kettmann, Hermann, Eschershausen, Brunswick, Germany. Manufacturing asphaltic						
powder suitable for paving	310,594	Jan. 13	560	30	113	
Keyes, Benjamin B., Chelsea, Mass. Tool holder for lathes	332,066	Dec. 8	1250	326	33	1230
Keyes, E. T., et al. (See Kimball, Charles M., assignor.)						
Keys, Frank W., assignor of one-half to D. Dull, New York, N. Y. Hod-elevator	333,134	Dec. 29	2731	717	33	1512

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Keys, John. (See McVeety, Alexander, assignor.)						
Keys, William, et al. (See Kerr, Alexander, assignor.)						
Keyser, John H., New York, N. Y. Heating-stove	325,678	Sept. 8	615	156	32	1136
Keyworth, Thomas, assignor of one-half to E. Davis, Brooklyn, N. Y. Apparatus for flushing the bowls of water-closets	311,587	Feb. 3	173	49	30	381
Kiam, Benjamin, Houston, Tex. Bed-clothes clamp	318,914	May 26	2661	705	31	1035
Kibele, August, Weissenfels, Germany. Insufflator	310,444	Jan. 6	361	99	30	70
Kidd, Joshua, Fern Bank, Wandsworth Common, county of Surrey, England. Apparatus for manufacturing non-luminous heating-gas	332,067	Dec. 8	1251	326	33	1230
Kidd, Walter J., Newark, N. J. Apparatus for regulating the admixture of carbureted and uncarbureted gas for illuminating purposes	332,068	Dec. 8	1254	326	33	1231
Kidder, Charles L., New Brunswick, N. J., assignor to Bergmann & Co., New York, N. Y. Exhaust-muffle	330,242	Nov. 10	1095	290	33	732
Kidder, George R., assignor of two-thirds to J. S. Ferguson and W. W. Black, Imlay City, Mich. Spoke-tensioning machine	326,508	Sept. 15	1707	445	32	1345
Kidder, George W. (See Palmer and Kidder.)						
Kidder Manufacturing Company, Jerome. (See Kidder, William K., assignor.)						
Kidder, Moses W., Lincoln, assignor of one-half to J. S. Rice, Cambridge, Mass. Chimney cap or ventilator	316,898	Apr. 28	2663	694	31	503
Kidder, Richard E., Worcester, Mass. Circular sawing machine	315,513	Apr. 14	742	196	31	138
Kidder, William K., assignor to J. Kidder Manufacturing Company, New York, N. Y. Galvanic battery	310,831	Jan. 13	855	232	30	168
Kieffer, Joseph, Montreal, Quebec, Canada. Counter-stiffener for boots or shoes	312,129	Feb. 10	902	246	30	524
Kierulff, Charles C., Starke, Fla. Planter	332,080	Dec. 8	1255	326	33	1231
Kies, Dominick. (See Kies, Nicholas and D.)						
Kies, Nicholas and D., Chicago, Ill. Table	312,731	Feb. 24	1735	477	30	695
Kieselhorst, John A., St. Louis, Mo. Piano-pupil's monitor	313,502	Mar. 10	644	167	30	905
Kieser, Charles, Baltimore, Md. Draft-equalizer	311,838	Feb. 3	466	133	30	440
Kilborn, Chauncey W., South Vineland, N. J. Sand-washing machine	314,652	Mar. 31	2465	651	30	1286
Kilborn, Eugene A., Cedar Rapids, Iowa. Folding basket	323,339	July 28	2643	703 704	32	504
Kilbourn, S. E. (See Tourgee and Jennings, assignors.)						
Kilbourne & Jacobs Manufacturing Company. (See Hubbard, Fred W., assignor.)						
Kilbourne, S. E. (See Tourgee and Jennings, assignors.)						
Kilbourne, S. E., et al. (See Tourgee, Albion W., assignor.)						
Kiler, Charles M. (See Kiler, George W. and C. M.)						
Kiler, George W. and C. M., Indianapolis, Ind. Fence-post	319,823	June 9	1163	307	31	1270
Kilgore, Isaac P., West Point, Ill. Snow-plow flange	332,348	Dec. 15	1613	423	33	1301
Killam, Henry, New Haven, Conn. Carriage-axle	315,209	Apr. 7	436	110	31	79
Killebrew, Samuel, Brownsville, Tenn. Hame-fastener	327,177	Sept. 29	2661	691	32	1529
Killey, Robert T., Tres Pinos, Cal. Running-gear for vehicles	324,109	July 14	960	249	32	183
Killip, John, assignor of one-half to H. C. Bair, Allegheny City, Pa. Steam-governor	318,120	May 19	1598	427	31	824
Killip, John, assignor of one-half to H. C. Bair, Allegheny, Pa. Steam-governor	320,478	June 23	2106	555	31	1454
Killmer, Reuben W., Terre Haute, Ind. Piston-rod packing	324,776	Aug. 18	1872	515	32	807
Kilmer, Irving A., Schenectady, N. Y. Register	323,340	July 28	2644	704	32	504
Kilmer, Irving A. and M. D., Schenectady, N. Y. Barbed fence-rail	317,799	May 12	1166	309	31	744
Kilmer, Melvin B. (See Kilmer, Irving A. and M. D.)						
Kimball, Charles E. (See Kelley, Charles H., assignor.)						
Kimball, Charles M., Bradford, Mass. Crimping machine	331,795	Dec. 8	816	207	33	1151
Kimball, Charles M., assignor of two-thirds to E. T. Keyes, Toledo, and P. Dowling, Holland, Ohio. Water-elevator	318,915	May 26	2662	705	31	1035
Kimball, Charles P., Chicago, Ill. Buggy-body	316,970	Apr. 21	1778	468	31	335
Kimball, Charles R., et al. (See Young, Harlan P., assignor.)						
Kimball, Charles W., assignor of one-half to R. Y. Whelpley, Chicago, Ill. Machine for covering hose with wire	330,332	Nov. 10	1209	333 324	33	745
Kimball, Edmund, Brunswick, N. Y. Fruit-picker	325,546	Sept. 1	446	111	32	1101
Kimball, George E., Franklin, Mass. Device for stretching card-clothing	327,705	June 23	2505	664	31	1530
Kimball, Hiram A., Philadelphia, Pa. Heat-generating gas-burner	323,713	Aug. 4	552	157	32	627
Kimball, James L., New London, Mo. Rail-joint for railways	314,686	Mar. 31	2921	590	30	1241
Kimball, John, Boston, Mass. Measurement-indicator of boot and shoe lasts	331,143	Nov. 24	2279	618	33	961
Kimball, Lavirgne J. (See Masters and Kimball.)						
Kimball, Le Vert (See Bell, William, assignor.)						
Kimball, Orrin A. (See Gramer, Joseph, assignor.)						
Kimberlin Manufacturing Company. (See Davis, Calvin R., assignor.)						
Kimble, James E., Vicksburg, Mich. Thrashing-machine	326,991	Sept. 29	2404	628	32	1424
Kimble, James E., assignor of one-third to R. E. Kimble, Vicksburg, Mich. Steam-engine	330,494	Nov. 17	1430	385	33	795
Kimble, Ransom E. (See Kimble, James E., assignor.)						
Kimbro, Jerrymirah H. and J. A., Georgetown, Tex. Planter	315,635	Apr. 14	918	241	31	171
Kimbro, John A. (See Kimbro, Jerrymirah H. and J. A.)						
Kimmell, Theodore A., Kansas City, Mo. Fire-escape ladder	319,824	June 9	1164	307	31	1270
Kinard, Witt C., and M. J. Maddox, Towaliga, Ga. Plow	331,410	Dec. 1	320	57	33	1037
Kincaid, James, St. Louis, Mo. Feed-distributor for roller-mills	314,687	Mar. 31	2222	590	30	1241
Kind, Clement, Addington, Canterbury, New Zealand, assignor to C. B. Taylor, San Francisco, Cal. Die for the manufacture of sheet-metal hollow ware	321,822	July 7	575	149	32	106
Kindblade, Bennett, Batavia, Ill. Roller-skate	329,913	Nov. 10	662	169	33	636
Kindleberger, Jefferson, assignor of one-half to A. W. Scott, Los Angeles, Cal. Clinometer	313,872	Mar. 17	1144	298	30	1006
King, Benjamin H., et al. (See Bates, Albert J., assignor.)						
King, Charles F., Covington, Pa. Combined grinding-mill, bolt, and purifier	324,473	Aug. 18	1452	397	32	878
King, Charles F., Covington, Pa. Bolting-reel	332,090	Dec. 8	1237	327	33	1231
King, Charles G. (See Fish and King.)						
King, Charles W., Lyndhurst, N. J., assignor to himself and H. W. Sullivan, Brooklyn, N. Y. Skate	331,977	Dec. 8	1069	283	33	1202
King, Chester E., Phenix, R. I. Stop-motion for railway-heads	327,696	Oct. 6	281	65	33	46
King, Francis. (See Reilly and King.)						
King, Francis M. and W. E., Wilmington, N. C. Fertilizer-distributor and planter	310,208	Jan. 6	63	17	30	14
King, Frank S., West Brimfield, Mass. Elevator	316,152	Apr. 21	1634	427	31	310
King, Frank T., Brooklyn, N. Y. Apparatus for distilling	328,316	Oct. 13	1041	269	33	197
King, Frederick M. (See Brown and Porter, assignors.)						
King, George D., assignor to Wood Board Manufacturing Company, Oswego, N. Y. Machine for forming and driving wire staples	325,611	Sept. 1	520	130 131	32	1114
King, George E. (See King, George P., assignor.)						
King, George H. (See Millard and King.)						
King, George H., et al. (See Millard, Martin S., assignor.)						
King, George H., Salisbury, assignor of two-thirds to W. H. H. Tainter, Kansas City, and M. Jordan, Hermann, Mo. Window	339,651	Nov. 3	303	77, 78	33	562

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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King, George P., St. Thomas, Ontario, Canada, assignor of one-half to G. E. King, Detroit, Mich. Car-wheel	311,434	Jan. 27	1718	467	30	336
King, George S., Pittsburg, Pa. Device for keeping ice off the sterns of vessels	328,229	Oct. 13	935	243	33	177
King, George W. (See Huber and King)						
King & Hamilton Co. (See King and Gilman, assignors.)						
King, Henry D., Nevada, Mo. Washing-machine	315,300	Apr. 7	438	110	31	79
King, Henry F., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Button-worker	329,746	Nov. 3	432	110	33	586
King, Hiram T., Rochester, N. Y. Sash-fastening	330,786	June 23	2506	664	31	1530
King, Hiram T., Rochester, N. Y. Wrench	330,797	June 23	2508	664	31	1530
King, Homer A., Springfield, Mass. Velocipede	327,397	Sept. 29	2943	768	32	1579
King, Homer A., Springfield, Mass. Velocipede	327,954	Oct. 6	580	151	33	104
King Iron Bridge and Manufacturing Company. (See Phipps, Henry P., assignor.)						
King, James M., Rochester, Minn. Wild pea and oat separator	325,093	Aug. 25	2301	633	32	974
King, John, et al. (See Cusson, Joseph, assignor.)						
King, John, Medway, Mass. Car-starter	321,225	June 30	3075	816	31	1641
King, John D., assignor of one-half to W. P. Freeman, Fairbury, Nebr. Artificial stone	312,352	Feb. 17	1235		30	533
King, John M., New York, N. Y. Reel seat and band	333,135	Dec. 29	2732	717	33	1513
King, Joseph D. (See Roberts, Henry P., assignor.)						
King, Julius. (See Burt, Lou, assignor.)						
King, Leander, Georgetown, Ohio. Brake-shoe clamp	316,630	Apr. 28	2262	595	31	429
King, Molesworth, Chicago, Ill. Fire-place	329,747	Nov. 3	433	110	33	586
King, Nelson, and H. B. Lester, assignors to Blake & Johnson, Waterbury, Conn. Machine for making nails	333,417	Dec. 29	3109	811	33	1579
King, Orson. (See McCandless and King.)						
King, Osman S., Painesville, Ohio. Car-coupling	311,012	Jan. 20	1111	303	30	219
King, Osman S., Painesville, Ohio. Car-coupling	315,514	Apr. 14	744	197	31	139
King, Peter O., Valley City, Dak. Ter. Snow-plow	321,301	June 30	3167	844	31	1658
King, Phineas F., St. Louis, assignor to himself and A. S. Wolf, Kansas City, Mo. Nail-extractor	313,599	Mar. 10	766	202	30	928
King, Simeon D., Rolling Prairie, Ind. Portfolio	326,750	Sept. 22	2068	538	32	1416
King, Singleton L., Indianapolis, Ind. Lounge	313,491	June 9	709	190	31	1188
King, Solomon E., and J. H. Gilman, assignors to King & Hamilton Co., Ottawa, Ill. Corn-sheller	330,495	Nov. 17	1440	385	33	795
King, Theodore E. (See Hammond and King.)						
King, Theodore E., et al. (See Chapman, Samuel A., assignor.)						
King, Thomas P., Chester, Ill. Machine for pricking boot and shoe heels	315,636	Apr. 14	920	241	31	171
King, Thomas S., Atlanta, Ga., and C. E. Stivers, Chattanooga, Tenn. Seat-spring for vehicles	314,138	Mar. 17	1499	301	30	1072
King, Thomas S., Atlanta, Ga., and C. E. Stivers, Chattanooga, Tenn. Wagon bolster-spring	314,139	Mar. 17	1499	301	30	1072
King, Victor A. (See Greene, J. Durell, assignor.)						
King, Walter G., Cleveland, Ohio. Polariscopes	324,560	Aug. 18	1564	432	32	829
King, William A. (See Randall and King.)						
King, William E. (See King, Francis M., and W. E.)						
King, William H. (See Kannaley, John P., assignor.)						
King, William H., Little Silver, N. J. Land-marker	312,130	Feb. 10	902	246	30	524
King, William H., assignor of one-half to W. L. Reynolds, St. Louis, Mo., and J. Tunnell, Belleville, Ill. Barb-wire machine	313,741	Mar. 10	955	247	30	903
King, William W., assignor of one-half to W. Somerville, St. Louis, Mo. Electric arc lamp	316,791	Apr. 22	2509	655	31	474
Kingery, Samuel S., Cincinnati, Ohio. Coffee-roaster	328,949	Oct. 27	1908	499	33	370
Kinman, Roldon P. (See Robinson, Charles J., assignor.)						
Kingsbury, Charlie H., Jamaica, Vt. Treadle	310,666	Jan. 13	672	166	30	135
Kingsford, Thomson. (See Stiker, Flavius P., assignor.)						
Kingsland, Allan B., Burlington, Vt. Adjustable stove-pipe thimble	313,342	Mar. 3	432	109	30	256
Kingsland & Ferguson Manufacturing Company. (See Parkhurst, Darius, assignor.)						
Kingsland & Ferguson Manufacturing Company. (See Reeder, William S., assignor.)						
Kingsley, Joseph, Carrollton, Md. Coal-scuttle	314,454	Mar. 24	1908	500	30	1159
Kingston, E. S. (See Kingston, William, assignor.)						
Kingston, Edward S., Little Falls, assignor to G. A. Reynolds, Utica, N. Y. Last for boots or shoes. (Reissue)	10,630	July 28	2709	721	32	516
Kingston, Frank, St. Johns, county of Kent, England. Machine for cutting, bundling, and tying wood	328,155	Dec. 8	1354	351	33	1247
Kingston, Paul, Hastings, Minn. Life-preserver	328,230	Oct. 13	936	244	33	178
Kingston, William, Little Falls, assignor to E. S. Kingston, Utica, N. Y. Making last-patterns of graduated sizes	317,948	May 12	1382		31	722
Kinkaid, Thomas W., U. S. Navy. Lubricator	327,398	Sept. 29	2945	769	32	1579
Kinley, Daniel R., Marion, Iowa. Bureau	321,037	June 30	2634	754	31	1597
Kinnard, William M., Dayton, Ohio. Index-book	320,798	June 23	2559	664	31	1530
Kinne, William, and J. Kasner, Holton, Kans. Cultivator-shovel	332,156	Dec. 8	1357	352	33	1248
Kinnear, Peter. (See Loftis, John, assignor.)						
Kinnear, William E., Fremont, Ohio. Combined harrow, cultivator, and clod-crusher	329,748	Nov. 3	434	110	33	587
Kinney, Adelbert T., Cleveland, Ohio. Smoke-consuming furnace	315,145	Apr. 7	216	53	31	39
Kinney, Isaac N., et al. (See Miller, Benjamin F. D., assignor.)						
Kinney, Israel, Windsor, Ontario, Canada. Metallic fencing	312,864	Feb. 24	1921	596	30	727
Kinney, James, Woodland, Cal. Canning apparatus	331,065	Nov. 24	2162	587	33	940
Kinney, Lyman T. (See Kinney, Norman L., assignor.)						
Kinney, Norman L., Barford, Quebec, Canada, assignor to L. T. Kinney, Grand Rapids, Mich. Machine for sprinkling potato-vines	330,130	Nov. 10	962	250	33	695
Kinney, Samuel G., et al. (See Lenhardt, George, assignor.)						
Kinney Tobacco Company. (See Butler, William H., assignor.)						
Kinsman, Frank E., Plainfield, N. J. Electric fire-arm	317,545	May 12	835	215	31	682
Kinsman, Frank E., New York, N. Y. Combined annunciator and alarm	330,903	Nov. 24	1961	531	33	901
Kinsman, Henry M., et al. (See Hakes, George B., assignor.)						
Kinter, John H., Indiana, Pa. Gate	320,257	June 16	1751	465	31	1382
Kintner, Simon A., Ney, Ohio. Threshold	313,742	Mar. 10	957	247	30	964
Kintz, George W. and H. E., West Henrietta, N. Y. Potato-digger	317,546	May 12	836	215	31	683
Kintz, H. Elmore. (See Kintz, George W. and H. E.)						
Kintz, Joseph, Ballard Vale, Mass. Extension-chandelier	321,508	July 7	122	34	32	25
Kintz, Thomas J., et al. (See Wheeler, Henry H., assignor.)						
Kinzer, George H., Grant's Pass, Oreg. Locomotive journal-box	332,157	Dec. 8	1358	353	33	1248
Kinzer, Jacob, Pittsburg, Pa. Car-door fastening	313,357	Feb. 17	1236	340	30	593
Kinzer, Jacob, Pittsburg, Pa. Car-door lock	312,358	Feb. 17	1237	340	30	593

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Kinzer, William P. <i>et al.</i> (See Miller, Benjamin F. D., assignor.)						
Kious, Miles, and W. A. Morton, Le Roy, Kans. Gate-spring	327,445	Sept. 29	3002	784	32	1589
Kip, Frederick E., New York, N. Y. Railway-signal	328,950	Oct. 27	1910	499	33	370
Kipe, Charles L., Dilworthtown, assignor of one-half to B. J. Hampton, Lenni Mills, Pa. Ash-sifter	318,567	May 26	2206	590	31	953
Kipling, Ernest E., Roselle N. J. Artificial diamond	321,302	June 30	3108		31	1658
Kipper, Emil, Adams, Mass. Collar or cuff	322,729	July 21	1776	469	32	339
Kipper, Emil, Adams, Mass. Collar or cuff	330,838	Nov. 17	1871	506	33	878
Kipper, Emil, Adams, Mass. Coasting handles, &c.	323,469	Dec. 29	3180	830	33	1591
Kirby, James A., assignor of one-half to F. P. Purtell, Chicago, Ill. Car-door seal-lock	322,830	July 21	1911	509	32	364
Kirby, James A., assignor of one-half to F. P. Purtell, Chicago, Ill. Car-door seal-lock	322,831	July 21	1913	508	32	364
Kirby, James L., Boston, assignor to Colby Wringer Company, Highlandville, Mass. Clothes-wringer	329,051	Oct. 27	2072	538	33	398
Kirby, James L., Boston, assignor to Colby Wringer Company, Highlandville, Mass. Clothes-wringer	330,984	Nov. 24	2071	561	33	923
Kirby, Jeremiah, assignor to A. Lesperance and J. B. Neven, Marysville, Mont. Ter. Amalgam-strainer	315,637	Apr. 14	922	241	31	172
Kirby, John, Jr., Dayton, Ohio. Canopy for railway-car lamps	330,030	Nov. 10	823	211	33	666
Kirby, John, Jr., assignor to Dayton Manufacturing Company, Dayton, Ohio. Lamp	314,250	Mar. 24	1635	432 433 434	30	1106
Kirby, John, Jr., assignor to Dayton Manufacturing Company, Dayton, Ohio. Railway-car lamp	314,251	Mar. 24	1639	434	30	1107
Kirby, John M., and C. M. Littlejohn, Paeolet, S. C. Bedstead	317,376	May 5	605	155	31	633
Kirby, Josiah. (See Vehr and Kirby.)						
Kirby, Josiah, Cincinnati, Ohio. Bung-hole cutter	312,359	Feb. 17	1238	340	30	593
Kirby, Richard C. (See Woods, William A., assignor.)						
Kirby, Thomas, and R. Shea, Emmetsburg, Iowa. Combined hay rake and loader	319,267	June 2	403	107	31	1124
Kirchman, Herman L., Centerville, Iowa. Self-rolling car-wheel	314,140	Mar. 17	1500	391	30	1072
Kirchner, Louis, Newark, N. J. Bottle-stopper	329,652	Nov. 3	305	78	33	562
Kirk, John A., Washington, D. C. Social attachment for bicycles	317,377	May 5	606	155	31	634
Kirk, Peter, Workington, county of Cumberland, England. Manufacture of combined chair and sleeper	325,094	Aug. 25	2302	633	32	974
Kirk, Peter, Workington, county of Cumberland, England. Sleeper for permanent ways	323,874	Sept. 22	2246	585	32	1448
Kirk, Thomas H., Newton, Mass. Stair-pad	323,341	July 28	2345	704	32	504
Kirkaldy, John, Poplar, county of Middlesex, England. Condenser and heater	311,839	Feb. 3	466	133	30	440
Kirkaldy, John, West India Dock Road, county of Middlesex, England. Heating feed-water	324,120	Aug. 11	964	265 266	32	710
Kirkaldy, John, 40 West India Dock Road, county of Middlesex, England. Appliance for preventing dirt from passing into pipes	326,569	Sept. 22	1786	460	32	1368
Kirker, Milton B., Pittsburg, Pa. Whiffletree	324,848	Aug. 25	1978	544	32	913
Kirkland, Austin L., Pittsburg, Pa. Car-brake	329,840	Nov. 3	505	143	33	610
Kirkpatrick, David M., Kansas City, Mo., and M. J. French, Preston, Iowa; said Kirkpatrick assignor to said French. Oil-can	318,628	May 26	2275	607	31	966
Kirkpatrick, George W., Macedon, N. Y. Grain-drill tooth or hoe	322,717	Dec. 22	2152	568	33	1401
Kirkpatrick, Monroe, Smithville, Miss. Combined seed-planter and harrow	314,141	Mar. 17	1501	392	30	1072
Kirkpatrick, Thomas J., Springfield, Ohio. Bicycle-saddle	314,142	Mar. 17	1502	382	30	1072
Kirkpatrick, Wallace, Anna, Ill. Egg-tester	317,462	May 5	726	183	31	654
Kirkpatrick, William R., <i>et al.</i> (See Williams, Thomas D., assignor.)						
Kirks, Albert, Canton, Ohio. Safe-lock	323,158	July 28	2377	630	32	457
Kirks, Albert, assignor to Diebold Safe and Lock Company, Canton, Ohio. Lock	329,456	Nov. 3	34	10	33	511
Kirkwood, David, Boston, Mass. Breech-loading fire-arm	318,001	May 19	1445	387	31	805
Kirkwood, William, Guelph, Ontario, Canada. Radiator	313,062	Mar. 3	57	16	30	728
Kirwan, John, New York, N. Y. Sole-skiver	328,317	Oct. 13	1043	269	33	197
Kirwan, Thomas, Boston, Mass. Lock	312,547	May 12	838	215	31	683
Kisinger, Franklin P. (See Kisinger, George W., assignor.)						
Kisinger, George W., assignor of one-half to F. P. Kisinger, Danville, Ill. Reversible reflector	326,041	Sept. 8	1088	277	32	1222
Kisinger, William S., Bellevue, Ky., assignor of two-thirds to S. T. J. Coleman and E. B. Reynolds, Cincinnati, Ohio. Horseshoe-bender	320,258	June 16	1752	466	31	1392
Kitchen, George H., New York, N. Y. Transparent sign	313,343	Mar. 3	433	109	30	856
Kitchen, Joseph M. W., New York, N. Y. Exercising-chair	320,570	Nov. 3	203	53, 54	33	543
Kitchen, Joseph M. W., New York, N. Y. Exercising-chair	329,653	Nov. 3	306	78	33	563
Kitselman, Alva L., Ridgeville, Ind. Roller-skate	311,077	Jan. 20	1208	331	30	928
Kitselman, Alva L., Ridgeville, Ind. Roller-skate	322,323	July 14	1306	341	32	948
Kitselman, Alva L. and D. M., Ridgeville, Ind. Roller-skate	321,980	July 14	781	203	32	150
Kitselman Bros. <i>et al.</i> (See Phillips, Elwood C., assignor.)						
Kitselman, Davis M. (See Kitselman, Alva L. and D. M.)						
Kitson, John. (See Pearson and Kitson.)						
Kitson, John, assignor of one-half to J. H. Russell, Jersey City, N. J. Sewing-machine-cover fastener	323,342	July 28	2646	704	32	504
Kitson Machine Company. (See Clarke and Perham, assignors.)						
Kitson, Thomas, Stroudsburg, Pa. Cloth-guide for fulling-mills, &c.	329,457	Nov. 3	36	10	33	511
Kittle, Joseph, East Bend, N. C. Fertilizer-distributor	330,333	Nov. 10	1210	324	33	745
Kittle, Samuel P. (See Adgate and Kittle.)						
Kittler, Friedrich W. (See Schrader and Kittler.)						
Kittler, Julius W., assignor of four-fifths to C. J. Zipprich, H. Jacobs, J. Uhl, and H. Meyer, Peoria, Ill. Preparing whole grain for fermentation	330,334	Nov. 10	1212	324	33	746
Kittleston, Ole O., Sterling, Ill. Check-row line	316,792	Apr. 28	2510	655	31	474
Kittleston, Ole O., Rock Falls, Ill. Wire-barbing machine	318,002	May 19	1446	387 388	31	805
Kittoe, Edmund F., Chicago, Ill. Ventilator wheel or fan	329,052	Oct. 27	2073	538	33	398
Kittoe, Edmund F., assignor to Exhaust Ventilator Company, Chicago, Ill. Damper for shafts	322,832	July 21	1915	508	32	364
Kitton, John C., San Francisco, Cal. Ice-machine	311,013	Jan. 20	1112	304	30	920
Kitton, John C., San Francisco, Cal. Ice-machine	314,337	Mar. 24	1738	469	30	1130
Kizer, Isaac H., assignor of one-half to R. P. Waite, Riverside, Cal. Tree-prop.	324,777	Aug. 18	1874	515	32	887
Kizer, Isaac H., assignor of two-thirds to R. P. Waite, Riverside, and A. W. Eames, Los Angeles, Cal. Nail-extractor	329,909	Dec. 22	2405	635	33	1440
Kizer, William M., and C. W. Clink, Winfield, Mich. Rope-reel	329,053	Oct. 27	2075	539	33	399
Kjøbenhavn Høsteskofabrik. (See Andersen, Anders, assignor.)						
Klaeuer, William. (See Sell, Fred, assignor.)						
Klapper, Philipp C., Louisville, Ky. Window-ventilator	331,796	Dec. 8	817	207 208	33	1151

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.
			Spec.	Dr'g.	
Klander, John C., Philadelphia, Pa. Grain-drier.....	328,788	Oct. 20	1679	437	33 321
Klaus, Charles, Chicago, Ill. Pinch-bar.....	317,548	May 12	839	215	31 683
Klee, John, New York, N. Y. Fabric for wall-decoration.....	324,641	Aug. 25	2098	574	32 936
Klee, John, New York, N. Y. Paint.....	325,415	Sept. 1	269		32 1066
Klee, John B. (See Doetsch, Nicolaus, assignor.)					
Kleiman, Henry, Allegheny, Pa. Ejector-pump.....	310,896	Jan. 20	943	257	30 149
Klein, Carl, New York, N. Y. Saw-buck.....	321,823	July 7	577	150	32 106
Klein, Charles, Cape Girardeau, Mo. Motor.....	328,318	Oct. 13	1044	270	33 197
Klein, George N. (See Meurer and Klein.)					
Klein, John S., Oil City, Pa. Pipe-line cleaner.....	332,910	Dec. 22	2406	636	33 1449
Klein, Peter L., assignor of one-half to P. H. Müller, Düsseldorf, Prussia, Germany. Draw- ing and unburning device for carding-engines.....	318,121	May 19	1599	427 428	31 834
Klein, Philip H., Jr., assignor to Bergmann & Co., New York, N. Y. Combined gas and electric light fixture.....	311,131	Jan. 20	1282	332 333	30 251
Kleine, Friedrich, and W. F. Achter, Cedar Rapids, Iowa. Feeder for steam-boilers.....	321,981	July 14	782	204	32 150
Kleinert, Isaac B., New York, N. Y. Combined neck and ear protector.....	322,614	July 21	1627	420	32 311
Klemm, Louis R., Hamilton, Ohio. Relief map, chart, &c.....	320,564	June 23	2215	526	31 1474
Klenk, John, assignor of one-half to S. H. Haas, Philadelphia, Pa. Vehicle-coupling.....	324,474	Aug. 18	1453	397	32 806
Klenk, John and S. H. Haas, Philadelphia, Pa. Oar-lock.....	325,748	8 pt. 8	721	180	32 1155
Kleppinger, Joseph H., assignor of two-thirds to S. Newhart and C. Kuntz, Cherryville, Pa. Shaft-support.....	313,600	Mar. 10	767	202	30 729
Kletzer, Albert J., St. Louis, Mo. Calendar.....	323,939	Aug. 11	722	202	32 665
Klitzio, Anthony J., assignor of one-third to M. E. Sanders, Nanticoke, Pa. Supporting- case for vegetable-slicing machines.....	322,410	Oct. 13	1187	307	33 294
Kline, Harvey E. (See Kline, Reuben H. and H. E.)					
Kline, Reuben H., Spring City, and H. E. Kline, Royer's Ford, Pa. Device for releasing cattle from stalls.....	321,501	July 7	676	115	32 123
Kline, W. R., et al. (See Gilmer, Joseph, assignor.)					
Kline, William D. (See Solt, William, Sr., assignor.) (Reissue.)					
Kline, William H., Watertown, Pa. Step-ladder.....	319,728	June 9	1025	271	31 1346
Klinefelter & Dillman Company. (See Morrissey, James F., assignor.)					
Klingel, Joseph, Peoria, Ill. Condenser.....	322,615	July 21	1628	340	32 312
Klinker, Wesley, Union Mills, Iowa. Hay-stacker.....	311,853	Mar. 31	2466	622	30 1248
Klinkner, Charles A., Oakland, Cal. Inking-pad for hand-stamps.....	326,042	Sept. 8	1088	277	32 1223
Klopsch, Louis. (See Boda and Klopsch.)					
Klose, William, assignor to Manly & Cooper Manufacturing Company, Philadelphia, Pa. Wire fabric for fences, screens, &c.....	316,793	Apr. 28	2511	656	31 474
Klose, William F., Chicago, Ill. Machine for shaving printers' leads, slugs, &c.....	314,384	Mar. 24	1818	454	30 1142
Klostermann, William, Young America, Minn. Middlings-purifier.....	322,615	Dec. 15	1992	522	33 1376
Klostermann, William, Young America, Minn. Middlings-purifier.....	322,616	Dec. 15	1994	523	33 1306
Klotz, Christian F. (See Panse and Klotz.)					
Kluober, Louis, East New York, N. Y. Composition of matter for the production of slate.....	314,688	Mar. 31	2223		30 1241
Kluober, Louis, East New York, N. Y. Frame for slates.....	323,814	Aug. 4	553	157	32 627
Klug, Lewis E., Detroit, Mich. Lamp.....	328,492	Oct. 20	1253	333	33 249
Klump, David, Moorestown, N. J. Can-soldering machine.....	314,536	Mar. 24	2027	541	30 1178
Klusemann, William. (See Spier, Anton, assignor.)					
Klutts, Leonard P. (See Emmert and Klutts.)					
Knabe & Co., William. (See Polster, Ferdinand, assignor.)					
Knabe, Ernest, Jr., Baltimore, Md. Reciprocating electro-magnetic motor.....	322,296	July 14	1188	311 312	32 226
Knapp, Allen C. (See Whitlock and Knapp.)					
Knapp, Archibald, Strawtown, Ind. Hoof parer and evener.....	316,978	May 5	63	16	31 534
Knapp, Charles E., Brooklyn, N. Y. Matting and carpet binding.....	324,942	Aug. 25	2098	574	32 936
Knapp, Charles H., Paterson, N. J. Machine for reeling silk.....	312,865	Feb. 24	1922	526	30 727
Knapp, Chaucey L., et al. (See Cassidy, Jacob H., assignor.)					
Knapp, Edward, assignor of one-half to G. D. Barnard, St. Louis, Mo. Ruling-machine gate.....	329,458	Nov. 3	37	11	33 511
Knapp, Edward Y., Arcata, Cal. Lumber-measuring instrument.....	319,911	June 9	1283	339	31 1296
Knapp, George F., St. Louis, Mo. Folding barrel.....	312,475	Feb. 17	1396	385	30 623
Knapp, George W., et al. (See Fowler, William R., assignor.)					
Knapp, George W., Baltimore, Md. Bucket-handle.....	312,208	Feb. 10	1025	280	30 546
Knapp, George W., Baltimore, Md. Measure.....	325,842	Sept. 8	838	210	32 1176
Knapp, George W., assignor to W., J. W., N. G., and W. N. Numsen, Baltimore, Md. Cherry-seeding machine.....	330,839	Nov. 17	1872	506 507	33 878
Knapp, John C. (See Snyder and Knapp.)					
Knapp, John F. (See Taylor and Knapp.)					
Knapp, Thomas M., Tiffin, Ohio. Vegetable and meat slicer.....	331,411	Dec. 1	221	57, 58	33 1037
Knapp, Norman, Princeton, Ind. Fence.....	314,184	Mar. 17	1554	407	30 1081
Knauer, Charles, Plymouth, Wis. Feed-cutter.....	319,492	June 9	710	190	31 1188
Knauer, Charles H., Phoenixville, Pa. Bar for securing doors and shutters.....	313,942	Mar. 17	1250	325	30 1025
Knaus, Thomas E., Nelsonville, Ohio. Mining-machine.....	323,940	Aug. 11	723	202	32 666
Knauth, Gustav, Brooklyn, N. Y. Guard for carving-forks.....	319,098	June 2	205	54	31 1085
Knecht, Victor, Cincinnati, Ohio. Shaft-hanger.....	312,866	Feb. 24	1924	526	30 727
Kneeder, John A., Grant, Pa. Railway turn-table.....	319,825	June 9	1165	308	31 1280
Kneeder, John A., Grant, Pa. Thill-coupling.....	327,884	Oct. 6	482	126	33 86
Kneland, Joseph C., assignor to M. H. Spaulding, guardian, Northampton, Mass. Paper- feeding machine.....	326,124	Sept. 15	1196	305 306	32 1250
Kneland, Joseph C., assignor to M. H. Spaulding, guardian, Northampton, Mass. Fold- ing-machine.....	326,125	Sept. 15	1198	306	32 1250
Knepper, Samuel L., Findlay, Ohio. Fence-post.....	323,807	Dec. 22	2250	595	33 1422
Knetzer, Leonard, Du Quoin, Ill. Crimping-machine for boot or shoe uppers.....	323,815	Aug. 4	554	157	32 627
Knickerbocker Company. (See Finch, John M., assignor.)					
Knickerbocker Company. (See Morse, Orville M., assignor.)					
Knickerbocker Ice Company. (See Loring and Giles, assignors.)					
Knickmann, Henry, East New York, N. Y. Jeweler's cabinet.....	331,719	Dec. 1	710	176	33 1124
Kniesser, Adam J., Toledo, Ohio. Mechanism for reversing rotary motion.....	329,318	Oct. 27	2450	634	33 468
Kniifler, Bruno, Cleveland, Ohio. Centrifugal reel.....	325,509	Sept. 15	1709	446	32 1346
Kniifler, Bruno, Cleveland, Ohio. Flour-bolt.....	328,789	Oct. 20	1080	437	33 322
Knight, Charles A., and G. W. Thode, Glasgow, county of Lanark, Scotland, assignors to Babcock & Wilcox Company, New York, N. Y. Boiler-furnace.....	323,871	Aug. 4	625	176	33 641
Knight, Charles S. (See Townsend, Warren R., assignor.)					
Knight, Edwin L., Springfield, Mass. Slow-closing valve.....	319,268	June 2	405	107	31 1124
Knight, Frank C., and H. Docker, Philadelphia, Pa. Cartridge-shell.....	322,730	July 21	1776	469	32 339
Knight, Frank H. (See Knight and Proctor.)					
Knight, Margaret E., Ashland, Mass. Split.....	311,602	Feb. 3	268	74	30 398

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Knight, Samuel I. (See Graham, John D., assignor.)						
Knight, Samuel N., Sutter Creek, Cal. Hydraulic engine.	314,689	Mar. 31	2323	591	30	1241
Knight, Thomas L., New York, N. Y. Opera-chair	324,561	Aug. 18	1565	432 433	32	829
Knight, William H., Portland, Oreg. Car-coupling	331,066	Nov. 24	2162	587	33	941
Knight, William H. H., Washington, D. C. Portable furnace	320,759	June 23	2509	665	31	1531
Knight, William H. H., Washington, D. C. Portable furnace	320,800	June 23	2512	663 666	31	1531
Knight, William H. H. and F. H., and A. M. Proctor, Washington, D. C. Portable oven.	310,801	June 23	2514	666	31	1532
Knipe, Oliver C., Norristown, Pa. Metal-bending machine	310,286	Jan. 6	167	46	30	33
Knipe, William A., Haverhill, Mass. Polishing-wheel	317,800	May 12	1166	309	31	744
Knipe, William A., Haverhill, Mass. Machine-sewed boot or shoe	319,230	June 2	406	107	31	1124
Knipe, William A., Haverhill, Mass. Cleaning and brightening leather surfaces	320,279	June 16	1754	466	31	1383
Knoder, John, Auburn Ind. Horseshoe	314,563	Aug. 18	1568	453	32	820
Knobel, Thomas, East St. Louis, Ill. Druggist's safe	312,661	Dec. 15	2000	541	33	1378
Knoller, William M., Great Bend Village, Pa. Revolving waiter for dining-tables.	316,170	May 5	64	17	31	534
Knorp, Albr. F., San Francisco, Cal. Game-board	329,345	Oct. 27	2377	664	33	489
Knorr, Ernest R., Washington, D. C. Measuring distances and lengths on charts and drawings distorted by disproportionate contraction, and providing for their correct publication.	317,801	May 12	1167	210	31	744
Knous, Franklin F., assignor to Colts Patent Fire Arms Manufacturing Company, Hartford, Conn. Safety-lock for concealed-hammer guns	313,001	Feb. 24	2089	570	30	778
Knous, Franklin F., assignor to Colts Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine fire-arm	316,099	Apr. 28	2664	694	31	503
Knous, Franklin F., assignor to Colts Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine fire-arm	324,339	Aug. 11	1263	343	32	766
Knous, Franklin F., assignor to Colts Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine fire-arm	332,201	Dec. 8	1408	364	33	1257
Knous, John, assignor to Pope Manufacturing Company, Hartford, Conn. Velocipede-spring clip	311,188	Jan. 27	1366	374	30	272
Knous, John, assignor to Pope Manufacturing Company, Hartford, Conn. Velocipede-saddle	312,568	May 26	2207	590	31	953
Knous, John, assignor to Pope Manufacturing Company, Hartford, Conn. Velocipede	322,543	July 21	1327	403	32	294
Knous, John, and A. E. Wallace, assignors to Pope Manufacturing Company, Hartford, Conn. Bicycle-fork	312,732	Feb. 21	1736	477	30	695
Knous, John, and A. E. Wallace, assignors to Pope Manufacturing Company, Hartford, Conn. Making bicycle-forks	313,083	Mar. 3	58	16	30	778
Knowles & Brother, L. J. (See Burlingame, Eliza S., assignor.)						
Knowles & Brother, L. J. (See Hutchins, George F., assignor.)						
Knowles, Charles S., Philadelphia, Pa. Attachment for sewing-machines	314,600	Mar. 31	2254	591	30	1241
Knowles, Francis B., et al., executors. (See Knowles, Lucius J.)						
Knowles, Helen C., et al., executors. (See Knowles, Lucius J.)						
Knowles, Henry, Woodville, county of Leicester, England. Construction of kilns, pottery, or coke ovens, &c.	312,264	May 19	1760	476	31	868
Knowles, Henry, Woodville, county of Leicester, England. Continuous-action kiln for burning bricks, &c.	312,265	May 19	1762	476 477	31	869
Knowles, Henry, Woodville, county of Leicester, England. Oven or detached kiln for burning bricks, pottery-ware, &c.	312,266	May 19	1765	477 478	31	869
Knowles, Horace B., Providence, R. I. Embalmer's table	316,980	May 5	65	17	31	534
Knowles Loom Works. (See Hutchins, George F., assignor.)						
Knowles Loom Works. (See Wattie, William, assignor.)						
Knowles, Lucius J., deceased, Worcester, Mass., (F. B. Knowles and H. A. Marsh, executors.) West stop-motion for looms	321,226	June 30	3076	816 817	31	1641
Knowles, Lucius J., deceased, H. C. and F. B. Knowles and H. A. Marsh, executors, and assignors to F. B. Knowles, Worcester, Mass. Shuttle-box-operating device for looms	329,336	Oct. 27	2578	665	33	490
Knowles, William, assignor to himself and G. L. Ten Brook, Rockville, Ind. Kitchen-safe and flour-chest	325,416	Sept. 1	270	67	32	1066
Knowles, William H., Belmont, Ill. Land-roller	325,749	Sept. 8	723	180	32	1155
Knowles, William R. (See Arter and Knowles.)						
Knowlson, Abram B., et al. (See Benedict, Jacob, assignor.)						
Knowlton, Alec E., et al. (See Smith, Calvin D., assignor.)						
Knowlton, Augustus et al. (See Smith, Calvin D., assignor.)						
Knowlton, Augustus, West Gardner, Mass. Child's chair	325,178	Aug. 25	2411	682	32	993
Knowlton, Clark C., Buffalo, N. Y. Cigar-support	320,938	June 30	2702	717	31	1572
Knowlton, Henry, assignor of one-half to F. Johnson, West Bay City, Mich. Chain-gearing	327,446	Sept. 29	3003	784	32	1569
Knowlton, Henry C. (See McKnight and Knowlton.)						
Knowlton, Henry C., et al. (See Bates, Albert J., assignor.)						
Knowlton, Henry C., et al. (See Smith, Calvin D., assignor.)						
Knowlton, Homer W., Pecatonica, Ill. Wheelbarrow	314,185	Mar. 17	1554	407	30	1081
Knowlton, W. Irving. (See Nendel and Knowlton.)						
Knowlton, William A., Rockford, Ill. Mowing-machine	314,186	Mar. 17	1556	408	30	1082
Knowlton, William H., assignor to himself and A. Jones, Pottsville, Pa. Railway-tie	312,566	Feb. 17	1524	413	30	647
Knox, Augustus W., et al. (See Wetmore, William H., assignor.)						
Knox, David. (See Hodgkinson, Jabez, assignor.)						
Knox, David, Lynn, Mass. Leather-rolling machine	311,498	Feb. 3	51	15	30	359
Knox, David, Lynn, Mass. Leather-cutting machine	312,643	Feb. 24	1619	445	30	674
Knox, David, Lynn, Mass. Leather-cutting machine	317,463	May 5	726	184	31	654
Knox, Howard R., Bruce, Mich. Churn	332,349	Dec. 15	1614	424	33	1301
Knox, John L. L., Allegheny, Pa. Pneumatic railway-signal	323,422	Aug. 4	56	15	32	533
Knox, John L. L., Allegheny, Pa. Grate	331,067	Nov. 24	2163	507	33	941
Knox, John L. L., Allegheny, assignor to Knox Rock Blasting Company, Pittsburg, Pa. Tamping blast-holes	314,585	Mar. 31	2092	558	30	1217
Knox Rock Blasting Company. (See Knox, John L. L., assignor.)						
Knox, Sanford K., North Abington, Mass. Edge-trimmer for boots or shoes	312,360	Feb. 17	1239	341	30	593
Knox, William E., Springfield, assignor of one-half to J. P. Martindell, Clark County, Ohio. Hay-tedder	316,371	Apr. 21	1914	506	31	359
Knoxville Foundry and Machine Company. (See Höfer, Julius G., assignor.)						
Knudsen, Henry. (See Cole and Knudsen.)						
Knuth, Thomas H., New York, N. Y. Lace-fastener	320,260	June 16	1754	466	31	1383
Knutson Knut S., Denver, Dak. Ter. Horse-power	313,214	Mar. 3	257	65	30	824
Koch, Eberhard, New Orleans, La. Apparatus for distilling wood	316,794	Apr. 28	2511	656	31	474
Koch, John, Wheeling, W. Va. Refrigerator	320,802	June 23	2510	666	31	1532
Koch, Julius J. (See McGregory and Koch.)						
Koch, Julius J., and W. P. Grath, St. Louis, Mo. Cotton-seed linter	321,824	July 7	577	150	32	106

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Koch, Moris F., New York, N. Y. Automatic weighing-scale.....	314,854	Mar. 31	2467	{ 632 633 }	{ 30 }	1286
Koch, Peter, Parkville, Mich. Bee-cabinet.....	319,979	June 16	1388	365	31	1317
Koch, Philipp, New York, N. Y. Expansion-joint.....	322,457	July 21	1413	370	32	273
Koch, Philippe, Neuss, Germany. Belt-fastener.....	317,540	May 12	839	916	31	683
Koch, Walter E., Soulsbyville, Cal. Amalgamating apparatus.....	320,565	June 23	2216	546	31	1475
Koch, William, Lawrenceburg, Ind. Caster.....	312,733	Feb. 24	1736	478	30	685
Koch, William, New York, N. Y. Mechanical movement.....	315,639	Apr. 14	923	242	31	172
Koch, William, New York, N. Y. Quilting-machine.....	323,584	Aug. 4	261	76, 77	32	570
Kock, Charles, New York, and H. Kock, Brooklyn, N. Y. Pipe-case.....	310,287	Jan. 6	169	47	30	33
Kock, Christian H., Avoca, Iowa, assignor of four-fifths to R. Sehmer, P. Wiese, J. J. Hipsley, and F. A. Xanten. Lubricator for car-journals.....	315,638	Apr. 14	923	242	31	172
Kock, Christian H., Avoca, Iowa, assignor of three-fourths to E. F. Mulloy, Cook County, G. A. Woolley, M. McDermott, and W. D. O'Brien, Chicago, Ill. Car-axle box.....	331,893	Dec. 8	902	249	33	1178
Kock, Henry. (See Kock, Charles and H.)						
Koegel, Alois, Milwaukee, Wis. Lamp-extinguisher.....	314,252	Mar. 24	1640	435	30	1107
Koegel, Alois, Milwaukee, Wis. Sink-trap.....	326,126	Sept. 15	1200	306	32	1250
Koegel, William, and F. Strohecker, Freeport, Ill.; said Strohecker assignor to said Koegel. Milk-pail.....	325,179	Aug. 25	2413	663	32	994
Kochler, Heinrich, assignor to Gesellschaft für Stahlindustrie, Bochum, Prussia, Germany. Rolling-mill for tramway-rails.....	311,240	Jan. 27	1455	397	30	228
Koelner, John, Terre Haute, Ind. Flour-bolt.....	324,029	Aug. 11	839	232	32	687
Koenig, Frank, Philadelphia, Pa. Lamp-chimney guard.....	311,329	Jan. 27	1574	429	30	310
Koenig, George, Jr., Brooklyn, N. Y. Combined sofa-bed and chair.....	321,825	July 7	578	150	32	106
Koenig, Julian J., and A. M. Lee, Pomona, Ill. Stock-car.....	329,491	Nov. 3	500	144	31	610
Koenig, Maximilian J., Jersey Shore, Pa. Folding head-rest.....	319,960	June 16	1309	365	31	1317
Koepka, Henry E., St. Johnsbury, Vt. Washer-cutter.....	310,527	Jan. 6	450	126	30	89
Koethe, Henry, St. Louis, Mo. Bottle and can washer.....	330,335	Nov. 10	1213	325	33	746
Kozoschek, Franz, Hoboken, N. J. Fire-escape.....	325,150	Aug. 25	2414	661	32	994
Kohler, Elias, York, Pa. Check-rein hook.....	325,612	Sept. 1	522	132	32	1114
Kohler, Elias, York, Pa. Check-hook.....	325,613	Sept. 1	523	132	32	1115
Kohler, Frederick E., Canton, Ohio. Horse hay-fork.....	318,375	May 19	1938	523	31	897
Kohler, Frederick E., Canton, Ohio. Hay-tedder.....	318,376	May 19	1940	{ 523 524 }	{ 31 }	897
Kohler, Frederick E., Canton, Ohio. Post-hole digger.....	325,212	Aug. 25	2458	676	32	1002
Kohler, Frederick E., assignor of one-half to I. Harter, Canton, Ohio. Post-hole digger.....	327,557	Oct. 6	74	16	33	14
Kohler, Martin L. (See Irid, Peter E. assignor.)						
Kohlhof, Andreas, New York, N. Y. Lock.....	311,992	Feb. 10	724	198	30	450
Kohlrieger, Athanasius, Brooklyn, N. Y. Dumping-wagon.....	328,790	Oct. 20	1681	438	33	322
Kohn, Adolf, et al. (See Lautensack, Daniel, assignor.)						
Kohn, Lasrea, New York, N. Y. Culinary strainer.....	313,676	Mar. 10	662	225	30	948
Kührer, Wilhelm. (See Gühring and Kührer.)						
Kohn, William A. J., San Francisco, Cal. Electric engine.....	319,912	June 9	1225	339	31	1291
Koken, Ernest E., St. Louis, Mo. Barber's chair.....	323,429	Aug. 4	58	15	32	533
Kolb, Benedict J., North East, Pa. Stock and collar.....	330,131	Nov. 10	963	250	33	685
Kolb, George F., Philadelphia, Pa. Screw-driver.....	324,121	Aug. 11	966	266	32	710
Kolb, John H., assignor of one-third to W. J. Matheson, Brooklyn, N. Y. Utilizing the waste cuttings of flamed iron.....	322,833	July 21	1917	.....	32	365
Kollberg, Fredrick L., Chicago, Ill. Machine for flanging steam-boiler heads.....	317,145	May 5	227	73	31	578
Kollenberg, George A., Owensborough, Ky. Hand-truck.....	321,902	July 7	677	176	32	123
Kolzer, Joseph, Duisburg, Prussia, Germany. Telegraphic repeater.....	311,330	Jan. 27	1575	{ 420 430 }	{ 30 }	310
Komp, Albert, New York, N. Y. Bronzing-machine.....	311,189	Jan. 27	1367	{ 374 375 }	{ 30 }	272
Komp, John F., assignor to D. J. Davis and T. Rankin, Chicago, Ill. Butter-worker.....	328,411	Oct. 13	1188	307	33	925
Koon, William W., Houston, Tex. Washing-machine.....	330,640	Nov. 17	1676	507	33	878
Koneman, William A., Chicago, Ill. Elevator.....	319,090	June 2	206	54	31	1085
Koneman, William A., and H. H. Scoville; said Scoville assignor to A. F. Hatch, Chicago, Ill. Pulverizing apparatus.....	315,146	Apr. 7	217	53, 54	31	40
Koneman, William A., and H. H. Scoville; said Scoville assignor to A. F. Hatch, Chicago, Ill. Ore-concentrator.....	315,147	Apr. 7	220	54, 55	31	40
Koniakowsky, Alois M., Ellingen, Tex. Air-motor.....	322,616	July 21	1629	431	32	312
König, August, assignor to himself and G. L. Berghelm, Brooklyn, N. Y. Portable forge.....	312,029	May 26	2276	{ 607 608 }	{ 31 }	966
König, August, assignor to himself and G. L. Berghelm, Brooklyn, N. Y. Advertising-wagon.....	328,689	Oct. 20	1562	407	33	296
Konigslow, Otto, Cleveland, Ohio. Cartridge-loading machine.....	321,982	July 14	784	{ 204 205 }	{ 32 }	150
Konrad, Christian, Lacona, Iowa. Fence-wire stretcher.....	316,153	Apr. 21	1635	428	31	310
Konrad, Franz, Zacheren, near Dresden, assignor to himself and J. F. Notz, Dresden, Saxony, Germany. Composition for fireproofing fabrics.....	319,100	June 2	208	.....	31	1086
Koons, George B., Half Moon Bay, Cal. Pipe-tongs.....	321,032	June 30	2835	754	31	1597
Koons, Gerow, St. Louis, Mo. Steam washing-machine.....	326,875	Sept. 22	2246	586	32	1448
Koonsman, William P., et al. (See Grotenthaler, Joseph, assignor.)						
Koontz, John P., St. Louisville, Ohio. Car-coupling.....	328,040	Oct. 13	693	183	33	132
Koopmann, Ferdinand, Munich, Germany. Safety-belt.....	330,132	Nov. 10	964	250	33	685
Kopf, John, Brooklyn, N. Y. Fishing-reel.....	330,985	Nov. 24	1072	561	33	923
Kopf, John, assignor of one-half to T. B. Mills, Brooklyn, N. Y. Fishing-reel.....	312,180	May 19	1685	{ 451 452 }	{ 31 }	850
Kopf, John, assignor to T. B. Mills, Brooklyn, N. Y. Clamp for fishing-reels.....	333,232	Dec. 20	2964	748	33	1535
Kopf, Wilhelm, Santa Rosa, Cal. Saw-set.....	314,044	Mar. 31	2596	687	30	1309
Koplin, William, Youngstown, Ohio. Spike-blank.....	326,298	Sept. 15	1451	378	32	1298
Koplin, William, Youngstown, Ohio, assignor to Pullman Iron and Steel Company, Pullman, Ill. Spike-machine.....	319,587	June 9	840	{ 222 223 224 }	{ 31 }	1212
Kopp, George F. (See Bias and Kopp.)						
Kops, Samuel, Milwaukee, Wis., assignor to R. Messenger, New York, N. Y. Hammock and cradle stand.....	313,092	Feb. 24	2091	570	30	758
Korfhaage, Charles, Brooklyn, N. Y. Electric alarm-clock.....	322,110	July 14	961	250	32	183
Korn, George W. (See Nobeling, Gottfried A., assignor.)						
Kornban, Daniel, assignor of one-half to H. R. Shock, Philadelphia, Pa. Cable-conduit for underground cables.....	322,384	July 14	1309	341	32	249
Körting, Ernst, Hanover, Prussia, Germany. Heating apparatus.....	314,945	Mar. 31	2597	688	30	1309
Koschel, George G., Denver, Colo. Washing-machine.....	332,662	Dec. 15	2061	541	33	1378

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Koecialowski, Philip L., St. Louis, Mo. Carriage and wagon jack.....	318,992	June 2	80	81	31	1063
Koeka, Paul, Martinton, Ill. Handle for knives.....	324,563	Aug. 18	1568	433	32	830
Koekul, Frederick, Chicago, Ill. Open veneer ornamental work.....	311,014	Jan. 20	1114	304	30	820
Koekul, Frederick, St. Louis, Mo. Sofa.....	323,872	Aug. 4	627	176	32	641
Koes, Ludwig, Brooklyn, N. Y. Baby-mattress.....	321,983	July 14	769	205	32	152
Koesters, Theodore A. (See Fontaine and Koesters.)						
Kotiba, Joseph, St. Louis, Mo. Paint-solvent.....	328,569	Oct. 20	1417		33	273
Kountz, Joseph, Pittsburg, Pa. Purifying and odorizing natural gas.....	316,465	Apr. 23	2059	539	31	390
Kozisek, Julius. (See Johnson and Kozisek.)						
Kozisek, Julius, et al. (See Baxter, Charles O., assignor.)						
Krabill, John P., Shawtown, Ohio. Ventilator for stove-pipes.....	313,826	Mar. 10	1067	275	30	983
Kraemer & Co., T. F. (See Kraemer, Felix, assignor.)						
Kraemer, Felix, assignor to T. F. Kraemer & Co., New York, N. Y. Piano-stool.....	329,654	Nov. 3	307	79	33	563
Kraetzer, Edward J. (See Williams, Willard M., assignor.)						
Kraft, Adolphus. (See Kraft, Ernest, assignor.)						
Kraft, Ernest, assignor to A. Kraft, Hamilton, Ontario, Canada. Buckle.....	316,372	Apr. 21	1915	506	31	350
Krahn, Edward, Milwaukee, Wis. Shirt.....	321,370	June 30	3257	870	31	1676
Krahmase, Alfred. (See Beloehe and Krahmase.)						
Krajewski, Thomas F., New York, N. Y. Evaporating-pan.....	326,299	Sept. 15	1452	379	32	1298
Kramer, Charles P., assignor of one-third to J. E. Campbell, Hamilton, Ohio. Incline rail-way.....	315,640	Apr. 14	925	242	31	172
Kramer, Charles P., Hamilton, and W. S. Snider, Madison City, assignors of one-third to J. E. Campbell, Hamilton, Ohio. Roller-skate.....	322,617	July 21	1630	471	32	312
Kramer, Heinrich E., Leipzig, Germany. Transferring patterns for embroidery, &c.....	331,308	Dec. 29	2673	778	33	1557
Kramer, Hermann H., Milwaukee, Wis. Hawse-pipe for vessels.....	324,262	Aug. 11	1171	318	32	747
Kramer, Ludwig, and A. Eickhoff, New York, N. Y. Ratchet-wrench.....	320,876	Sept. 22	2247	566	32	1449
Krantz, Friedrich W., assignor to Michigan Lubricator Company, Detroit, Mich. Crank-pin oiler.....	330,904	Nov. 24	1963	531	33	902
Kraschovitz, Eduard, Reudnitz, near Leipzig, Germany. Heating apparatus.....	310,445	Jan. 6	362	99	30	70
Krats, Ernst, Marburg, Germany. Needle.....	324,030	Aug. 11	840	160	32	687
Kratzer, Wayne, Allentown, assignor of two-thirds to C. Ziegenfuss and F. A. S. Helverson, Lehigh County, Pa. Anti-friction wheel or roller.....	320,366	June 16	1940	511	31	1414
Kraus, Edward L., Slatington, Pa. School-slate.....	320,367	June 16	1941	511	31	1414
Kraus, Samuel, assignor to Eagle Pencil Company, New York, N. Y. Colored lead for pencils.....	316,373	Apr. 21	1916		31	359
Kraus, Samuel, assignor to Eagle Pencil Company, New York, N. Y. Artificial slate-pencil.....	316,374	Apr. 21	1917		31	360
Krausch, Theodore, St. Louis, Mo. Refrigerating apparatus.....	316,900	Apr. 28	2666	694 625 606	31	503
Kranse, Albert, Buffalo, N. Y. Tunneling-shield.....	326,650	Sept. 22	1914	502	32	1389
Kranse, George E., Indianapolis, Ind. Bed-lounge.....	325,344	Sept. 1	150	41	32	1043
Kranse, Joseph, Lebanon, Pa. Merchant's registering-tag.....	320,054	Oct. 27	2076	539	33	399
Kranse, Otto H. (See Matthiessen and Kranse.)						
Kranse, Otto H., assignor to F. O. Matthiessen & Wiechers Sugar Refining Company, Jersey City, N. J. Making hard sugar from soft sugar.....	318,630	May 26	2277	608	31	966
Krassé, Rudolf, Mentz, Germany. Street-lamp.....	310,209	Jan. 6	61	17	30	14
Krausmann, Andrew J., Astoria, N. Y. Endless-chain propeller.....	328,123	Oct. 13	803	200	33	152
Krautter, Louis, et al. (See Beimling, Henry, assignor.)						
Krehbiel, John, Detroit, Mich. Capsule-cutter.....	313,601	Mar. 10	768	202	30	929
Krehbiel, John, Detroit, Mich. Capsule-machine.....	315,416	Apr. 7	568	153 154	31	107
Krehbiel, John, Detroit, Mich. Capsule-machine.....	315,417	Apr. 7	601	154	31	108
Krehbiel, John, Detroit, Mich. Capsule-stripping device.....	323,159	July 28	2378	630	32	457
Krehbiel, John, assignor to Globe Capsule Company, Detroit, Mich. Capsule-cutter.....	312,361	Feb. 17	1240	341	30	504
Krehbiel, John, assignor to Globe Capsule Company, Detroit, Mich. Capsule-machine.....	315,415	Apr. 7	507	153	31	107
Krehbiel, John, assignor to Globe Drug and Capsule Company, Detroit, Mich. Capsule-machine.....						
Kreith, Bela, Buda-Pesth, Austria-Hungary. Bed-sofa.....	322,204	Dec. 8	1413	354	33	1258
Krejci, Joseph, Armstrong, Neb. Key-hole guard.....	316,001	Apr. 28	2672	676	31	505
Krementz, George, Newark, N. J. Collar-button.....	327,729	Oct. 6	356	100	33	67
Kromer, Joseph, Springfield, N. Y. Smoke-house.....	315,418	Apr. 7	602	154	31	108
Krongel, Ernest E., Buena Vista, Oreg. Road-cart.....	325,417	Sept. 1	271	67	32	1046
Krosin, John. (See Wheeler, Clark W., assignor.)	316,902	Apr. 28	2673	696	31	505
Kretsinger, Frederick S., Fort Madison, Iowa. Making rakes.....	320,479	June 23	2107	555	31	1454
Kretsinger, Frederick S., Fort Madison, Iowa. Hoe.....	322,350	Dec. 15	1615	424	33	1301
Kretsin'er, William H., Fort Madison, Iowa. Making rakes.....	328,690	Oct. 20	1563	407	33	289
Kretzner, Carl F. E., Kunzendorf, Prussia, Germany. Mouth-piece of presses for the manufacture of tiles.....	318,267	May 19	1787	478	31	869
Krichevski, Gerson, and A. Edmonds, New York, N. Y. Escapement for watches.....	321,611	July 7	276	73, 74	32	53
Kricker, Engelbert, Essen, Prussia, Germany. Box-opener.....	326,002	Sept. 22	2266	600	32	1456
Krieg, John K., New York, N. Y. Embossing-machine.....	319,417	June 2	589	160	31	1160
Krieg, Levi, Frankfort, Ind. Carpet-stretcher.....	315,345	Sept. 1	1-2	42	32	1043
Krieger, Andrew, assignor to J. Ohlen, Columbus, Ohio. Protector for insertible saw-teeth.....	315,419	Apr. 7	602	154	31	108
Krieger, John F., and J. H. Eickershoff, Cincinnati, Ohio. Compound steam-engine.....	318,003	May 19	1448	368	31	806
Krier, Theodore N. M., Chicago, Ill. Nursery-chair.....	327,955	Oct. 6	582	151 152	33	105
Kriete, Henry C., Chicago, Ill. Rail-rolling mill.....	311,588	Feb. 3	175	49	30	381
Kriete, Henry C., Chicago, Ill. Rail-cutting device.....	311,589	Feb. 3	177	50	30	381
Kring, Henry C., Monroe, Mich. Device for converting motion.....	321,371	June 30	3258	870	31	1676
Kriz, William J., H. A. Hammel, and T. W. McManus, St. Louis, Mo. Combination-tool.....	315,148	Apr. 7	224	55	31	41
Kriz, William J., assignor of one-half to J. D. Lucas, St. Louis, Mo. Magazine-gun.....	318,268	May 19	1788	478 479	31	869
Kroedel, Franz. (See Roach and Kroedel.)						
Kroeger, Sabbert & Co. (See Sabbert, Henry P., assignor.)						
Kroemmelbein, Heinrich, New York, N. Y. Oil-cabinet.....	322,834	July 21	1918	508	32	365
Krog, Henry, Sr., Washington, Mo. Box-fastener.....	317,146	May 5	289	74	31	576
Krom, Stephen R., Plainfield, N. J. Ore-crusher.....	330,408	Nov. 17	1329	354	33	774
Kromer, Otto. (See Keller, Jeremiah, assignor.)						
Kromer, Otto, Sandusky, Ohio. Wine and cider press.....	328,850	Oct. 20	1761	459	33	336
Kromer, Otto, Sandusky, Ohio. Turning-lathe.....	333,016	Dec. 22	2557	673	33	1476
Kron, Charles A., New York, N. Y. Jeweler's watch-tray.....	328,412	Oct. 13	1189	308	33	225
Kron, Rudolf, Unterstrass, near Zurich, Switzerland. Self-cleaning pulp-straining machine.....	315,420	Apr. 7	603	155 156	31	108

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Kron, Rudolf, Unterstrass, near Zurich, assignor to Escherwyss & Co., Zurich, Switzer-land. Pulp-straining machine with vertical screen plates	331,304	Dec. 1	66	16	33	1011
Kronenberg, Edward, and C. Wolters, Philadelphia, Pa. Liquid-meter	337,936	Oct. 6	583	152	33	105
Kronenbitter, Anthony, assignor of nine-twentieths to F. Horn, Coshocton, Ohio. Die and punch for making clips for heads of carriage-springs	322,544	July 21	1522	403	32	294
Kronenbitter, Anthony, assignor of nine-twentieths to F. Horn, Coshocton, Ohio. Ear-piece for forming the heads of springs	322,545	July 21	1522	403	32	294
Kruczkowski, Thomas, Barlosobno, Prussia, Germany. Calendar-clock	319,588	June 9	847	225	31	1213
Krueger, Edward, Youngsville, N. Y. Butter-worker	333,309	Dec. 29	2973	778	33	1557
Krueger, Henry F., Neenah, Wis. Roller or wheel for platform-scales, &c.	316,961	May 5	67	17	31	535
Krueger, Max, Mexico, Mo. Neckscarf-exhibitor	321,903	July 7	678	176	32	123
Kruesel, John, Brooklyn, N. Y. Electrical conducting system	322,385	July 14	1310	342	32	249
Kruger, John W., Litchfield, Minn. Fabric-measuring machine	327,178	Sept. 29	2662	692	32	1529
Krumscheid, Jacob, Boston, Mass. Door-check	317,147	May 5	290	74	31	576
Krupp, Fried. (See Pelz, Wilhelm, assignor.)						
Kruse, Charles. (See Weiss, Charles W., assignor.)						
Kruse, Charles. (See Weiss and Kruse.)						
Krüsi, John, St. Gall, Switzerland. Embroidery	322,386	July 14	1313	342	32	249
Krutzsch, William, assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Roller-mill	322,413	Oct. 13	1190	308	33	225
Krutzsch, William, assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Oil-press mat.	322,414	Oct. 13	1191	308	33	225
Krütsner, Adolf, and F. Tentschert, Vienna, Austria-Hungary. Car-starter	326,043	Sept. 8	1089	278	32	1223
Kubler, John, assignor to F. Gross, Hot Springs, Ark. Car starter and brake	328,493	Oct. 20	1283	333	33	249
Kubler, John, assignor to F. Gross, Hot Springs, Ark. Permutation-padlock	323,941	Aug. 11	724	202	32	667
Kucher, John. (See Thompson and Kucher.)						
Kuder, August, Jersey City, N. J. Holding-tool for jewelers and engravers	327,558	Oct. 6	75	16	33	14
Kuehn, Edwin W., Milwaukee, Wis. Box-fastener	330,956	Nov. 24	2073	552	33	923
Kugler, James W., Greenville, Pa. Railway crossing and target	315,515	Apr. 14	745	197	31	139
Kugler, Franz J. (See Antal, Kugler, and Matyas.)						
Kugler, Martin J., Barnesville, Ohio. Bench-dog	313,943	Mar. 17	1251	325	30	1026
Kuhlmann, Hermann A. (See Kuhlmann, John G., assignor.)						
Kuhlmann, John G., assignor of one-half to H. A. Kuhlmann, Cincinnati, Ohio. Snow-plow	323,043	July 28	2229	569	32	427
Kuhlmann, Louis, Brooklyn, N. Y. Washing-liquid	316,154	Apr. 21	1636	31	31	310
Kuhn, Edmund, Brooklyn, N. Y. Button	326,992	Sept. 29	2406	628	32	1455
Kuhn, Edmund, Brooklyn, assignor to Manhattan Watch Company, New York, N. Y. Watch	330,905	Nov. 24	1965	531	33	902
Kuhn, Edward C., Cincinnati, Ohio. Umbrella and parasol	321,612	July 7	277	74	32	63
Kuhn, Frederick X., Buffalo, N. Y. Machine for rolling barrels after being pitched	327,179	Sept. 29	2664	692	32	1529
Kühn, Karl, St. Johann-on-the-Saar, Prussia, Germany. Street-pavement	311,994	Feb. 10	726	199	30	470
Kuhn, Leo S., assignor of one-half to G. F. Ahlers and I. A. Hoffman, Cincinnati, Ohio. Beer-mash tub	313,430	Mar. 3	544	143	30	678
Kuhn, Leo S., assignor of one-half to Hoffman & Ahlers, Cincinnati, Ohio. Preparing maize for mashing	313,431	Mar. 3	546	143	30	679
Kuhn, Leo S., assignor of one-half to Hoffman & Ahlers, Cincinnati, Ohio. Machinery for cooking mashies	313,432	Mar. 3	548	144	30	679
Kuhn, Michael E. (See Morgan, Edward H., assignor.)						
Kühner, Christian, Canton, Ohio. Bung and bush	326,127	Sept. 15	1901	307	32	1251
Kuhner, Louis, Decatur, Ill. Incubator	324,390	Aug. 18	1345	366	32	789
Kulich, Anton, Brooklyn, N. Y. Bed-lounge	328,894	Oct. 20	1819	474	33	347
Kulich, Anton, Brooklyn, N. Y. Bureau-bed	328,895	Oct. 20	1820	474	33	347
Kullmann, Robert A., Jersey City, N. J. Finger-ring	313,064	Mar. 3	59	16	30	729
Kummer, Frank M. (See Judson, Agar, assignor.)						
Kundtz, Theodor, Cleveland, Ohio. Extension-leaf for tables	315,949	Apr. 14	1353	351	31	250
Kunis, Karl W., Rendnitz, Leinsie, Germany. Apparatus for testing flour	328,494	Oct. 20	1285	334	33	249
Kunkel, Daniel Sr., Oregon, Mo. Washing-machine	319,589	June 9	849	225	31	1213
Kunkler, Albert. (See Priestley and Kunkler.)						
Kunkler, Edward, St. Gall, and J. Brunner, Küssnacht, Zurich, Switzerland. Preparing surfaces for printing by photography	333,470	Dec. 29	3181	830	33	1591
Kunnecke, Ernst C. L., Dayton, Ohio. Trace guide and fastener	333,136	Dec. 29	2733	718	33	1513
Kunsmann, George H., Shakopee, Minn. Corn-harvester	326,993	Sept. 29	2406	629	32	1455
Kuntz, Charles, et al. (See Kleppinger, Joseph H., assignor.)						
Kuntze, John. (See Robinson, Clark, assignor.)						
Küntzel, Paul, and F. L. Loeschner, Stapleton, N. Y. Fanet	319,913	June 9	1267	340	31	1291
Kunz, Frederick O., assignor to Her & Co., Omaha, Nebr. Method of and apparatus for mashing and cooking grain	311,590	Feb. 3	178	50	30	381
Kunzelman, John R. (See Schmidt and Kunzelman.)						
Kürschner, Eduard, assignor to C. G. Schwabe, Liegnitz, Silesia, Prussia, Germany. Photograph-exhibitor	322,111	July 14	963	250	32	184
Kurscheidt Manufacturing Company. (See Groebli, Joseph A., assignor.)						
Kurten, Joseph, St. Louis, Mo. Paper-folding machine	326,910	Sept. 22	2296	601	32	1457
Kurtis, Joseph, Springfield, Ohio. Stove-pipe shelf	319,101	June 9	209	54	31	1026
Kurtz, Adolph, San Francisco, Cal. Liquid-cooler	325,418	Sept. 1	272	67	32	1067
Kurtz, John A., et al. (See McKinley, William H., assignor.)						
Kurtz, John, Philadelphia, Pa. Hose-bridge	323,310	Dec. 29	2975	779	33	1557
Kutz, Samuel H., et al. (See Orr and Selvar, assignors.)						
Kux, Adolf, Berlin, Germany. Vacuum-pump	312,644	Feb. 24	1620	446	30	674
Kux, Adolf, Berlin, Germany. Apparatus for cooling and freezing fluids	320,144	June 16	1607	425	31	1356
Kwarel, Jacob L., assignor to himself and L. Roth, New York, N. Y. Bow-facing oar and oar-lock	330,841	Nov. 17	1877	508	33	878
Kyker, John M. (See Yarbrough and Kyker.)						
Kyle, Rufus P., et al. (See Hardy, Leslie T., assignor.)						
Kyte, Daniel J., Philadelphia, Pa. Bitters	330,496	Nov. 17	1442	33	33	785
Kyte, William G., and J. A. Martin, Middlebury, Ind. Gate	325,213	Aug. 25	2460	676	32	1062
La Baw, David D., Jersey City, N. J. Clamp for dumb-waiters	310,687	Jan. 13	679	186	30	135
La Dow, Charles, Albany, N. Y. Sulky-harrow	312,476	Feb. 17	1397	386	30	621
La Dow, Charles, Albany, N. Y. Disk-harrow	323,343	July 28	2647	705	32	504
La Dow, Charles, Albany, N. Y. Disk-harrow	323,344	July 28	2652	705	32	505
La Due, Thomas R., Carson City, Mich. Wagon-spring	324,263	Aug. 11	1171	318	32	748
La Fountain, William H., Cleveland, Ohio. Carpet-cleaner	318,993	June 2	81	21	31	1063
La Jennesse, Adolph, Oakland, Cal. Clothes-prop	323,044	July 28	2230	590	32	428
La Point, Henry C., and C. B. Hoppin, U. S. Army. Scabbard for intrrenching-tools	314,836	Mar. 31	2470	653	30	1287

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La Rue, Henry U., assignor of one-half to S. M. Warner, Topeka, Kans. Seal-lock	331,302	Nov. 24	2365	640	33	976
La Rue, Silas H., Reading, Pa. Heating stove	310,596	Jan. 13	562	156	30	114
La Rue, Silas H., Reading, Pa. Stove and heater	324,944	Aug. 25	2100	575	32	937
La Société Anonyme Pour les Procédés Brevetés de Farinerie Saint Requier. (See Saint Requier, Henry F., assignor.)						
Laarman, Petrus F., Amsterdam, Holland. Safety device for elevator-cages, &c	321,303	June 30	3169	845	31	1658
Laas, Emil. (See Latulip, Frederic, assignor.)						
Laberde, Joseph. (See Koech and Laberde.)						
Laborde, Ludovic, Fleurance, Gers, France. Apparatus for destroying phylloxera	317,802	May 12	1169	310	31	745
Lacasse, Henry, Auburn, N. Y. Galloping horse	327,697	Oct. 6	262	65, 66	33	46
Lacasse, Henry, Auburn, N. Y. Velocipede	327,979	Oct. 6	614	160	33	111
Lace, John H., assignor of one-half to O. S. Dale, Michigan City, Ind. Folding cradle	318,751	May 26	2439	654	31	996
Lacey, Albert R. (See Ludlow, Charles A., assignor.)						
Lacey Automatic Coupling Company. (See Lacey, John J., assignor.)						
Lacey, John J., San Francisco, assignor to Lacey Automatic Coupling Company, Oakland, Cal. Coupling for connecting pipes	324,031	Aug. 11	840	233	32	688
Lackey, Sylvanus J., Indianapolis, Ind. Bosom-board	325,346	Sept. 1	153	42	32	1044
Lackey, William H., Akron, Ohio. Portable book-case, &c	315,301	Apr. 7	439	110	31	80
Lacosse, Callix, Bay City, Mich. Meat-tenderer	326,680	Sept. 22	1915	503	32	1359
Lacrone, Milton, and A. K. Hahn, Springfield, Ohio. Caster	318,752	May 26	2440	654	31	997
Ladd, Albert. (See Warren and Ladd.)						
Ladd, Dennis O., assignor of one-half to G. Farnsworth, Chicago, Ill. Slide-valve	331,506	Dec. 1	353	95, 96	33	1061
Ladd, Edward O., Everett, Mass. Sash-fastening	313,563	Mar. 10	645	167	30	905
Ladd, Hiram H., Fremont, Nebr. Rotating harrow	318,631	May 26	2278	608	31	966
Ladd, James E., Bristol, Conn. Trunk hinge and stay	319,288	Jan. 6	169	47	30	33
Ladd, James E., Bristol, Conn. Trunk-catch	325,347	Sept. 1	153	42	32	1044
Ladd, Lafayette, Adrian, Mich. Machine for separating seeds from pulp	318,122	May 19	1602	428	31	834
Ladd, Levi. (See Stinson, Charles K., assignor.)						
Ladd, Loren G. (See Nowell and Ladd.) (Reissue.)						
Ladd, Loren G., assignor to S. Grant & Co., Pawtucket, R. I. Hoisting-bucket	314,031	Mar. 17	1358	353	30	1047
Ladd, Sumner. (See Boardman, Lorenzo M., assignor.)						
Lade, Robert, Holyoke, Mass. Automatic elevator-gate	312,276	Feb. 17	1128	300	30	573
Ladomus, Lewis, Chester, Pa. Crutch	332,608	Dec. 22	2260	596	33	1422
Ladue, Eugene A., Nashua, N. H. Let-off mechanism for looms	328,041	Oct. 13	694	183	33	133
Lafave, Minard, assignor to Case & Willard Thresher Company, Battle Creek, Mich. Traction-engine gear	326,994	Sept. 29	2408	629	33	1485
Lafferty, Erastus S. (See Marshall and Lafferty.)						
Lafferty, Hugh W., Gloucester City, N. J. Press for separating liquid and solid matter	332,718	Dec. 22	2154	568	33	1401
Lafferty, Louis E., Allegheny City, Pa. Curtain-stretcher	331,305	Dec. 1	67	16	33	1011
Lafin, John M., New York, N. Y. Syringe for applying ointment, &c	320,261	June 16	1756	466	31	1383
Lafin, Percy, Warren, assignor to T. C. Bates, North Brookfield, Mass. Corset-fastening	311,995	Feb. 10	728	199	30	490
Lafin, Percy, Warren, assignor to T. C. Bates, North Brookfield, Mass. Corset-steel fastening	312,209	Feb. 10	1025	280	30	546
Lafontaine, Joseph G., Champlain, N. Y. Car-wheel	310,688	Jan. 13	620	186	30	135
Laforge, Frederick H., and J. R. Smith, Waterbury, Conn. Key-ring tag	311,331	Jan. 27	1577	430	30	310
Lagerquist, Oscar F. (See Jordan and Lagerquist.)						
Lages, George H., et al. (See Georgi, Rudolf, assignor.)						
Lagowitz, Jacob. (See Frankel, Alexander C., assignor.)						
Lahr, Peter, Marshfield, Wis. Stove attachment	331,797	Dec. 8	818	208	33	1152
Laidlaw, John, Glasgow, county of Lanark, Scotland. Centrifugal machine	319,493	June 9	711	191	31	1188
Lain, John J., Brazos Point, Tex. Tug and hip strap attachment for harness	325,547	Sept. 1	447	111	32	1101
Lain, James M., Bay City, Mich. Automatic device for stopping steam-engines	325,941	Sept. 8	954	243	32	1200
Laird, Peter B., Brooklyn, N. Y. Ice-creeper	319,729	June 9	1096	272	31	1246
Lake, Charles M., Jackson, Mich. Locomotive ash-pan. (Reissue.)	10,558	Feb. 3	526	143	30	448
Lake, Everett L., Syracuse, N. Y. Breech-loading fire-arm	310,689	Jan. 13	620	187	30	135
Lake, Everett L., Syracuse, N. Y. Reamer	318,994	June 2	81	21	31	1063
Lake, Everett L., and L. S. Crandall, assignors to Lake Manufacturing Company, Syracuse, N. Y. Combined match-safe and cigar-clipper	316,466	Apr. 28	9060	540	31	391
Lake, Ezra B., Ocean City, N. J. Anti-friction roller-bearing	332,091	Dec. 8	1258	327	33	1231
Lake, J. Christopher, Aurora, Ill. Spring shade-roller	310,595	Jan. 13	561	156	30	113
Lake, James K., Chicago, Ill. Combined chair and stringer	323,430	Aug. 4	60	15, 16	32	534
Lake Manufacturing Company. (See Lake and Crandall, assignors.)						
Lake Shore Tubular Axle Company. (See Peckham, Edgar, assignor.)						
Lakin, James A., Westfield, Mass. Clock for governing damper mechanism	312,477	Feb. 17	1400	326	30	624
Lakin, James A., Westfield, Mass. Damper-operating mechanism for heating apparatus	322,186	July 14	1060	275	32	201
Lakin, James A., and C. J. Emerson, Jr., Westfield, Mass., assignors to said Lakin. Time-damper mechanism	313,003	Feb. 24	2092	570	30	758
Lakin, John H. (See Badger, George A., assignor.)						
Lakin, John H. (See Badger and Lakin, assignors.)						
Lakin, Rinaldo S., assignor of one-half to S. S. Higgins, Boston, Mass. Tooth-brush	325,250	Sept. 1	94	8	32	1020
Lakin, Wilber F. (See Badger and Lakin.)						
Lalance, Auguste. (See Farmer and Lalance.)						
Lalance & Grosjean Manufacturing Company. (See Chaumont, Jules, assignor.)						
Lalance & Grosjean Manufacturing Company. (See Milligan and Chaumont, assignors.)						
Lamar, James S., Augusta, Ga. Cotton-chopper	310,446	Jan. 6	363	100	30	71
Lamar, James S., Augusta, Ga. Cotton-chopper	322,941	July 28	2075	552	32	400
Lamar, James S., Augusta, Ga. Cotton-chopper	326,570	Sept. 22	1788	460	32	1308
Lamb, George W., Bowie, Tex. Apparatus for hoisting bales on wagons	317,803	May 12	1170	310	31	745
Lamb, John J., and J. A., Waterloo, Iowa. Device for pumping or elevating water	323,816	Aug. 4	555	158	32	627
Lamb, Jndson A. (See Lamb, John J. and J. A.)						
Lamb, Levi L., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Drilling-machine	315,149	Apr. 7	225	55	31	41
Lamb, Levi L., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Countersinking-machine	316,271	Apr. 21	1779	468	31	335
Lamb, Mortimer D., Butte City, Mont. Ter. Lamp-chimney cleaner	329,571	Nov. 3	206	54	33	544
Lamb, Salem T., New Albany, Ind. Door-spring	315,302	Apr. 7	440	111	31	80
Lamb, Thomas, Philadelphia, Pa. Sewing-machine	327,800	Oct. 6	327	100	33	62
Lamb, Virgil M., Racine, Wis. Press for printing on boards	330,243	Nov. 10	1096	290	33	722

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Lambert, Harden, <i>et al.</i> (See Perkins, William J., assignor.)						
Lambert, Julius, Hoboken, N. J. Hand-bag	315,303	Apr. 7	441	111	31	80
Lambert, Robert A., Mobile, Ala. Combined seed-planter and fertilizer-distributor	318,733	May 26	2441	654	31	997
Lambert, Thompson W., Avis, Va. Horse-detacher	332,257	Dec. 15	1495	391	33	1279
Lambeth, Alexander C., Denver, Colo., assignor to S. W. Lambeth, Philadelphia, Pa. Saddle-tree	328,231	Oct. 13	937	244	33	179
Lambeth, Alexander C., Denver, Colo., assignor to S. W. Lambeth, Philadelphia, Pa. Riding-saddle	328,232	Oct. 13	938	244	33	178
Lambeth, Samuel W. (See Lambeth, Alexander C., assignor.)						
Lambie, Edward L., <i>et al.</i> (See Warner, John P., assignor.)						
Lambie, Robert M., New York, N. Y. Book-holder	323,511	Aug. 4	169	49, 50	32	554
Lambie, Robert M., New York, N. Y. Swivel for book-holders	324,032	Aug. 11	842	233	32	698
Lambking, William, Philadelphia, Pa. Railway-rail	317,804	May 12	1171	310	31	745
Lamkin, Charles, Batavia, N. Y. Steam-pipe covering	332,258	Dec. 15	1496	391	33	1279
Lamm, Oscar, Jr., Stockholm, Sweden. Centrifugal creamer	327,090	Sept. 29	2541	662	32	1508
Lamme, William W., Austin, Tex. Kettle attachment	312,478	Feb. 17	1401	386	30	624
Lamond, David, Allegheny, Pa. Hot-blast stove	311,190	Jan. 27	1370	376	30	273
Lamont, Charles G., Astoria, Oreg. Skate	324,564	Aug. 18	1589	433	32	830
Lamont, James, assignor to Fahys Watch Case Company, Sag Harbor, N. Y. Watch-case	321,826	July 7	579	151	32	106
Lamont, James, assignor to Fahys Watch Case Company, Sag Harbor, N. Y. Watch-key and pendant	322,297	July 14	1190	312	32	226
Lamont, James, assignor to Fahys Watch Case Company, Sag Harbor, N. Y. Watch-case	328,701	Oct. 20	1622	438	33	322
Lamont, James, assignor to Fahys Watch Case Company, Sag Harbor, N. Y. Watch-case	330,717	Nov. 17	1715	463	33	849
Lamontagne, Marie M., Montreal, Quebec, Canada. Eye-water	312,131	Feb. 10	904		30	524
Lamontagne, Marie M., Montreal, Quebec, Canada. Cough remedy	312,132	Feb. 10	905		30	524
Lamoureux, John H., Robinson, Ill. Weather-strip	314,875	Mar. 31	2469	653	30	1266
Lamoureux, John H., assignor of one-half to W. W. Roundtree, Robinson, Ill. Gate	331,720	Dec. 1	711	176	33	1124
Lamphere, George N. (See Lowry, Albert, assignor.)						
Lamplugh, James A., Birmingham, county of Warwick, England. Saddle for bicycles	311,332	Jan. 27	1578	430	30	310
Lamplugh, James A., Birmingham, county of Warwick, England. Saddle for velocipedes	323,693	Aug. 4	406	117	32	509
Lampmann, Henry, Afton, N. Y. Grain-cleaning machine	317,655	May 12	976	252	31	708
Lampson, Forest M., and G. W. Hogben, Ripon, Wis. Adjustable window-screen	328,691	Oct. 20	1584	407	33	299
Lampton, William R., assignor of one-half to W. O. Winn, Terre Haute, Ind. Gate-latch	310,528	Jan. 6	460	126	30	89
Lamson, W. S. (See Wiggin, William H. and F. L., assignors.)						
Lamson Cash Railway Company. (See Giles, Edwin L., assignor.)						
Lamson Cash Railway Company. (See Hill, Warren S., assignor.)						
Lamson, Charles H., Portland, Me. Cyclometer	320,145	June 16	1000	426	31	1356
Lamson, Frank G. (See Williams, Lemuel G., assignor.)						
Lamson, Warren H., Lynn, Mass. Pencil-sharpening machine	317,550	May 12	840	216	31	653
Lamson, William S., Lowell, Mass. Elevator for cash-carriers	310,832	Jan. 13	857	272	30	168
Lamson, William S., and E. L. Giles, Lowell, Mass. Cash and parcel carrier	326,128	Sept. 15	1202	307	32	1251
Lancaster, Bradford F., assignor of one-half to R. W. Black, Augusta, Me. Wrench	325,942	Sept. 8	956	243	32	1200
Lancaster, Charles, Newark, N. J. Stove	322,731	July 21	1777	469	32	339
Lancaster, Henry P., Lynn, Mass. Sewing-machine presser-foot	321,304	June 30	3170	845	31	1659
Lancaster, Isaac I., Tacoma, Wash. Ter. Hoisting and lowering apparatus	325,614	Sept. 1	523	132	32	1115
Lancaster, Israel, Chicago, Ill. Grain-binder	316,272	Apr. 21	1722	469	31	336
Lancaster, Israel, Chicago, Ill. Roller-skate	321,227	June 30	3077	817	31	1641
Lancaster, Israel, Chicago, Ill. Grain-binder	324,122	Aug. 11	966	266	32	710
Lancaster, Israel, Chicago, Ill. Church-pew	326,571	Sept. 22	1789	470	32	1368
Lancaster, John, Dover, N. H. Stop-motion for spoolers, &c	330,906	Nov. 24	1966	532	33	902
Lancaster, William, Acerrington, county of Lancaster, England. Machine for spinning and doubling yarn	326,300	Sept. 15	1455	370	32	1298
Lance, William L., Philadelphia, Pa. Lap-board	322,942	July 28	2076	552	32	401
Land, Benjamin H., New York, N. Y. Thrill-coupling	329,572	Nov. 3	207	54	33	544
Land, Horatio N. (See Campbell and Land.)						
Land, Silas, assignor of one-half to J. H. Rathien, Philadelphia, Pa. Sash-cord fastener	327,276	Sept. 29	978	721	32	1550
Lande, Hester, New York, N. Y. Safety attachment for gas cocks	324,123	Aug. 11	970	267	32	711
Landerholm, Andra F. (See Nelson and Landerholm.)						
Landers, John S., and D. B. Wesson, assignors to Smith & Wesson, Springfield, Mass. Lock for fire-arms	323,873	Aug. 4	637	177	32	611
Landes, Samuel. (See Embrey, Robert, assignor.)						
Landgrane, Frank O., assignor of one-half to M. E. Willis, San Francisco, Cal. Car-brake	321,507	July 7	129	34	32	26
Landgrane, Frank O., and M. E. Willis, San Francisco, Cal. Fare-box	325,348	Sept. 1	154	42	32	1044
Landgrane, Frank O., and M. E. Willis, San Francisco, Cal. Fare-box	332,233	Dec. 29	2865	749	33	1536
Landgrane, Frank O., M. P. Schetzel, and M. E. Willis, San Francisco, Cal. Propulsion of vehicles or cars	333,234	Dec. 29	2866	749	33	1536
Landis, Abraham B., Waynesborough, Pa. Drill-chuck	317,148	May 5	991	74	31	576
Landis, Abraham B., Waynesborough, Pa. Valve-gear	321,117	June 30	2943	780	31	1615
Landis, Benjamin F., St. Joseph, Mo. Wax-heater for sewing-machines	328,223	Oct. 13	938	244	33	178
Landis, Benjamin F., St. Joseph, Mo. Sewing-machine waxing device	331,306	Dec. 1	67	17	33	1011
Landis, Benjamin F., St. Joseph, Mo. Thread-waxing and heating device for sewing-machines	332,259	Dec. 15	1496	392	33	1279
Landis, Frank F., Waynesborough, Pa. Gang-plow	316,045	Apr. 21	1475	366	31	280
Landis, Frank F., Waynesborough, Pa. Traction-wheel	325,750	Sept. 8	734	180	32	1155
Landis, Frank F., Waynesborough, Pa. Spark-arrester	323,260	Dec. 15	1498	392	33	1280
Landon, George W., Baltimore, Md. Automatic fire extinguisher and alarm	323,160	July 28	2380	631	32	457
Landrinn, Henry, Anglet, Basses-Pyrénées, France, assignor to D. Block, San Francisco, Cal. Ore separating and concentrating machine	321,118	June 30	2946	781	31	1615
Landsberg, Isabella. (See Anthony, Marcus O., assignor.)						
Lane, Almeron M., assignor to W. L. Gilbert Clock Company, Winsted, Conn. Clock-case	321,613	July 7	280	74	32	54
Lane, Amelia R., Brooklyn, N. Y. Elastic button-hole attachment for garments	329,055	Oct. 27	2077	539	33	399
Lane, Andrew W., Janesville, Cal. Self-regulating windmill	332,261	Dec. 15	1499	392	33	1280
Lane & Bodley Company. (See Roth, Frank J., assignor.)						
Lane & Bodley Company. (See Stanwood, James B., assignor.)						
Lane, Charles C., San Francisco, Cal. Expanding drill-bit for Artesian-well boring	326,661	Sept. 22	1916	503	32	1390
Lane, Dennis, assignor to Lane Manufacturing Company, Montpelier, Vt. Saw-mill dog	316,273	Apr. 21	1787	469	31	337
Lane, Dennis, assignor to Lane Manufacturing Company, Montpelier, Vt. Saw-mill set-works	317,378	May 5	608	155	31	634

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Lane, Dennis, assignor to Lane Manufacturing Company, Montpelier, Vt. Roller and bonnet attachment for planing-machines.....	317,379	May 5	609	156	31	634
Lane, Enoch J., Williams, Cal. Gate.....	399,056	Oct. 27	2078	539	33	390
Lane, Frank W., assignor of two-thirds to H. W. Whitney and G. A. Smythe, Waltham, Mass. Broom-holder.....	398,851	Oct. 20	1768	460	33	337
Lane, Frederic A., assignor to New Haven Clock Company, New Haven, Conn. Clock-striking.....	313,344	Mar. 3	434	109	30	856
Lane, Frederick, Boston, Mass., assignor to T. C. Freneyear, Exeter, N. H., and L. E. Rasee, Attleborough, Mass. Knob for electric gas-lighting apparatus.....	311,840	Feb. 3	487	133	30	440
Lane, Frederick, assignor to O. Gassett, Boston, Mass. Apparatus for burning liquid fuel.....	333,311	Dec. 29	2975	779	33	1557
Lane, Frederick A., assignor to New Haven Clock Company, New Haven, Conn. Clock-movement.....	317,380	May 5	610	156	31	635
Lane, George M. (See Hall and Lane.)						
Lane, Henry G., Bucyrus, Ohio. Tire-shrinker.....	320,071	June 16	1506	399	31	1339
Lane, Ira G., New York, N. Y. Chimney-cowl.....	318,632	May 26	2279	609	31	966
Lane, John, Hyde Park, Ill. Cultivator.....	314,143	Mar. 17	1503	392	30	1073
Lane, John, Hyde Park, assignor to Hapgood Plow Company, Alton, Ill. Cultivator.....	310,289	Jan. 6	170	47	30	33
Lane, John A., Boston, Mass. Axle-lubricator.....	316,046	Apr. 21	1478	366	31	281
Lane, John A., and J. M. Thorp, Detroit, Mich. Car-starter.....	329,319	Oct. 27	2450	635	33	468
Lane, John C. (See Swayze and Lane.)						
Lane, Jonathan D., Onondaga, Mich. Horse-collar fastener.....	396,436	Sept. 15	1623	494	32	1329
Lane, Louis. (See Lane, William H. and L.)						
Lane, Louis and W. H., Newark, Ohio. Fire-proof lathing.....	331,643	Dec. 1	603	149	33	1103
Lane, Louis C., Cincinnati, Ohio. Registering-faucet.....	320,420	June 23	2108	556	31	1454
Lane Manufacturing Company. (See French, Henry W., assignor.)						
Lane Manufacturing Company. (See Lane, Dennis, assignor.)						
Lane, Richard H., et al. (See Barlow, Charles O., assignor.)						
Lane, Richard H., et al. (See Barlow and Emery, assignors.)						
Lane, Stephen, Jr., New York, N. Y. Overflow-trap for wash-basins, bath-tubs, &c.....	332,911	Dec. 22	2408	636	33	1449
Lane, Thomas W., Boston, Mass. Telephone-support.....	320,438	June 16	2048	537	31	1435
Lane, William H. (See Lane, Louis and W. H.)						
Lane, William H. and L., Newark, Ohio. Fire-proof lath for slates.....	320,072	June 16	1507	399	31	1339
Lane, William J., Poughkeepsie, N. Y. Steam-engine.....	315,516	Apr. 14	746	197 198	31	140
Laney, John H., Indiana, Pa. Farm-gate.....	315,798	Apr. 14	1140	299	31	214
Laney, John H., Indiana, Pa. Paper-file.....	332,663	Dec. 15	2062	541	33	1379
Laney, John H., Indiana, Pa. Transfer-file.....	332,664	Dec. 15	2063	542	33	1379
Laney, John H., Indiana, Pa. Filing-case.....	332,665	Dec. 15	2064	542	33	1379
Laney, John H., Indiana, Pa. Punch.....	332,666	Dec. 15	2065	542	33	1379
Lang, Charley F., and O. C. Stafford, Rising City, Nebr. Coupling device for sand-points in drive-wells.....	312,867	Feb. 24	1925	527	30	728
Lang, Felix, Chicago, Ill. Wagon-stake.....	323,512	Aug. 4	171	50	32	554
Lang, Fred N., Baraboo, Wis. Hand weeding-tool.....	324,565	Aug. 18	1570	434	32	830
Lang Hydraulic Machine Company. (See Hood and Lombard, assignors.)						
Lang Hydraulic Machine Company. (See Lombard, Levi W., assignor.)						
Lang, William, New York, N. Y. Sash-lock.....	330,591	Nov. 17	1555	416	33	817
Lang, William H., Burlington, Vt. Venetian blind.....	322,732	July 21	1778	469	32	339
Langbein, Charles. (See Woodrich and Langbein.)						
Langbein, Woldemar. (See Richter, Hugo E., assignor.)						
Langdon, Harry E., et al. (See Mulberry, James C., assignor.)						
Langdon, John J., South Pueblo, Colo. Adjustable mirror-bracket.....	325,419	Sept. 1	273	67	32	1067
Lange, Christian, Irlism, Ill. Bottle-stopper.....	319,881	June 16	1369	366	31	1317
Lange, Philipp, assignor to Bergmann & Co., New York, N. Y. Regulator for electric lights.....	330,244	Nov. 10	1097	290 291	33	722
Lange, Philipp, and E. Lindner, New York, N. Y. Electric glass-cutting machine.....	317,805	May 12	1171	311 74 75	31	740
Langelier, Antoine J., Providence, R. I. Heel-machine.....	317,149	May 5	292	76 77	31	577
Langelier, Antoine J., Providence, R. I. Heel-machine.....	331,412	Dec. 1	222	58 59 60	33	1037
Langen, Eugen, Cologne, Germany. Method of and apparatus for treating semi-liquid substances with purifying or other liquids.....	323,694	Aug. 4	406	117	32	599
Langenan, William C., assignor to Garry Iron Roofing Company, Cleveland, Ohio. Iron roofing.....	317,381	May 5	611	156	31	635
Langford, Simeon, Cynthiana, Ind. Salky plow and cultivator.....	324,840	Aug. 25	1979	544	32	914
Langford, Simeon, Cynthiana, Ind. Cultivator-shovel.....	324,850	Aug. 25	1980	544	32	914
Langham, Thomas, assignor of one-half to A. Oliver, Philadelphia, Pa. Knitting-machine.....	325,943	Sept. 8	957	243	32	1300
Langley, William W., assignor of one-half to H. and G. W. Reitenour, Union City, Ohio. Kitchen-cabinet.....	327,801	Oct. 6	388	101	33	68
Langstrom, Albert, Council Bluffs, Iowa. Wrench.....	327,559	Oct. 6	76	17	33	15
Langstrom, Albert, Council Bluffs, Iowa, assignor of one-half to C. Wassberg, Omaha, Nebr. Transom-lifter.....	324,943	Aug. 25	2099	574	32	936
Langworthy, Lyman B., et al. (See Wise, William P., assignor.)						
Laning, George, La Salle, Ill. Feed-trough.....	331,507	Dec. 1	356	96	33	1062
Lannert, John A., Cleveland, Ohio, assignor to Buffalo Electric Works, Buffalo, N. Y. Current-regulator for dynamo-electric machines.....	324,566	Aug. 18	1571	434	32	830
Lantz, David E., Bushnell, Ill. Wagon end-gate.....	319,271	June 2	407	108	31	1125
Lantz, Isaac, Lane, Kans. Churn.....	326,751	Sept. 22	2069	538	32	1416
Lantz, Samuel M. (See Ludwig, Romulus P., assignor.)						
Lanum, James L., De Graff, Ohio. Corn-planter.....	322,792	Oct. 20	1684	438 439	33	322
Lanyon, Robert H. (See Lanyon, William and R. H.)						
Lanyon, William and R. H., Pittsburg, Kans. Apparatus for cleaning the residuum from zinc-retorts.....	319,270	June 2	406	108	31	1124
Lapham, Allyn M. (See Shank, John T., assignor.)						
Lapham, Edward. (See Miller and Lapham.)						
Laplace, Edouard. (See Laplace, Vincent and E.)						
Laplace, Vincent and E., Issoudun, France. Grain-bagging apparatus.....	318,633	May 26	2280	609	31	967
Lapp, John, Honeoye Falls, N. Y. Convertible skate.....	330,133	Nov. 10	964	251	33	696
Lappin, John J., Toronto, Ontario, Canada. Brake-shoe.....	312,734	Feb. 24	1737	478	30	695
Lappin, John J., Toronto, Ontario, Canada. Brake-shoe.....	324,851	Aug. 25	1981	544	32	914
Lappin, John J., Toronto, Ontario, Canada. Brake-shoe.....	329,459	Nov. 3	38	11	33	512

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Lappin, John J., Toronto, Ontario, Canada. Brake head and shoe.....	331,894	Dec. 8	963	949	33	1178
Laqua, Frederick, Thielmantion, Minn. Harvester-reel.....	317,150	May 5	298	76	31	578
Laqua, Frederick, Thielmantion, Minn. Harvester.....	328,234	Oct. 13	940	245	33	179
Laraway, George W., Hartford, Conn. Drier for paper drums and barrels.....	311,499	Feb. 3	53	15, 16	30	359
Laraway, George W., Hartford, Conn., assignor, by mesne assignments, to himself and J. F. Seiberling, Akron, Ohio. Machinery for drying drums or barrel-bodies.....	310,690	Jan. 13	681	187	30	136
Larchar, Lewis, Cedar Rapids, Iowa. Railway-rail brace.....	318,624	May 26	2382	609	31	967
Lard, Allan. (See Keller, Warren, assignor.)						
Larée, Eugene P. (See Ysaba y Lazarte and Larée.)						
Laremore, Robert M., near Peoria, Ind. Butchering device.....	311,191	Jan. 27	1371	376	30	273
Large, Adolphus R., Birkenhead, county of Chester, England. Apparatus for shipping and transferring coal, salt, &c.....	316,982	May 5	63	18	31	535
Large, George W., Yellow Springs, Ohio. Rocking-chair.....	392,943	July 28	2077	553	32	401
Larcent, James J., assignor of one-half to M. Wilz, Peoria, Ill. Freight-car door.....	319,730	June 9	1027	272	31	1247
Lariew, John R., Elmira, N. Y. Head-section.....	313,743	Mar. 10	958	248	30	964
Larish, Joseph W., Buffalo, N. Y., assignor to Baltimore and Ohio Telegraph Company, Baltimore, Md. Preventing false signals on reversals in quadruplex telegraphs.....	329,749	Nov. 3	435	111	33	587
Larkin, John C., assignor of one-third to T. C. Grey, Whitefield, N. H. Brake-shoe.....	319,731	June 9	1028	272	31	1247
Larkin, John C., assignor to himself, A. L. and W. G. Brown, E. Ray, and G. Bernard, Whitefield, N. H. Railway-rail joint.....	324,652	Oct. 20	1564	408	33	299
Larkin, Samuel, assignor to American Button Hole, Overseaming and Sewing Machine Company, Philadelphia, Pa. Shuttle for sewing-machines.....	323,345	July 28	2652	706	32	505
Larkin, Thomas. (See Black and Larkin.)						
Larmanjat, Jean, Paris, France. Press for molding ornamental tiles or other articles of cement.....	319,822	June 9	1166	308	31	1270
Larabee, Frank D., et al. (See Angell, Ransom S., assignor.)						
Larsen, Thomas W., et al. (See Clarke, William H., assignor.)						
Larson, Arney S., Geneva, Minn. Sleigh-knee.....	324,567	Aug. 18	1573	434	32	831
Larson, Laris P. (See Nelson and Larson.)						
Larson, Lars, assignor to himself and J. C. S. Miller, Chicago, Ill. Desk.....	330,400	Nov. 17	1331	354	33	774
Larson, Per E. (See Peterson and Larson.)						
Larus, John R. (See Stewart, Robert H., assignor.)						
Larzclere, Henry B., Greencastle, Pa. Traction-wheel.....	311,068	Nov. 24	2164	567	33	941
Larzclere, Henry B., Greencastle, Pa. Reversing-gear for engines.....	331,069	Nov. 24	2165	568	33	941
Lasar, Godfrey H., St. Louis, Mo. Barb-wire machine.....	319,962	June 10	1190	366	31	1317
Lasar, Godfrey H., St. Louis, Mo. Barb-wire machine.....	322,112	July 14	963	210 251	32	184
Lasar, Godfrey H., St. Louis, Mo. Barbed-wire machine.....	322,546	July 21	1530	403 404	32	295
Lasar, Godfrey H., St. Louis, Mo. Barb-wire machine.....	321,161	July 28	2381	631	32	458
Lasar, Godfrey H., St. Louis, Mo. Barb-wire machine.....	327,277	Sept. 29	2770	721 722	32	1551
Lash, John F., assignor to Z. A. Lash, Toronto, Ontario, Canada. Letter-copying machine.....	333,312	Dec. 29	2978	779	33	1537
Lash, John S., Philadelphia, Pa. Combined clothes and hat rack.....	330,497	Nov. 17	1442	385	33	796
Lash, Zebulon A. (See Lash, John F., assignor.)						
Lasko, Oskar, et al. (See Lautensack, Daniel, assignor.)						
Laskoy, John H., assignor of two-thirds to I. F. Dobson, Boston, and B. F. Davies, Cambridge, Mass. Mantel-bed.....	314,032	Mar. 17	1359	354	30	1047
Laskoy, John H., assignor of two-thirds to I. F. Dobson, Boston, and B. F. Davies, Cambridge, Mass. Ballot box.....	390,803	June 23	2517	667	31	1532
Latcha, Jacob A., Cleveland, Ohio. Apparatus for drying grain by means of air-currents.....	318,289	May 19	1791	470	31	870
Latcha, Jacob A., Cleveland, Ohio. Elevating, conveying, purifying, and drying grain.....	318,377	May 19	1942	521	31	898
Lathrop, Henry G., St. Johnsville, N. Y. Separable button.....	324,852	Aug. 25	1982	545	32	914
Lathrop, Jos. rh. and A. Tyrrell, Chicago, Ill. Pulley or wheel.....	325,781	Sept. 1	24	8	32	1020
Lathrop, Kirke E., Afton, Iowa. Apparatus for loading and unloading hay.....	322,618	July 21	1631	431	32	312
Lathrop, Kirke E., Afton, Iowa. Corn-harvester.....	323,046	July 23	2234	590 531	32	428
Lathrop, Levi B., Hollister, Cal. Baling-press.....	325,843	Sept. 8	839	210 211	32	1176
Lathrop, Thomas A., assignor of one-half to H. T. Warner, Canton, Ohio. Feed-water heater and filter.....	317,806	May 12	1173	311	31	746
Lathrop, William. (See McGregor and Flenniken, assignors.)						
Lathrop, William C., Milton Centre, Ohio. Grain-drill attachment.....	322,187	July 14	1062	275	32	202
Latimer, Frank H. (See Anderson and Latimer.)						
Latimer, John W., Newark, Ohio. Steam-heating boiler.....	316,274	Apr. 21	1788	470	31	3-7
Latimer, Thomas H., T. D. Md. Sulky-plow.....	314,691	Mar. 31	2225	592	30	1241
Latimer, William G. (See Davis and Latimer.)						
Latshaw, Hezekiah, Buffalo, N. Y. Hame.....	312,868	Feb. 24	1925	527	30	728
Latta, Adrian C. (See Latta, Emmitt G., assignor.)						
Latta, Adrian C. (See Latta, Emmitt G. and A. C.)						
Latta, Adrian C., Friendship, N. Y. Gear for tricycles.....	331,644	Dec. 1	604	140	33	1103
Latta, Adrian C., assignor of one-half to E. G. Latta, Friendship, N. Y. Driving-gear for mowing and reaping machines.....	311,132	Jan. 20	1284	533	30	251
Latta, Emmitt G. (See Latta, Adrian C., assignor.)						
Latta, Emmitt G., Friendship, N. Y. Bicycle.....	315,304	Apr. 7	442	112	31	80
Latta, Emmitt G., Friendship, N. Y. Bicycle.....	321,508	July 7	110	34, 35	32	21
Latta, Emmitt G., Friendship, N. Y. Trance-buckle.....	330,336	Nov. 10	1213	325	33	746
Latta, Emmitt G., assignor of one-half to A. C. Latta, Friendship, N. Y. Velocipede.....	323,695	Aug. 4	469	117	32	599
Latta, Emmitt G., assignor of one-half to A. C. Latta, Friendship, N. Y. Velocipede.....	326,782	Sept. 22	2069	578	32	1416
Latta, Emmitt G., assignor of one-half to A. C. Latta, Friendship, N. Y. Velocipede.....	327,399	Sept. 29	2146	763	32	1519
Latta, Emmitt G., assignor of one-half to A. C. Latta, Friendship, N. Y. Velocipede.....	324,225	Oct. 13	941	245	33	179
Latta, Emmitt G., assignor of one-half to A. C. Latta, Friendship, N. Y. Velocipede.....	328,693	Oct. 21	1345	408	33	259
Latta, Emmitt G., assignor of one-half to A. C. Latta, Friendship, N. Y. Velocipede.....	332,692	Dec. 8	1259	327	33	1291
Latta, Emmitt G., Friendship, N. Y., assignor to Pope Manufacturing Company, Hartford, Conn. Bicycle.....	312,277	Feb. 17	1129	309 310	30	573
Latta, Emmitt G., Friendship, N. Y., assignor to Pope Manufacturing Company, Hartford, Conn. Velocipede.....	322,733	July 21	1760	470	32	739
Latta, Emmitt G., Friendship, N. Y., assignor to Pope Manufacturing Company, Hartford, Conn. Velocipede.....	323,162	July 28	2382	632	32	458
Latta, Emmitt G., Friendship, N. Y., assignor to Pope Manufacturing Company, Hartford, Conn. Bicycle.....	324,264	Aug. 11	1173	248 319	32	746
Latta, Emmitt G., Friendship, N. Y., assignor to Pope Manufacturing Company, Hartford, Conn. Velocipede.....	324,568	Aug. 18	1574	435	32	831

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Latta, Emmitt G., Friendship, N. Y., assignor to Pope Manufacturing Company, Hartford, Conn. Velocipede.	325,944	Sept. 8	958	{ 243 244 }	{ 32 32 }	{ 1200 1200 }
Latta, Emmitt G., assignor of five-sixths to A. C. Latta, Friendship, H. D. Blakeslee and G. J. Letchworth, Buffalo, N. Y. Hame	332,262	Dec. 15	1501	303	33	1289
Latta, Emmitt G. and A. C. Friendship, N. Y. Velocipede.	322,113	July 14	965	251	32	184
Latta, Emmitt G. and A. C., Friendship, N. Y., assignors to Pope Manufacturing Company, Hartford, Conn. Velocipede.	325,420	Sept. 1	273	68	32	1067
Lattner, Jacob V., Dallas, Tex. Combined hedge-trimmer and mower.	311,333	Jan. 27	1579	431	30	311
Latulip, Frederic, assignor of one-half to E. Laas, Syracuse, N. Y. Chair-seat and chair.	317,382	May 5	612	157	31	635
Latulip, Frederic, assignor to R. E. Hover, Syracuse, N. Y. Die for the formation of chair-seats, backs, and similar articles from caoutchouc and other plastic material.	318,754	May 26	2442	653	31	997
Laubach, Henry H., <i>et al.</i> (See Schmidt, Theodore, assignor.) (Reissue.)	317,807	May 12	1174	311	31	746
Lauck, Clarence G. (See Heiney and Lauck)	315,844	Sept. 8	842	211	32	1177
Laude, Joseph, Monticello, Ark. Seed-planter.	315,150	Apr. 7	926		31	41
Lander, George, Pittsburg, Pa. Bessemer process.	310,732	June 9	1029	272	31	1247
Laner, Henry G. C., Iowa City, Iowa. Combined reclining and rocking chair.	317,560	Oct. 6	77	17	33	15
Laner, Jean P., and A. Velders, Buffalo, N. Y. Measuring device for oil-tanks.	325,095	Aug. 25	2304	674	32	974
Laughlin, Alexander W., Fairfield, Iowa. Wire-stitcher.	318,004	May 19	1450	388	31	806
Laughlin, Henry A., Pittsburg, Pa. Combined throttle and safety valve.	314,964	July 14	790	905	32	152
Laughlin, Homer, Eastonville, Colo. Stirrup.	323,163	July 28	2385	{ 332 333 }	{ 32 32 }	{ 458 458 }
Laughlin, John L., assignor to B. F. Avery & Sons, Louisville, Ky. Rotary cultivator.	323,164	July 28	2388	{ 333 334 }	{ 32 32 }	{ 458 458 }
Laughlin, Julian, St. Louis, Mo. Bicycle.	332,263	Dec. 15	1503	303	33	1281
Laughlin, William N., Midlothian, Tex. Stove-pipe joint.	319,102	June 2	211	55	31	1066
Lawman, Charles H., Pittsburg, Pa. Annealing-furnace for glass.	317,808	May 12	1174	311	31	746
Laundry, Adolphus J., Clyde, Kans. Stack-binder.	333,313	Dec. 29	2061	779	33	1558
Laurina, Thomas C. (See Willbanks, David A., assignor.)	318,123	May 19	1603	428	31	825
Laurence, Henry, Chicago, Ill. Stay for trunks, chests, &c.	320,226	Sept. 15	1347	348	32	1278
Laurence, Henry, Chicago, Ill. Sash-holder.	374,833	Aug. 25	1982	545	32	914
Laurier, Leopold J. A., St. Paul, Minn. Tobacco-moistening apparatus.	313,215	Mar. 3	258	65	30	821
Lautensack, Daniel, assignor of two-thirds to A. Kohn and O. Laske, Vienna, Austria-Hungary. Thermo-electric battery.	313,215	Mar. 3	258	65	30	821
Lauter, Isidor. (See Nitz, Ernest, assignor.)	328,590	Oct. 20	1418		33	273
Lauth, Bernard, Howard, Pa. Preparing steel-nail plates.	328,590	Oct. 20	1418		33	273
Lauth, Bernard C., <i>et al.</i> (See McCarty, William F. M., assignor.)	328,590	Oct. 20	1418		33	273
Laux, Isaac R., Wadsworth, Ohio. Clothes-wringer.	326,995	Sept. 29	2410	{ 629 630 }	{ 32 32 }	{ 1486 1486 }
Laux, Theophile, Long Island City, N. Y. Pole or shafts for vehicles.	326,301	Sept. 15	1461	380	32	1299
Lavallie, Victoria E., St. Albans, Vt. Shirt or dress placket.	333,498	Nov. 17	1443	386	33	796
Lavery, Dominick D., assignor to G. T. Giles, Chicago, Ill. Brush and broom holder.	323,225	Sept. 15	1346	348	32	1277
Lavery, George L., Boston, Mass. Heating device.	315,422	Apr. 7	608	156	31	109
Lavery, John W., <i>et al.</i> (See Shields, James H., assignor.)	322,298	July 14	1191	313	32	226
Lavery, Richard, Boston, Mass. Steam-boiler furnace.	330,592	Nov. 17	1556	417	33	817
Lavey, Thomas B., Bristol, R. I. Arctic overshoe.	318,755	May 26	2443	655	31	937
Lavigne, Joseph P. (See Johnson and Lavigne.)	322,299	July 11	1192	313	32	227
Lavigne, Joseph P., assignor to S. Halliwell, New Haven, Conn. Ripping device.	324,124	Aug. 11	971	267	32	711
Lavigne, Joseph P., assignor to J. Halliwell, New Haven, Conn. Embroidering attachment for sewing-machines.	326,302	Sept. 15	1462	320	32	1300
Lavigne, Joseph P., assignor to J. Halliwell, New Haven, Conn. Attachment-holding device for use on sewing-machines.	315,799	Apr. 11	1141	299	31	214
Law, James B., Darlington, S. C. Plow-gage.	332,540	Dec. 15	1891	494	33	1347
Law, James B., Darlington, S. C. Nut-lock.	323,612	Dec. 22	2409	617	33	1440
Law, James B., and C. Mooney, Darlington, S. C. Wagon-body.	323,165	July 28	2391	634	32	479
Law, Samuel H., Brooklyn, N. Y. Device for opening doors.	321,228	June 30	3080	817	31	1641
Law, Victor M., Cedar Rapids, Iowa. Filter.	330,410	Nov. 17	1332	355	33	774
Lawhon, George W. and W. Knoxville, Tenn. Cistern cut-off.	311,144	Nov. 24	2283	618	33	961
Lawhon, William. (See Lawhon, George W. and W.)	313,741	Mar. 10	950	248	30	964
Lawler, James J., Scranton, Pa. Plumb-bob for gas-fittings.	311,978	Dec. 8	1090	283	31	1202
Lawless, Levi M., Geneseo, Ill. Roller-skate.	316,983	May 5	68	18	31	575
Lawlor, James, Fall River, Mass. Split gear.	310,272	June 2	408	{ 108 109 }	{ 31 31 }	{ 1125 1125 }
Lawrason, George B. (See Hilzner, Robert, assignor.)	310,272	June 2	408	{ 108 109 }	{ 31 31 }	{ 1125 1125 }
Lawrence, Cook C., Monroe, Wis. Carriage-top.	329,635	Nov. 3	308	79	33	563
Lawrence, Edward F., <i>et al.</i> (See Clark, Norman, assignor.)	313,085	Mar. 3	60	16	30	789
Lawrence, Edwin, Brooklyn, N. Y. Lamp-burner.	319,494	June 9	712	192	31	1189
Lawrence Feltung Company. (See Smith, William A., assignor.)	312,278	Feb. 17	1131	310	30	574
Lawrence, Frank D. (See Forbes, Winslow, assignor.)	312,278	Feb. 17	1131	310	30	574
Lawrence, J. Franklin, assignor to J. Lawrence, Philadelphia, Pa. Combination scale, weight-tray, and type-box.	313,085	Mar. 3	60	16	30	789
Lawrence, John. (See Lawrence, J. Franklin, assignor.)	319,494	June 9	712	192	31	1189
Lawrence, John H., <i>et al.</i> (See Clark, Norman, assignor.)	312,278	Feb. 17	1131	310	30	574
Lawrence, John H., Sterling, Ill. Stay-roller for sliding doors.	312,278	Feb. 17	1131	310	30	574
Lawrence, John H., Sterling, Ill. Roller for sliding doors.	312,278	Feb. 17	1131	310	30	574
Lawrence, Joseph A., Sherman, Tex. Churn-power.	312,278	Feb. 17	1131	310	30	574
Lawrence, Louisa. (See Felbel, Jacob, assignor.)	312,278	Feb. 17	1131	310	30	574
Lawrence, Phillip J. (See Herrick and Lawrence.)	312,278	Feb. 17	1131	310	30	574
Lawrence, Sumner H. (See Williams, Thomas B., assignor.)	312,278	Feb. 17	1131	310	30	574
Lawrence, William, and H. V. Dibble, Bethel, Conn. Detachable hat-binding.	328,694	Oct. 20	1567	408	33	300
Lawrence, William A., Flushing, N. Y. Furrower, marker, and fertilizer-distributor combined.	313,504	Mar. 10	645	{ 167 168 }	{ 30 30 }	{ 905 905 }
Lawrence, William E., New York, N. Y. Curry-comb.	330,503	Nov. 17	1556	417	33	818
Laws, Albert D., assignor of one-half to G. Doolittle, Bridgeport, Conn. Machine for punching metallic strap-bands.	330,337	Nov. 10	1215	325	33	746
Laws, Spencer R., assignor to T. H. Patee, Greencastle, Ind. Holder for lightning-rods.	314,385	Mar. 24	1222	475	30	1141
Lawson, Albert and H., Baltimore, Md. Oyster-dredge windlass.	323,047	July 28	2226	591	33	429
Lawson, Henry. (See Lawson, Albert and H.)	323,047	July 28	2226	591	33	429
Lawson Non-Explosive Boiler Company. (See Kays, Thomas, assignor.)	321,119	June 30	2947	761	31	1616
Lawson, Peter Moline, Ill. Washing-machine.	333,235	Dec. 29	2267	749	33	1536
Lawson, Samuel G., Portland, Oreg. Glass-tube cutter.	333,235	Dec. 29	2267	749	33	1536

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Lawson, Thomas F., Athens, Ga. Basket	395,751	Sept. 8	795	181	33	1156
Lawton, Lyman T., assignor to Meriden Malleable Iron Company, Meriden, Conn. Extension-chandler	311,078	Jan. 20	1909	331	30	238
Lawton, Lyman T., assignor to Meriden Malleable Iron Company, Meriden, Conn. Lamp-hanger	318,756	May 26	2445	665	31	997
Lawton, Lyman T., assignor to Meriden Malleable Iron Company, Meriden, Conn. Suspension device	333,617	Dec. 22	2559	674	33	1477
Lawton, Walter, Winthrop, Mass. Coal-elevator	396,129	Sept. 15	1908	306	32	1238
Laybolt, Josiah, Wakefield, Mass. Saw-set	330,031	Nov. 10	894	211	33	666
Laybolt, Josiah, Wakefield, Mass. Machine for punching and setting saws	330,490	Nov. 17	1444	387	33	796
Lazarevitch, Constantin, assignor to himself and J. C. Lazarevitch, Brooklyn, N. Y. Fire-ladder	316,155	Apr. 21	1637	498	31	310
Lazarevitch, John C. (See Lazarevitch, Constantin, assignor.)						
Lazarus, Louis, Allegheny, Pa. Spectacle and eyeglass frame	319,733	June 9	1030	973	31	1947
Le Beau, John F., Toledo, Ohio. Filter	330,907	Nov. 24	1968	533	33	903
Le Clair, George, assignor of one-half to C. C. Brown, Mexico, N. Y. Tobacco-cutting machine	327,885	Oct. 6	453	126	33	86
Le Count, Charles W., South Norwalk, Conn. Cribbage-board	321,509	July 7	132	35	32	26
Le Gay, Edward J., Boston, Mass. Boot or shoe heel nailing machine	313,345	Mar. 3	436	110	30	857
Le Gay, Edward J., Boston, Mass. Mold for forming boot or shoe heels	323,301	July 14	1194	313	32	227
Le Gay, Edward J., Boston, Mass. Shoe-nail	324,126	Aug. 11	974	268	32	712
Le Gay, Edward J., Boston, Mass. Boot or shoe heel	324,127	Aug. 11	975	268	32	712
Le Gay, Edward J., Boston, Mass. Mold for boot or shoe heels	322,124	Oct. 13	804	209	33	152
Le Moynes, William M., Chicago, Ill. Fire-extinguisher	328,319	Oct. 13	1045	970	33	198
Le Page, William N., San Francisco, Cal. Armor for vessels, forts, &c.	314,456	Mar. 24	1910	510	30	1159
Le Ross, Thomas N., Rochester, N. Y. Mixed paint	319,984	June 16	1394		31	1316
Le Roy, Alphonzo, Dunkirk, and B. Martignoni, Westfield; said Martignoni assignor to G. B. Everts, Dunkirk, N. Y. Addressing-machine	325,945	Sept. 8	961	244	32	1200
Lea, Arthur H., Philadelphia, Pa. Car-coupling	315,151	Apr. 7	227	55	31	41
Lea, Samuel J., Chattanooga, Tenn. Wrench	330,504	Nov. 17	1557	417	33	818
Leach, Edwin E., Cedar Rapids, Iowa. Heating attachment for lamps	327,278	Sept. 29	2781	792	32	1551
Leach, George W., and J. H. Smith, Stewartsville, Mo. Washing-machine	316,795	Apr. 23	2513	656	31	475
Leach, Henry B., Boston, Mass. Self-closing faucet	323,114	July 14	967	252	32	185
Leach, James, et al. (See Bradshaw, John A., assignor.)						
Leach, Robert, Providence, R. I. Kaleidoscope	314,586	Mar. 31	2093	559	30	1917
Leadbeater, Frederick, Detroit, Mich. Steam-boiler furnace	326,877	Sept. 23	2248	586	32	1449
Leader Sewing Machine Company. (See Osborn, John H., assignor.)						
Leadley, John, Detroit, Mich. Conductor-hook	327,279	Sept. 29	2782	792	32	1551
Leadley, John, Detroit, Mich. Conductor-pipe	323,403	Dec. 15	1693	443	33	1314
Leager, Charles A., G. S. Pierce, and R. A. Canterbury, Franklin Grove, Ill.; said Pierce assignor to said Canterbury and Leager. Illuminating device	332,541	Dec. 15	1892	494	33	1347
Leahy, James F., et al. (See Wheeler, Henry H., assignor.)						
Leary, Benjamin, Woodstock, Vt. Foot-rest for shoeing horses	331,979	Dec. 8	1090	283	33	1202
Learned, Stephen D., Westerly, R. I. Automatic top-roll clearer	329,320	Oct. 27	2451	635	33	468
Leas, Asa, West Manchester, Ohio. Scoop-balance attachment for weighing-scales	330,595	Nov. 17	1558	417	33	818
Leatheroid Manufacturing Company. (See Andrews, Emery, assignor.)						
Leatheroid Novelty Company. (See Boynton and Stephen, assignors.)						
Leavenworth, Frank H., et al. (See Cowan, Miles R. B., assignor.)						
Leavitt, Albert. (See Busell, James H., assignor.)						
Leavitt, Alonzo R. (See Walp and Leavitt.)						
Leavitt, Charles, Cleveland, Ohio. Apparatus for compressing air and storing the same	320,492	June 23	2111	556	31	1455
Leavitt, Charles, Cleveland, Ohio. Mechanism for utilizing wave-power	321,229	June 30	3081	818	31	1642
Leavitt, Charles, Cleveland, Ohio. Wind-engine	321,985	July 14	791	206	32	152
Leavitt, Charles, and C. G. Canfield, Cleveland, Ohio. Car-wheel	310,527	Jan. 13	565	156	30	114
Leavitt, Frank M., Brooklyn, assignor to E. W. Bliss, New Utrecht, N. Y. Can-soldering machine	320,663	June 23	2250	691	31	1499
Leavitt, Frank M., New York, assignor to E. W. Bliss, Brooklyn, N. Y. Steam-pump	323,346	July 28	2653	706	32	505
Leavitt, Frank M., Brooklyn, assignor to E. W. Bliss, New Utrecht, N. Y. Adjusting-screw for die-presses	330,791	Nov. 17	1812	488	33	867
Leavitt, John J. and J. Q., Salt Lake City, Utah Ter. Oilier	314,692	Mar. 31	2226	592	30	1242
Leavitt, John Q. (See Leavitt, John J. and J. Q.)						
Leavitt, John S., Boston, assignor to J. W. Brooks, trustee, Cambridge, Mass. Tool for channeling boot or shoe soles	331,145	Nov. 24	2284	619	33	961
Leavitt, T. F. (See Coon, Willard W., assignor.)						
Leavitt, W. H. (See Walter, James F., assignor.)						
Lebasteur, Henri, and S. H. Rouart, Paris, France. Apparatus for automatically indicating or signaling the passage of trains upon railways	332,913	Dec. 22	2410	637	33	1449
Lebkuecher, Samuel. (See Woodmansee and Lebkuecher.)						
Lebkuecher, Thomas, Newark, N. J. Bracelet	324,125	Aug. 11	973	268	32	712
Lecraft, Frederick, Jersey City, N. J. Umbrella runner and notch	311,015	Jan. 20	1115	304	30	220
Lecture, William W. (See West, Theodore S., assignor.)						
Leddell, Charles S., Morristown, N. J. Bicycle	319,983	June 16	1391	386	31	1317
Leddell, Charles S., Morristown, N. J. Velocipede	320,073	June 16	1508	367	31	1339
Leddell, Charles S., Morristown, N. J. Velocipede. (Reissue)	10,673	Dec. 15	2107	400	33	1387
Leder, George, Demopolis, Ala. Artificial fuel	313,086	Mar. 3	61	557	30	769
Leder, George, Demopolis, Ala. Apparatus for extracting oil from cotton-seed	318,191	May 19	1067	452	31	850
Lederer, Benedict B., Providence, R. I. Bracelet	319,273	June 9	410	109	31	1125
Leduc, Alfred. (See Danry and Leduc.)						
Leduc, Constant, San Francisco, Cal. Life-preserver	315,950	Apr. 14	1354	351	31	251
Leduc, Constant, Stockton, Cal. Machine for making tule bunches for life-preservers	317,551	May 12	841	216	31	684
Leduc, Constant, Denver, Colo. Oyster-opening machine	332,403	Dec. 15	1694	444	33	1314
Ledward, Joseph, Westerly, R. I. Saw	312,133	Feb. 10	905	247	30	524
Ledward, Joseph, Westerly, R. I. Cotton-harvester	321,440	July 7	35	9	32	9
Ledward, Joseph, Westerly, R. I. Saw	325,679	Sept. 8	616	156	32	1136
Lee, Arthur M. (See Hargrave and Lee.)						
Lee, Arthur M. (See Koenig and Lee.)						
Lee, Charles B., Galveston, Tex. Apparatus for producing ammoniacal gas	322,458	July 21	1413	370	32	273

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Lee, Charles H., Centralia, Kans. Sugar-cane harvester.....	332,411	Dec. 15	1704	{ 446 447 }	33	1316
Lee, Charles T., Boston, Mass. Night signal-torch.....	314,033	Mar. 17	1360	354	30	1047
Lee, Cria, assignor of one-half to P. G. Reed, Paducah, Ky. Bash-holder.....	319,373	June 2	413	110	31	1126
Lee, Daniel, Sacramento, assignor to W. Gould, San Francisco, Cal. Feed-water heater.....	331,307	Dec. 1	69	17	33	1012
Lee, Earl, Corona, N. Y. Metal-covered roof for portable houses.....	318,370	May 19	1792	479	31	870
Lee, Frank B. (See Hannas and Lee.)						
Lee, George W., Ridgewood, N. Y. Detachable bosom.....	310,691	Jan. 13	683	188	30	138
Lee, Henry A. (See Burger and Lee.)						
Lee, Henry A. (See Thompson, Mark S., assignor.)						
Lee, J. Edward, Chicago, Ill. Display box and package for laces.....	321,731	July 7	425	113	32	80
Lee, James, Jr. (See Dowling and Lee.)						
Lee, James, Jr., Stonersville, assignor of one-half to C. Stols, Reading, Pa. Combined rake and tedder.....	319,274	June 2	411	{ 109 110 }	31	1125
Lee, John, San Francisco, Cal. Knit shirt.....	330,500	Nov. 17	1446	387	33	797
Lee, John E., Chippewa Falls, Wis. Buckle.....	314,693	Mar. 31	2227	592	30	1242
Lee, John E., Chicago, Ill. Handkerchief.....	321,732	July 7	427	114	32	80
Lee, John E., Chicago, Ill. Embroidery-envelope.....	324,854	Aug. 25	1983	545	32	914
Lee, John H. (See Lieb and Heins, assignors.)						
Lee, Julius T., Dryden, Mich. Bolting-chest and middlings-purifier.....	321,441	July 7	36	10	32	10
Lee, Lewis S., Philadelphia, Pa. Hair-clipping machine.....	331,508	Dec. 1	357	96	33	1062
Lee, Nathaniel, Brunswick, N. Y. Cider-press.....	325,252	Sept. 1	26	8	32	1020
Lee, Ogden G., Poughkeepsie, N. Y. Fire-escape.....	320,664	June 23	2353	621	31	1500
Lee, Robert, Cable, Ill. Elevator for mining purposes.....	318,757	May 26	9446	{ 655 656 }	31	997
Lee, Thomas, Cincinnati, Ohio. Peanut-roaster.....	320,804	June 23	2519	667	31	1539
Lee, Thomas, Cincinnati, Ohio. Peanut-roaster.....	322,351	Dec. 15	1616	424	33	1301
Lee, W. H., et al. (See Haynes, William, assignor.)						
Lee, William. (See Adams and Lee.)						
Lee, William A., Winfield, Kans. Plow.....	316,375	Apr. 31	1790	470	31	337
Leech, John F., Allegheny, Pa. Car-coupling.....	312,362	Feb. 17	1240	341	30	594
Leeds, Albert R., Hoboken, N. J. Apparatus for purification of water.....	323,431	Aug. 4	61	16	32	534
Leeds, Albert R., Hoboken, N. J. Apparatus for purification of water.....	323,432	Aug. 4	63	16	32	534
Leeds, Albert R., Hoboken, N. J. Automatic relief-valve in water-supply pipes.....	327,091	Sept. 29	2542	662	32	1508
Leeds, B. Frank, Boston, Mass. Combined snow scraper and compressor.....	323,433	Aug. 4	64	16	32	535
Leeds, Lodowick, New London, assignor, by mesne assignments, to B. L. Fenner, Versailles, Conn. Shuttle-planer.....	330,906	Nov. 24	1969	533	33	903
Leek, Ira G., San Francisco, Cal. Burglar-alarm.....	315,152	Apr. 7	230	56	31	42
Leek, John W., Cincinnati, Ohio. Buggy-boot.....	327,602	Oct. 6	390	101	33	68
Leeper, Grant, Medora, Iowa. Corn-planter.....	311,766	Feb. 3	397	108	30	423
Lees, Henry C., assignor to S. B. Schrack and G. H. Sherwood, Philadelphia, Pa. Upholstery trimming and making the same.....	317,151	May 5	298	76	31	578
Leeser, Lewis A., Baltimore, Md. Trunk.....	323,434	Aug. 4	65	17	32	535
Leets, John W., South Meriden, Conn. Fifth-wheel.....	316,276	Apr. 21	1790	470	31	337
Leets, John W., South Meriden, Conn. Thrill-coupling.....	319,914	June 9	1988	340	31	1992
Leetham, Sidney, York, county of York, England. Feed-regulator for roller-mills, &c.....	322,057	Oct. 27	2079	540	33	399
Lefever Arms Company. (See Lefever, Daniel M., assignor.)						
Lefever, Daniel M., assignor to Lefever Arms Company, Syracuse, N. Y. Breech-loading fire-arm.....	329,397	Oct. 27	2579	665	33	490
Lefèvre, Jean D., Guise, France. Plow.....	320,481	June 23	2109	556	31	1454
Leffingwell, Charles, Newark, N. J. Ash-sieve.....	310,447	Jan. 6	364	101	30	71
Leffler, Paul W., assignor to Craver, Steele & Austin, Grinnell, Iowa. Oil-cup.....	326,602	Sep. 22	1918	503	32	1390
Leffler, Paul W., assignor to Craver, Steele & Austin, Grinnell, Iowa. Double-tree.....	327,180	Sept. 29	2565	693	32	1529
Leffer, John C., and A. Swivel, Des Moines, Iowa. Railway-rail joint.....	322,300	July 14	1193	313	32	327
Lefranc, Louis, Traricy-le-Val, France. Extracting sugar from juices, sirups, &c.....	325,349	Sept. 1	155	32	1044	
Legate, Edgar A., Charlemont, Mass. Sheep-rack.....	310,697	Jan. 20	944	258	30	190
Legay, Jules E. (See Barrier, Tourville, and Legay.)						
Leger, John, and E. Keller, New York, N. Y. Combined door knob and stop.....	329,321	Oct. 27	2454	635	33	469
Leger, Joseph T., Waltham, Mass. Washing-machine.....	314,455	Mar. 24	1909	510	30	1159
Legg, Benjamin A., assignor to J. A. Jeffrey, Columbus, Ohio. Rock-drill.....	317,949	May 12	1363	366	31	782
Legg, Benjamin A., assignor to J. A. Jeffrey, Columbus, Ohio. Elevator.....	330,792	Nov. 17	1813	{ 488 489 }	33	967
Legg, William, et al. (See Dodsworth, David, assignor.)						
Leggett, Joseph P., Carrollton, Mo. Bed-spring.....	318,758	May 26	2451	656	31	998
Leggett, Stephen T., Big Rapids, Mich. Nut-lock.....	332,093	Dec. 8	1261	327	33	1232
Leggo, William A., New York, N. Y. Circuit-controller.....	329,398	Oct. 27	2582	665	33	490
Leggo, William A., New York, N. Y. Circuit-controller.....	329,399	Oct. 27	2583	666	33	491
Lehlbach, Gustav, Newark, N. J. Railway-frog.....	323,545	Aug. 4	263	77	32	570
Lehlbach, Gustav, Newark, N. J. Railway-crossing.....	333,226	Dec. 29	2968	750	33	1536
Lehman, Emanuel W., Carlisle, Pa. Cider-press.....	321,039	June 30	2835	755	31	1597
Lehman, John J., Portland, Mich. Land-roller.....	317,552	May 12	842	216	31	684
Lehman, Joseph. (See Shrock and Lehman.)						
Lehman, Leander, Harrisburg, Pa. Wagon end-gate.....	318,635	May 26	2283	610	31	967
Lehman, Otto A., Brooklyn, N. Y. Waist-belt clasp.....	319,276	June 2	414	110	31	1126
Lehmann, Richard, New York, N. Y. Lock for railway-switches.....	321,040	June 30	2837	755	31	1598
Lehmer, Isaac, Sturgis, Mich. Reversing-gear for traction-engines.....	320,665	June 23	2154	622	31	1500
Lehmer, William, Logansport, Ind. Tire-shrinker.....	331,070	Nov. 24	2167	588	33	941
Lehnardt, Reinhardt F., Detroit, Mich. Spring-seat for railway-cars.....	320,368	June 16	1942	519	31	1414
Lehrenkraus, Hermann, Stuttgart, Württemberg, Germany. Preparing extracts from cereals.....	312,869	Feb. 24	1926	.....	30	728
Leibe, Hugo, Baltimore, Md. Harness-saddle pad.....	331,509	Dec. 1	359	97	33	1062
Leibman, Frank J., New York, N. Y. Car-axle lubricator.....	315,042	Apr. 7	78	19	31	16
Leick, Mathias J. (See Horn and Leick.)						
Leidgen, Adam, Milwaukee, Wis. Plumb-bob.....	329,573	Nov. 3	2008	54	33	544
Leidy, Clement, and C. E. Green, Angus, Ohio. Car-coupling.....	313,216	Mar. 3	259	65	30	824
Leigh, James, Chelsea, Mass., and R. W. H. McDowell, Manchester, county of Lancaster, England, assignors, by mesne assignments, to Revere Rubber Company, Boston, Mass. Elastic tire for wheels.....	310,602	Jan. 13	894	242	30	175
Leighton, Edwin F., assignor of one-half to J. Serson, Boston, Mass. Galvanic battery.....	324,708	Aug. 18	1779	491	32	969
Leighton, Herbert J., Syracuse, N. Y., and J. Coffin, Johnstown, Pa. Graduated scale.....	325,036	Aug. 25	2305	634	32	974
Leinbach, Felix W., et al. (See Honias, William H., assignor.)						
Leinbach, Felix W., et al. (See Lorenz, William A., assignor.)						
Leinbach, Felix W., et al. (See Lorenz and Honias, assignors.)						
Leinbach, Felix W. C. A. Wille, and E. H. Brunner, Bethlehem, Pa., assignors to said Leinbach and Wille. Paper-bag machine.....	327,280	Sept. 29	2783	{ 723 724 }	32	1551

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Leineweber, Karl H. H., South Chicago, Ill. Car-brake.....	317,553	May 12	843	217	31	684
Leineweber, Karl H. H., South Chicago, Ill. Car-brake.....	317,554	May 12	844	217	31	685
Leininger, Ralph G., Philadelphia, Pa. Door-bolt.....	323,944	July 28	2078	553	32	401
Leipner, William A., and C. Brotherhood, Clifton, county of Bristol, England. Indicator for electric-bell circuits.....	322,619	July 21	1632	431	32	312
Leirer, Lorenz, Buda-Pesth, Austria-Hungary. Axle-box.....	323,909	Dec. 23	2261	526	33	1422
Leishman, William, Two Waters Mill, Hemel-Hempstead, county of Herts, England. Paper-making machine.....	318,378	May 19	1943	524	31	896
Leisner, Andreas W. (See Drew, Leisner, and Nelson.)						
Leitzel, Roswell J., and H. Frock, Kratzerville, Pa.; said Frock assignor to said Leitzel. Gate.....	320,805	June 23	2520	667	31	1532
Leland, George, Jacksonville, Fla. Combined umbrella and cane.....	322,656	Nov. 3	309	79	33	563
Leland, John J. (See Tiffany, Albert R., assignor.)						
Leman, Frank. (See Hunter and Leman.)						
Lemasena, Lillian. (See Lemasena, Theodore F., assignor.)						
Lemasena, Theodore F., Newark, N. J. Mold for cored objects of plastic material.....	325,878	Sept. 22	2250	526	32	1449
Lemasena, Theodore F., assignor to L. Lemasena, Newark, N. J. Top-prop.....	314,587	Mar. 31	2094	559	30	1218
Lemasena, Theodore F., assignor to L. Lemasena, Newark, N. J. Shoe.....	314,588	Mar. 31	2095	559	30	1218
Lemasena, Theodore F., assignor to L. Lemasena, Newark, N. J. Horse-collar mold.....	314,589	Mar. 31	2096	559	30	1218
Lemasena, Theodore F., assignor to L. Lemasena, Newark, N. J. Composition driving-pulley.....	318,759	May 26	2452	657	31	998
Lemay, Francis X., Crookston, Minn. Ditching-machine.....	330,909	Nov. 24	1970	533	33	903
Lemon, Albert, Washington, assignor of one-half to B. White, Peoria, Ill. Lamp attachment for show-globe brackets.....	325,845	Sept. 8	845	212	32	1177
Lemon, Richard A. (See Rademacher and Lemon.)						
Lemon, Sayre N., et al. (See Winchell, Addison H., assignor.)						
Lemos, Leon, San Francisco, Cal. Shirt.....	325,253	Sept. 1	27	8	32	1020
Lemp, Hermann, assignor to Schuyler Electric Light Company, Hartford, Conn. Electric switch.....	322,460	Nov. 3	39	11	33	512
Lemp, Hermann, assignor to Schuyler Electric Light Company, Hartford, Conn. Electric-arc lamp.....	322,461	Nov. 3	40	11	33	512
Lempereur, Joseph, and L. Bernard, Liege, Belgium. Lamp.....	333,237	Dec. 29	2269	750	33	1537
Lempert, Christian, Jacksonville, Oreg. Combined wardrobe and trunk.....	323,228	Dec. 29	2271	751	32	1537
Lenahan, James P. (See Byrne and Lenahan.)						
Lendrum, Alexander T., Mount View Terrace, Cork, county of Cork, Ireland. Machine for crushing and stemming tobacco-leaves.....	321,614	July 7	281	74	32	54
Langfeld, F. J. (See Mihills, Frank N., assignor.)						
Lenhardt, George, assignor of five-eighths to S. G. Kinney and A. E. Peppers, Detroit, Mich. Pump.....	316,631	Apr. 28	2263	526	31	422
Lennane, William E. (See Briody and McHale, assignors.)						
Lennard, Harry, Dundas, Ontario, Canada. Knitting stockings.....	315,043	Apr. 7	79	19	31	16
Lennon, William F. (See Weber, Jacob, assignor.)						
Lennox, Andrew J. (See McBride, Smith, and Lennox.)						
Lenox, Edwin S., assignor to Washburn & Moon Manufacturing Company, Worcester, Mass. Continuous rolling-mill.....	322,521	Oct. 20	1419	329	33	273
Lenox, Edwin S., F. H. Daniels, and J. D. Curtis, Worcester, Mass. Fence-wire fastener.....	310,833	Jan. 13	858	233	30	168
Lentz, August, et al. (See Quaglio, Julius, assignor.)						
Lentz, David H., assignor of one-third to J. Thomas, Indianapolis, Ind. Rolling-mill appliance.....	314,297	Mar. 24	1707	454	30	1120
Lenz, Charlotte, Cleveland, Ohio. Sewing-machine.....	320,666	June 23	2355	622	31	1500
Leonard, Charles A., et al. (See Dager, William B., assignor.)						
Leonard, Charles H. (See Tower, Daniel W., assignor.)						
Leonard, Charles H., Detroit, Mich. Fabric for wrappers.....	314,857	Mar. 31	2470	654	30	1287
Leonard, Charles N., assignor of one-half to C. Bradford, Indianapolis, Ind. Drawing-board.....	324,855	Aug. 25	1924	546	32	914
Leonard, Edwin K. (See Whitman, Irvin A., assignor.)						
Leonard, Francis H., Boston, Mass. Draft-regulator and soot-arrester for chimneys.....	316,796	Apr. 22	2514	657	31	475
Leonard, Frank, et al. (See Beaver, George W., assignor.)						
Leonard, George H., Landisburg, Pa. Tanning composition.....	326,753	Sept. 22	2072		32	1417
Leonard, Henry W. (See Annable and Leonard.)						
Leonard, Henry W., assignor to Syracuse Paper Ware Company, Syracuse, N. Y. Automatic belt-shifter.....	313,505	Mar. 10	647	168	30	906
Leonard, Henry W., Syracuse, and J. Stevens, Port Byron, assignors to Syracuse Paper Ware Company, Syracuse, N. Y. Calendaring-machine for paper-pulp sails, &c.....	316,984	May 5	69	18	31	535
Leonard, Henry W., Syracuse, and J. Stevens, Port Byron, assignors to Syracuse Paper Ware Company, Syracuse, N. Y. Machine for pressing the bodies of paper-pails.....	316,985	May 5	71	19	31	536
Leonard, James, et al. (See Dager, William B., assignor.)						
Leonard, John N., Warehouse Point, Conn. Display-case for goods.....	320,566	June 23	2217	587	31	1475
Leonard, Samuel S., assignor of one-half to Minnesota Brush Electric Company, Minneapolis, Minn. Electric switch.....	322,625	Oct. 20	1569	409	33	300
Leonard, Seth A., Ashtabula, Ohio. Larbo-dog.....	330,945	Nov. 10	1098	221	33	723
Leonard, Thomas W., Detroit, Mich. Hoof-pad.....	321,106	July 28	2392	634	32	459
Leonard, William W., Springfield, Mass. Vehicle device for checking horses.....	330,262	June 16	1756	467	31	1323
Leonardt, Frederick. (See Tickle and Leonardt.)						
Leonhardt, Adam, New York, N. Y. Vegetable-cutter.....	330,246	Nov. 10	1099	221	33	723
Leonhardt, John H. (See Leonhardt, William and J. H.)						
Leonhardt, John H., et al. (See Tompkins, William D., assignor.)						
Leonhardt, William, et al. (See Tompkins, William D., assignor.)						
Leonhardt, William and J. H., Waverly, Md. Dumping-wagon.....	319,497	June 9	718	193	31	1190
Leonhardt, William and J. H., Waverly, Md. Lumber-wagon.....	322,793	Oct. 20	1687	459	33	323
Leplat, Hippolyte, Paris, France. Process of and apparatus for baryta or strontia treatment of saccharine liquors and production and recovery of these reagents.....	310,448	Jan. 6	365	101	30	71
Lepley, Isaac, Amador City, Cal. Valve-gear for high-speed water-wheels.....	311,591	Feb. 3	179	50	30	322
Lepper, George W., St. Albans, Vt. Cultivator.....	324,265	Aug. 11	1176	319	32	749
Lerch, Felix A., Mount Carmel, Pa. Ironing table.....	332,404	Dec. 15	1695	444	33	1315
Lerchen, William, Lake City, Colo. Trace-buckle.....	312,567	Feb. 17	1525	415	30	647
Lerelle, Lucien, Paris, France. Pipe-coupling.....	330,134	Nov. 10	965	251	33	686
Leroux, Joseph N., assignor of one-half to F. A. Van Aarle, Toledo, Ohio. Car-coupling.....	321,372	June 30	2259	770	31	1676
Leshar, Charles P., Lansing, Mich. Fence-post.....	319,277	June 2	413	111	31	126
Lesley, Robert W., Philadelphia, Pa. Manufacture of Portland cement.....	313,217	Mar. 3	260		30	825
Lesley, Robert W., and D. Griffith, assignors to Pennsylvania Patent Right Company, Egypt, Pa. Manufacture of Portland cement.....	321,120	June 30	2248	721	31	1616
Lesley, Robert W., and D. Griffith, assignors to Pennsylvania Patent Right Company, Egypt, Pa. Manufacture of cement.....	321,121	June 30	2249		31	1616

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Lealie, Andrew, assignor to M. A. Lealie, St. Louis, Mo. Invalid-hammock	317,383	May 5	613	157	31	635
Leslie, Benjamin J., assignor, by means assignments, of one-half to S. E. Huddleston, Butler, Ky. Shovel-plow	320,074	June 16	1515	401	31	1340
Lealie, Edward, Orangeville, Ontario, Canada. Rotary excavator for removing snow, &c.	317,809	May 12	1175	312	31	746
Lealie, John W., Benton Harbor, Mich. Cover for fruit-baskets	313,873	Mar. 17	1145	298	30	1006
Lealie, Mary A. (See Leslie, Andrew, assignor.)						
Lealie, Thomas, Brooklyn, N. Y. Soldering-pan	313,218	Mar. 3	261	65	30	825
Lesperance, Alcandre, et al. (See Kirby, Jeremiah, assignor.)						
Lester, David, Lockport, N. Y. Device for administering baths	318,760	May 26	2453	657	31	999
Lester, Elisha F., Chittenden, N. Y. Windmill	312,134	Feb. 10	906	247	30	525
Lester, Harry B. (See King and Lester.)						
Lester, James S., Atlanta, Ga. Covering for brick-backs	314,457	Mar. 24	1911	510	30	1159
Lester, James S., assignor of one-third to J. F. Nutting, Atlanta, Ga. Drier	322,302	July 14	1196	314	32	227
Lester, L. P., et al. (See Balch, Andrew J., assignor.)						
Lester, Robert B., Brooklyn, N. Y. Watch-movement box	318,124	May 19	1604	429	31	835
Letchworth, George J., et al. (See Latta, Enmit G., assignor.)						
Letchworth, George J., Buffalo, N. Y. Line-ring for hanes	314,034	Mar. 17	1361	355	30	1047
Letchworth, George J., Buffalo, N. Y. Hame	321,122	June 30	2950	722	31	1616
Letchworth, George J., Buffalo, N. Y. Cockeye	325,946	Sept. 8	963	245	32	1201
Letchworth, Ogden P., Buffalo, N. Y. Hame	311,767	Feb. 3	400	109	30	423
Letsch, William F., Carlson Cliff, Ill. Potato-digger	320,369	June 16	1944	542	31	1415
Letson, Augustus F., and F. Honegger, Buffalo, N. Y. Explosive hand-grenade extinguisher	318,761	May 26	2455	657	31	999
Letter, George A., Chicago, Ill. Socket for twist-drills	321,615	July 7	282	75	32	54
Letterhant, Henry. (See Young, John E., assignor.)						
Lettré, Philipp, assignor to Sandland, Capron & Co., North Attleborough, Mass. Spring-hinged bracelet	318,379	May 19	1944	594	31	896
Lettré, Philipp, assignor to T. I. Smith & Co., Attleborough, Mass. Bracelet	331,798	Dec. 8	818	208	33	1152
Letzku, John, Allegheny, assignor to himself and C. F. McKenna, Pittsburg, Pa. Expansion-joint	327,221	Sept. 29	2786	725	32	1552
Lea, Frederick, Brooklyn, N. Y. Countersink	328,330	Oct. 13	1046	270	33	1984
Leuba, Philippe, Beaver, Utah Ter. Sextant	310,692	Jan. 13	684	188	30	1367
Leuffgen, Georg, Berlin, Germany. Glass-annealing furnace	313,347	Mar. 3	439	111	30	857
Leuffgen, Georg, Brunnshausen, near Stade, Prussia, Germany. Regenerative furnace	313,348	Mar. 3	441	111	30	858
Leuffgen, Georges, Berlin, assignor to C. A. W. Schön, Hamburg, Germany. Device for holding and shaping glassware	313,346	Mar. 3	438	112	30	857
Levalley, Christopher W., St. Paul, Minn. Elevator-chain	311,334	Jan. 27	1581	432	30	311
Levalley, Christopher W., St. Paul, Minn. Elevator	311,335	Jan. 27	1585	433	30	311
Levalley, Christopher W., St. Paul, Minn. Elevator	311,336	Jan. 27	1586	434	30	312
Levalley, Christopher W., St. Paul, Minn. Elevator	311,337	Jan. 27	1588	434	30	312
Lévesne, Eugène, assignor of one-half to H. Witzemann, Paris, France. Metal tube	330,910	Nov. 24	1973	533	33	904
Leve, Gustave, assignor to F. S. M. Blun, New York, N. Y. Berth for sleeping-cars	313,517	Apr. 14	751	198	31	140
Leveille, Michael H., Worcester, Mass. Canidor	312,074	Dec. 8	1262	322	33	1232
Lever, Charles, Bowdon, county of Chester, England. Electric-arc light	322,115	July 14	968	252	32	125
Leverentz, Henry, Chicago, Ill. Planing-machine attachment	316,156	Apr. 21	1639	429	31	317
Levering, Abraham. (See McMartin, James I., assignor.)						
Levering, William M., Philadelphia, Pa. Cable railway	315,800	Apr. 14	1142	300	31	214
Levering, William M., Philadelphia, Pa. Cable railway	318,495	June 9	713	192	31	1189
Levering, William M., Philadelphia, Pa. Cable railway	319,426	June 9	716	193	31	1189
Levering, William M., Philadelphia, Pa. Cable railway	326,754	Sept. 22	2073	538	32	1417
Levett, Henry H., Philadelphia, Pa. Carbon-holder	327,292	Sept. 29	2787	725	32	1552
Levette, Gilbert M., Indianapolis, Ind. Apparatus for extracting gold from placer mines	324,856	Aug. 25	1987	546	32	915
Levison, Chancellor G., assignor to T. B. Mills, Brooklyn, N. Y. Fly-book	323,239	Dec. 29	2873	751	33	1537
Levy, Henry, Clinton, Mo. Adjustable pitch-board for squares	327,293	Sept. 29	2788	725	32	1552
Levy, Isaac, Chicago, Ill. Combined table and bed	315,518	Apr. 14	752	198	31	140
Levy, Morris R., New York, N. Y. Sign or banner	323,696	Aug. 4	411	118	32	599
Levy, Sally M., Milwaukee, Wis. Knitting-machine	321,733	July 7	428	114	32	80
Lewen, John J. (See Joy and Lewen.)						
Lewis, Albert C. (See Broadnax, Amos, assignor.)						
Lewis, Albert C., Brooklyn, N. Y. Screw-sawing machine	328,951	Oct. 27	1911	499	33	370
Lewis, Alfred N., et al. (See Murray, Peter, Jr., assignor.)						
Lewis, Alva. (See Fitzpatrick and Lewis.)						
Lewis, Anderson, and E. Huff, Kernersville, N. C. Buggy	328,321	Oct. 13	1047	270	33	199
Lewis, Andrew, Cannon Falls, Minn. Mechanism for converting rotary into reciprocating motion	330,596	Nov. 17	1559	418	33	818
Lewis, Benjamin B., Bristol, Conn. Machine for fastening clock pinion-leaves	318,762	May 26	2455	658	31	999
Lewis, Benjamin B., West Stratford, Conn. Bottle-stopper	320,574	Nov. 3	200	55	33	544
Lewis, Benjamin F., Amesbury, Mass. Shaft-shackle	314,694	Mar. 31	2228	592	30	1242
Lewis, Charles P., Sweet Springs, W. Va. Spoke-setting machine	321,616	July 7	283	75	32	54
Lewis, Charles S., assignor to Waterbury Clock Company, Waterbury, Conn. Time-piece	312,479	Feb. 17	1402	386	30	680
Lewis, David D., Johnstown, Pa. Stopper for ladles	311,902	Feb. 19	596	163	30	466
Lewis, Edward F., Waterbury, Conn. Adjustable pitman	327,803	Oct. 6	591	101	33	64
Lewis, Edward H., Nashville, Tenn. Convertible chair	321,220	June 30	3082	818	31	1642
Lewis, Ellsworth J., Warrenton, Ohio. Steam steering apparatus	314,858	Mar. 31	2471	654	30	1287
Lewis, Eugene H., Chicago, Ill. Chemical hand fire-extinguisher	317,152	May 5	299	77	31	578
Lewis Foundry and Machine Company. (See Lewis, John L., assignor.)						
Lewis, Frederique R., Troy, N. Y. Fabric-cutting device	313,349	Mar. 3	443	112	30	858
Lewis, Hugh O., Portage, Wis. Attachment for cultivator and seeder teeth	310,290	Jan. 6	171	48	30	34
Lewis, Jennie L. (See Lewis, Theodore A., assignor.)						
Lewis, John A., Meridian, Miss., assignor to United States Cotton Seed Cleaning Company of New York. Steam heater or kettle for oleaginous substances	331,895	Dec. 8	964	249	33	1179
Lewis, John L., assignor to Lewis Foundry and Machine Company, (limited,) Pittsburg, Pa. Sheet-metal-corrugating roll	329,392	Oct. 27	2456	636	33	469
Lewis, Leidyard V., and S. S. Allen, San Prairie, Wis. Corn-harvesting machine	322,459	July 21	1415	370	32	374
Lewis, Lewis, Galveston, Tex. Reversible harness-hame	327,181	Sept. 29	2666	693	32	1530
Lewis, Lewis, Ironton, Ohio. Hitching device	332,914	Dec. 22	2411	637	33	1450
Lewis, Lyman P., Charlestown, and E. M. Scott, Everett, Mass. Bolt-heading machine	311,164	Jan. 30	1322	363	30	257
Lewis, Malcolm D. (See Barton, David C., assignor.)						
Lewis, Nathan C., assignor to C. Lovell, Boston, Mass. Wire-nail machine	326,226	Oct. 13	943	245	33	179

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Lewis, Nathan C., assignor to C. Lovell, Boston, Mass. Wire-nail machine.....	328,237	Oct. 13	946	{ 246 247 }	{ 33 33 }	180
Lewis, Orlando E. (See Robinson and Lewis.)						
Lewis, Richard G., and S. E. Mosher, Chillicothe, Ohio; said Mosher assignor to said Lewis. Shears.....	327,092	Sept. 29	2543	663	39	1508
Lewis, Richard V., and H. C. Conger, New York, N. Y. Dish-warmer.....	310,291	Jan. 6	173	48	30	34
Lewis, Samuel O. (See Young, Loy B., assignor.)						
Lewis, Sophronia T., Watertown, N. Y. Dress-chart.....	321,986	July 14	793	207	39	152
Lewis, Theodore A., New York, N. Y., assignor to J. L. Lewis. Shade-roller.....	330,987	Nov. 24	2074	562	33	923
Lewis, Wallace J., assignor of one-half to W. A. Sampson, Chicago, Ill. Valve-gear for duplex pumps.....	326,996	Sept. 29	2411	630	32	1486
Lewis, Wallace J., assignor of one-half to J. W. Addis, Tyler, Tex. Locomotive valve-gear.....	331,799	Dec. 8	819	208	33	1152
Lewis, Warren J., Leominster, Mass. Grate and coal cleaner.....	329,043	Oct. 13	696	123	33	133
Lewis, Wilbur W. (See Coples and Lewis.)						
Lewis, William H., Grand Crossing, Ill. Steam-generator.....	326,510	Sept. 15	1711	446	32	1346
Lewis, William H., assignor to E. & H. T. Anthony & Co., New York, N. Y. Camera-stand.....	312,363	Feb. 17	1942	342	30	504
Lewis, William H., assignor to E. & H. T. Anthony & Co., New York, N. Y. Photographic-printing frame.....	331,980	Dec. 8	1091	223	33	1202
Lewis, William R., Philadelphia, Pa. Link-bending machine.....	321,734	July 7	429	114	32	80
Ley, Francis, Vulcan Iron Works, county of Derby, England. Apparatus for raising and delivering grain, &c., onto an elevated platform.....	329,657	Nov. 3	310	79, 20	33	564
Leyshon, George, (See Taylor and Leyshon.)						
Lhote, George, New Orleans, La. Planing and resawing machine.....	328,794	Oct. 20	1688	439	33	323
Libbey, E. D. (See Locke, Joseph, assignor.)						
Libbey, Ivory, Lebanon, Me. Wheel cultivator and furrower.....	331,413	Dec. 1	232	60, 61	33	1039
Libby, Alphonso J. (See Roulestone, Edward A. G., assignor.)						
Libby, Asa S., Everett, Mass. Machine for picking up and arranging tacks, &c.....	316,467	Apr. 28	2061	540	31	391
Libby, Asa S., Everett, Mass. Tack-driving machine.....	316,966	May 5	73	19, 20	31	536
Libby, Asa S., Everett, assignor to Beal Lasting Machine Company, Boston, Mass. Shoe-lasting machine.....	317,384	May 5	615	158	31	635
Libby, Benjamin F., assignor to Norwalk Lock Company, South Norwalk, Conn. Door-knob attachment.....	321,827	July 7	581	151	32	107
Libby, Cyrus, Austin, Ill. Shoe.....	331,146	Nov. 24	2225	619	33	961
Libby, James L., New York, N. Y. Shirt-cabinet.....	322,303	July 14	1197	314	32	227
Libby, Robert H., Boston, Mass. Composite bar.....	332,405	Dec. 15	1696	444	33	1315
Libby, Robert H., Boston, Mass. Making composite bars.....	332,406	Dec. 15	1697	444	33	1315
Lichtenstadt, Philip, Chicago, Ill. Drying and burning bricks.....	325,680	Sept. 8	618	157	32	1137
Lichtenstein, Rudolph. (See Gordon, Norman N., assignor.)						
Lidback, John A., assignor of one-half to J. J. Gerrish, Portland, Me. Hydraulic railway-gate.....	323,314	Dec. 29	2981	780	33	1556
Liddell, John P. (See Hawthorn and Liddell.)						
Lie, Cornelius, Trondhjem, Norway. Fish-hook.....	330,793	Nov. 17	1815	489	33	867
Lieb, Charles A., New York, N. Y. Fire-escape and water-tower combined.....	316,735	Apr. 21	1918	{ 506 507 }	{ 31 31 }	360
Lieb, Charles A., New York, N. Y. Paper-punching press.....	329,323	Oct. 27	2457	636	33	469
Lieb, Charles A., New York, N. Y. Friction-pulley.....	329,575	Nov. 3	209	55	33	544
Lieb, Charles A., and C. L. Heins, New York, N. Y., assignors to said Heins and J. H. Lee, Norwalk, Conn. Ironing-machine.....	330,033	Nov. 10	825	212	33	666
Lieb, George, New York, N. Y. Mechanism for transmitting motion.....	324,709	Aug. 18	1781	492	32	869
Liebel, Hugo, North Attleborough, Mass. Bracelet.....	322,061	July 14	8	232	32	171
Liebel, Hugo, North Attleborough, Mass. Self-closing bracelet.....	332,719	Dec. 22	2156	569	33	1401
Lieberthal, Abraham, D. H., and E. H., Iron Mountain, Mich. Sample-box.....	329,658	Nov. 3	312	80	33	564
Lieberthal, Daniel H. (See Lieberthal, Abraham, D. H., and E. H.)						
Lieberthal, Elias H. (See Lieberthal, Abraham, D. H., and E. H.)						
Liebig, Gustav A., Jr., Baltimore, Md. Finger-exercising machine.....	318,916	May 26	2663	705	31	1036
Liebmann, Hermann F. W., assignor of one-half to H. K. Meyer, Chicago, Ill. File-cut-ting machine.....	323,874	Aug. 4	628	{ 177 178 }	{ 32 32 }	642
Liedel, Ludwig, Golden City, Mo. Bag-holder.....	310,210	Jan. 6	65	17	30	15
Liedel, Ludwig, Golden City, Mo. Self-dropping corn-planter.....	313,219	Mar. 3	261	66	30	825
Liepmann, Henry, London, county of Middlesex, England. Carbon electrode for electrolytical purposes.....	330,247	Nov. 10	1100	291	33	723
Liesche, August, assignor to J. R. Clancy, Syracuse, N. Y. Window-stop fastener.....	333,471	Dec. 29	2184	820	38	1591
Liggett, Mary J., Wooster, Ohio. Bed-cover fastener.....	331,308	Dec. 1	70	17	33	1012
Light and Fuel Company. (See Johnston, James J., assignor.)						
Lightburne, Stafford, Jr., St. Louis, Mo. Hose-coupling.....	310,834	Jan. 13	859	233	30	168
Lightburne, Stafford, Jr., St. Louis, Mo. Gasoline-stove.....	322,367	July 14	1314	342	32	949
Lightcap, William H., Hazel Green, Wis. Band-cutter and feeder for thrashing-machines.....	330,718	Nov. 17	1717	463	33	650
Lightfoot, Thomas B., Fenchurch street, London, England. Refrigerating apparatus.....	325,097	Aug. 25	2306	134	32	974
Lightlath Manufacturing Company. (See Wheeler, Frederick M., assignor.)						
Lightward, Henry J., Philadelphia, Pa. Boot-jack.....	329,576	Nov. 3	211	55	33	545
Ligibel, Adolph, Jersey City, N. J. Machine for riveting umbrella-frames.....	321,231	June 30	3023	819	31	1642
Ligowsky Clay Pigeon Company. (See Bloom, Jacob E., assignor.)						
Ligowsky Clay Pigeon Company. (See Holz, Fred, assignor.)						
Ligowsky Clay Pigeon Company. (See Ligowsky, George, assignor.)						
Ligowsky Clay Pigeon Company. (See Tripel, Benjamin, assignor.)						
Ligowsky, George, Cincinnati, Ohio. Molding pottery.....	318,917	May 26	2664	.....	31	1036
Ligowsky, George, assignor to Ligowsky Clay Pigeon Company, Cincinnati, Ohio. Flying target.....	311,768	Feb. 3	400	109	30	423
Lillenberg, Nils, and G. S. Dwight, New York, N. Y. Gas-producer for metallurgic operations.....	329,058	Oct. 27	2079	540	33	400
Lilla, Frank G., Springfield, Mass. Calipers.....	310,292	Jan. 6	173	48	30	34
Lilley, Hugh H. V., Milford, Mass. Key-ring.....	318,482	May 26	2073	560	31	931
Lilley, John, Sr. (See Stover, George W., assignor.)						
Lillie, S. Morris, Philadelphia, Pa. Bone-black drier.....	329,324	Oct. 27	2458	{ 626 627 }	{ 33 33 }	469
Lilly & Company, Eli. (See Lilly, Josiah K., assignor.)						
Lilly, George W., Centre, Mo. Shovel-fastener for cultivators.....	325,421	Sept. 1	277	68	39	1068
Lilly, Josiah K., assignor to E. Lilly & Company, Indianapolis, Ind. Jar for solid extracts.....	317,850	May 12	1365	367	31	783
Lilly, William H., Reading, Pa. Cigar-cutter.....	318,905	June 2	82	21	31	1063
Lilly, William H., Reading, assignor to H. B. Granley, Philadelphia, Pa. Cigar-tip cutter.....	330,597	Nov. 17	1590	418	33	818
Limprecht, Max. (See Steinke and Limprecht.)						
Limpus, Sherman E., Olathe, Kans. Wind-engine.....	329,914	Nov. 10	663	{ 169 170 }	{ 33 33 }	636

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Lincoln, Bacon & Co. (See Hellhorn, Francis F., assignor.)						
Lind, Andrew P. (See Blum and Lind.)						
Lindahl, Daniel, Chesterton, Ind. Stove	311,592	Feb. 3	181	51	30	382
Lindauer, Jacob J., New York, N. Y. Detachable button or stud	310,293	Jan. 6	174	49	30	34
Lindauer, Jacob J., New York, N. Y. Button or stud	323,167	July 28	2393	635	32	459
Lindberg, Ludvig F., Stockholm, Sweden. Revolving light apparatus	320,146	June 16	1610	426 427 428 429	31	1357
Lindblom, Charles A., New York, N. Y. Hammock-support	324,128	Aug. 11	976	269	32	712
Lindblom, William. (See Erickson and Lindblom.)						
Lindemann, Charles H., San Francisco, Cal. Music-leaf turner	327,698	Oct. 6	263	66	33	46
Lindemeyer, Philip, Jr., Jersey City, N. J. Gripper for printing-machines	323,168	July 28	2394	635	32	459
Lindenberg, Charles H., and E. G. Drake, Columbus, Ohio. Metallic helmet hat	318,192	May 19	1688	432	31	851
Lindenthal, Gustav, Pittsburg, Pa. Arch-bridge	311,338	Jan. 27	1589	435	30	312
Linders, Joseph, Winfield, W. Va. Coffee-pot stand	323,315	Dec. 29	2928	781	33	1559
Lindgren, August, assignor to Moline Plow Company, Moline, Ill. Wheel-plow	323,169	July 28	2394	635	32	459
Lindgren, August, assignor to Moline Plow Company, Moline, Ill. Wheel-plow	322,952	Oct. 27	1913	500	33	371
Lindgren, George A., assignor of one-half to E. E. Weir and F. R. Carson, La Porte, Ind. Chemical fire-extinguisher	323,170	July 28	2396	636	32	459
Lindle, Joseph, Chicago, Ill. Combined water cooler and filter	320,483	June 23	2113	557	31	1455
Lindle, Joseph, Chicago, Ill. Water-cooler and refrigerator	320,484	June 23	2114	557	31	1455
Lindley, Thomas H., and F. M. Robinson, Lyons, Iowa. Device for chromatic printing	330,719	Nov. 17	1718	463	33	850
Lindner, Carl A., Louisville, Ky. Sofa-bed	332,412	Dec. 15	1707	447	33	1316
Lindner, Ernest. (See Lange and Lindner.)						
Lindo, Philip, Delft, Holland. Car-coupling	325,947	Sept. 8	963	245	32	1201
Lindon, Osmond S., San Francisco, Cal. Water-filter	321,681	Sept. 8	619	157	32	1137
Lindsay, John P., New York, N. Y. Stocking-supporter	319,985	June 16	1395	367	31	1318
Lindsay, Samuel D., Jacksonville, Ill. Register for measuring wire fencing	333,137	Dec. 29	2734	718	33	1513
Lindsay, William, South Ashburnham, Mass. Folding chair	328,322	Oct. 13	1048	271	33	198
Lindsay, William E. (See Woods and Lindsay.)						
Lindsey, Charles B., and D. N. Goddard, Mount Vernon, Ill. Hame-tug	310,693	Jan. 13	685	188	30	136
Lindsey, Edwin F., Bristol, R. I. Counterboring attachment for laths	333,418	Dec. 29	2119	611	33	1580
Lindsey, George M., assignor to H. S. Dulaney, Baltimore, Md. Pulley-covering	330,598	Nov. 17	1561	418	33	819
Lindsley, Aaron L., Chicago, assignor of one-half to W. Drummond, Jr., Oak Park, Ill. Roof	332,790	Dec. 29	2157	569	33	1402
Lindsley, Edward, Cleveland, Ohio. Casing for street-cocks in gas and water service	327,561	Oct. 6	76	17	33	15
Lindsley, James M., Grove City, Ill. Nut-lock	321,735	July 7	431	115	32	81
Lindsley, Joseph H., White House, N. J. Hog-ringing pincher	324,391	Aug. 18	1347	366	32	789
Lindsley, William E., Philadelphia, Pa. Filtering device	312,735	Feb. 24	1738	478	30	695
Line, Francis, Detroit, Mich. Combination of asbestos board, asbestos felt, or asbestos paper with other flexible material	333,138	Dec. 29	2735	718	33	1513
Line, Daniel, and C. T. Long, Milano, Tex. Stock-car	326,755	Sept. 22	2076	539 540	32	1418
Lines, George, Holloway, and A. Bridgman, Stoke-Newington, county of Middlesex, Eng. Band. Box-nailing machine	318,918	May 26	2665	706 707	31	1036
Lines, John, assignor to Scovill Manufacturing Company, Waterbury, Conn. Buckle	312,210	Feb. 10	1027	281	30	546
Lines, John, assignor to Scovill Manufacturing Company, Waterbury, Conn. Gudgeon for window-shade rollers	325,422	Sept. 1	278	69	32	1069
Lines, Thomas D., Syracuse, N. Y. Vehicle-body support	313,350	Mar. 3	444	112	30	858
Lines, Thomas D., Syracuse, N. Y. Spring-coupling	322,734	July 1	1784	470	32	340
Lingen, Hermann, Wheeling, W. Va. Measuring-jacket	312,211	Feb. 10	1028	281	30	546
Lingle, George W., and J. F. Roop, Stryker, Ohio. Machine for forming car-blades	318,763	May 26	2457	658 659	31	999
Linham, Robert E., assignor of two-thirds to B. B. McVay and J. Allison, Mansfield, Ohio. Salky-plow	311,016	Jan. 20	1116	305	30	220
Link Belt Machinery Company. (See McQuire, Henry, assignor.)						
Link Belt Machinery Company. (See Pearce, Frank I., assignor.)						
Link, Michael. (See Gilles and Link.)						
Linnenbrügge, Adolf W. F. G. (See Nagel, Kaemp, and Linnenbrügge.)						
Linney, Charles L., Danville, Ky. Portable bath-house	327,284	Sept. 29	2789	725	32	1562
Linney, Charles L., assignor of one-half to E. B. and T. E. Linney, Danville, Ky., and J. S. Linney, Osceola, Mo. Toy bubble-blower	327,400	Sept. 29	2949	770	32	1580
Linney, E. B., et al. (See Linney, Charles L., assignor.)						
Linney, J. S., et al. (See Linney, Charles L., assignor.)						
Linney, T. E., et al. (See Linney, Charles L., assignor.)						
Linquist, Maurice F., New Haven, Conn. Shoulder-brace	329,659	Nov. 3	313	80	33	564
Linsley, Joel, Burlington, Vt. Refrigerator	310,211	Jan. 6	66	18	30	15
Linsley, Joel, and J. A. Baldwin, Burlington, Vt. Portable folding table	319,915	June 9	1289	340	31	1292
Linthicum, Isaac, Liberty, Nebr. Car-coupling	315,801	Apr. 14	1144	300	31	215
Lintner, William H. H., Little Falls, N. Y. Apparatus for moistening stamps, envelopes, &c.	332,542	Dec. 15	1893	495	33	1347
Linton, Albert J., South Saginaw, and R. D. Stewart, Saginaw, Mich. Device for adjusting saw-fastenings	312,870	Feb. 24	1927	527	30	728
Linton, Edward F., assignor to Unexcelled Fire Works Company, East New York, N. Y. Rocket	310,598	Jan. 13	566	156	30	114
Lipe, John, Seward, N. Y. Hop-trellis	317,385	May 5	616	158	31	635
Lipe, Walter. (See Ludlow, Charles A., assignor.)						
Lippert, Ernst T., Pittsburg, Pa. Inseparable saw-tooth	317,656	May 12	977	252	31	708
Lippincott, Jesse H. (See Schulze-Berge, Hermann, assignor.)						
Lippincott, John, Baltimore, Md. Manufacture of tubing	330,338	Nov. 10	1216	325 326	33	746
Lipps, Jacob K. (See Trachsel, Lipps, and Turney.)						
Lippy, David, assignor of one-half to P. Ott, Mansfield, Ohio. Cash-carrier	326,130	Sept. 15	1209	309	32	1252
Lippy, David, and P. Ott, Mansfield, Ohio. Cash-carrier	326,131	Sept. 15	1211	309 310	32	1253
Lippy, David, and P. Ott, Mansfield, Ohio. Cash-carrier	328,323	Oct. 13	1049	271	33	199
Lipsey, Andrew B., West Hoboken, N. J., assignor to W. Bell, New York, N. Y. Gas-burner	312,279	Feb. 17	1132	310 311	30	574
Lispenard, George. (See Ball and Lispenard.)						
List, Adolph. (See Fahlberg, Constantin, assignor.)						
List, Adolph. (See Fahlberg, Constantin, assignor.) (Reissue.)						
List, Henry, et al. (See Davis, John P., assignor.)						
List, William A., Wheeling, W. Va. Sheet-metal roofing-anchor	332,413	Dec. 15	1708	447	33	1316

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Listerud, Hans, Sacred Heart, Minn. Plow	327,562	Oct. 6	80	18	33	15
Liston, Alfred, and W. H. Naver, Emerson, Iowa. Check-row corn-planter	323,048	July 28	2237	{ 591 592 }	32	429
Litchfield, Arthur. (See Rider, John, assignor.)						
Litchman, John B., Marblehead, Mass. Shoe-maker's jack	331,414	Dec. 1	223	61	33	1039
Littell, Hardin H. (See Littell, Harvey M., assignor.)						
Littell, Hardin H., Louisville, Ky. Combined splice-bar and car-replacer	317,386	May 5	617	158	31	636
Littell, Hardin H., Louisville, Ky. Railway-rail	319,278	June 2	415	111	31	1126
Littell, Harvey M., St. Paul, Minn., assignor of one-half to H. H. Littell, Louisville, Ky. Track-scraaper for railways	320,363	June 16	1757	467	31	1383
Littell, Norris. (See Moss and Littell.)						
Little, Thomas J., Philadelphia, Pa. Inkstand	326,044	Sept. 8	1091	278	32	1223
Little, Charles E., assignor to S. Mordan & Company, London, England. Pencil-case	331,896	Dec. 8	965	249	33	1179
Little, Charles G., Brooklyn, N. Y. Sewing-chair	322,547	July 21	1532	404	32	225
Little Giant Ice Machine Company. (See Holden, Daniel L., assignor.) (Reissue.)						
Little, James L., Jr. (See Gardner, Ernest M., assignor.)						
Little, James R., assignor, by mesne assignments, to Quincy Metal Wheel Company, Quincy, Ill. Manufacture of metal wheels	313,004	Feb. 24	2093	571	30	759
Little, Samuel C., Mount Vernon, Ind. Flooring	323,697	Aug. 4	412	118	32	600
Little, Samuel W., Evansville, Ind., assignor to E. P. Allis & Co., Milwaukee, Wis. Saw-mill carriage	330,720	Nov. 17	1790	464	33	850
Little, Sumner B., Chapin, Iowa. Cultivator	330,147	June 16	1613	429	31	1357
Little, William G., The Priory, Conisbore, county of York, England. Gas-carburetor	322,116	July 14	971	253	32	185
Littlefield, Augustine F., Lynn, Mass., assignor to Goodyear & McKay Sewing Machine Company, Hartford, Conn. Machine for heating out welts	330,075	June 16	1516	402	31	1340
Littlefield, Charles W., Amesbury, Mass. Sash-fastener	325,464	Sept. 8	845	212	32	1178
Littlefield, Dennis G., Albany, N. Y. Oven for cooking stoves and ranges	313,871	Mar. 17	1146	299	30	1007
Littlefield, Roger S., Empire City, Oreg. Building jetties	324,857	Aug. 25	1969	547	32	915
Littlejohn, Charles M. (See Kirby and Littlejohn.)						
Littleton, Adam D., and J. M. Clark, Des Moines, Iowa. Automatic advertising device	326,997	Sept. 29	2413	630	32	1486
Livermore, Charles F., trustee. (See Waite, Henry E., assignor.)						
Livermore, Charles F., trustee. (See Waite and Bartlett, assignors.)						
Livesey, Fernando H. W. (See Livesey, James and F. H. W.)						
Livesey, James and F. H. W., Victoria Mansions, Westminster, county of Middlesex, England. Reversible seat or bed frame	324,129	Aug. 11	977	269	32	712
Livingston, George, Okaloosa, Iowa. Billiard-table leveler	330,911	Nov. 24	1973	534	33	904
Lloget y Sarda, José, Barcelona, Spain. Manufacturing iron and steel	324,790	Aug. 18	1869	39	32	890
Lloyd, A. Parlett, and F. Y. Macdonald, Baltimore, Md. Lighting device for street lamps	315,902	Apr. 14	1144	300	31	215
Lloyd, Albert, and W. F. Glydon, Birmingham, county of Warwick, England. Manufacture of scissors	315,305	Apr. 7	445	{ 112 113 }	31	81
Lloyd, Edwin L., assignor of one-half to C. Joly, Philadelphia, Pa. Bottle-stopper	325,181	Aug. 25	2415	663	32	994
Lloyd, George E., Chicago, Ill. Stereotype-plate-roughing machine	333,018	Dec. 22	2562	673	33	1477
Lloyd, H. P. (See Sagendorph, L. Lewis, assignor.)						
Lloyd, Harlan P. (See Sagendorph, L. Lewis, assignor.)						
Lloyd, John J., Streator, Ill. Mining-tool	332,472	Dec. 29	3185	631	33	1591
Loafman, John E., Liberty Hill, Tex. Combined cotton and corn planter	326,756	Sept. 22	2077	540	32	1418
Loar, James, assignor of one-half to J. N. Smith, Catlettsburg, Ky. Cutter-head	321,828	July 7	583	151	32	107
Lobdell, Caleb S., Stormville, Miss. Can-opener	313,351	Mar. 3	444	112	30	858
Lobdell Car Wheel Company. (See Dunn, George, assignor.)						
Lobdell, Henry L., et al. (See Tyler, George, assignor.)						
Lobeck, Charles O. (See Huber, William B., assignor.)						
Lobeck, Emilio, Havana, Cuba. Sugar-cane top and leaf cutter	330,135	Nov. 10	966	{ 251 252 }	33	696
Lobin, William D., et al. (See Brown, Thomas S., assignor.)						
Lobnitz, Julius, Madisonville, Ohio. Panel-raising machine	312,364	Feb. 17	1243	{ 342 343 }	30	594
Loch, Joseph, New York, N. Y. Sash-balance	328,324	Oct. 13	1062	272	33	199
Lochmann, Paul, Gohlis, near Leipzig, Saxony, Germany. Apparatus for spraying medicines	316,468	Apr. 28	2062	540	31	391
Locke, Charles S. (See Briggs and Locke.)						
Locke, Charles S., Joliet, Ill. Seed-planter	317,810	May 12	1177	313	31	747
Locke, Favour, Bristol N. H. Loading-winch	319,279	June 2	416	111	31	1126
Locke, Jesse A., Milford, Mass. Mechanism for sewing linings or sweat-bands into hat-bodies	312,260	Feb. 17	1134	311	30	574
Locke, Joseph, Medford, assignor to E. D. Libbey, Winchester, Mass. Glass and producing the same	316,561	Apr. 28	2164	570	31	411
Locke, Joseph, and W. Bowker, Medford, assignors, by mesne assignments, to themselves and R. Williams, Boston, Mass. Electric-wire insulator	316,469	Apr. 28	2063	541	31	391
Locke, Sylvanus D., Hoosick Falls, N. Y. Stop-motion gearing	316,797	Apr. 28	2515	657	31	475
Locke, William R., New Richmond, Ohio. Adjustable harrow, sled, and marker	311,903	Feb. 10	596	163	30	467
Lockhart, James L., et al. (See Robinson, William, assignor.)						
Lockhart, Jesse, Niantio, Ill. Clamp for railway-rails	327,225	Sept. 29	2790	726	32	1532
Lockhart, John M., Allegheny, Pa. Washing-machine	311,133	Jan. 20	1265	353	30	261
Lockie, Peter, Rochester, N. Y. Clothes-drier	328,852	Oct. 20	1763	460	33	337
Lockwood, Charles L., Philadelphia, Pa. Paper box	331,600	Dec. 8	890	209	33	1152
Lockwood, Charles S., assignor to Bonallate Company, (limited), Albany, N. Y. Treating alkaline silicates	317,389	May 5	621	.....	31	636
Lockwood, Charles S., Albany, N. Y., and J. W. Hyatt, Newark, N. J., assignors to Bonallate Company, (limited), Albany, N. Y. Treating alkaline silicates, &c.	317,387	May 5	618	.....	31	636
Lockwood, Charles S., Albany, N. Y., and J. W. Hyatt, Newark, N. J., assignors to Bonallate Company, (limited), Albany, N. Y. Treating silicate of soda in combination with zinc oxide, &c.	317,388	May 5	620	.....	31	636
Lockwood, Charles S., Albany, N. Y., J. W. Hyatt and J. H. Stevens, Newark, N. J., assignors to Bonallate Company, (limited), Albany, N. Y. Treating gelatine when combined with tannic acid, &c.	317,390	May 5	622	.....	31	636
Lockwood, Edwin W., Nevada, Iowa. Device for dressing millstones	324,392	Aug. 18	1347	366	32	789
Lockwood, George W. (See Carpenter and Lockwood.)						
Lockwood, Jeremiah, and W. Crary, Sullivan, Ind. Gate	311,339	Jan. 27	1591	435	30	313
Lockwood, Lee, Des Moines, Iowa. Grain separator and cleaner	311,904	Feb. 10	598	{ 163 164 }	30	467
Lockwood, Peter. (See Taylor and Lockwood.)						
Lockwood, Rhodes, Boston, Mass. Hard-rubber spring-bar for surgical and other instruments	323,098	Aug. 4	413	118	32	600
Lockwood, Rhodes, Boston, Mass. Inkstand	324,393	Aug. 18	1348	367	32	790

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Lockwood, Samuel T., Chicago, Ill. Packer for bran and other articles.....	325,254	Sept. 1	28	9	32	1020
Lockwood, Thomas D. (See Vansize and Lockwood.)						
Lockwood, Thomas D., Malden, Mass. Battery-telephone.....	312,871	Feb. 24	1928	527	30	728
Lockwood, Thomas D., Malden, Mass. Electric signaling circuit.....	314,386	Mar. 24	1823	485	30	1143
Lockwood, William C., Brooklyn, assignor to T. Wallace, New York, N. Y. Telephone.....	331,309	Dec. 1	70	18	33	1012
Lockwood, Willshire, St. Louis, Mo. Artificial limb.....	314,458	Mar. 24	1912	510	30	1150
Lockwood, Willshire, St. Louis, Mo. Artificial limb.....	315,519	Apr. 14	753	189	31	140
Loder, John S., Leadville, Colo. Ore-concentrating jigger.....	331,071	Nov. 24	2167	588 589	33	942
Lodge, Littleton W. T., assignor to Novelty Manufacturing Company, Indianapolis, Ind. Cuff-holder.....	319,280	June 2	417	111	31	1127
Loebig, Jacob, Chicago, Ill. Sofa-bed.....	321,305	June 30	3171	845 846	31	1650
Loebig, J. Frederick, Philadelphia, Pa. Combined jelly-glass and money-box.....	326,757	Sept. 22	2078	540	32	1418
Loeb, Albert H., Rochester, assignor to Wheeler, Madden & Clemson Manufacturing Company, Middletown, N. Y. Back-saw.....	326,045	Sept. 8	1092	278	32	1223
Loefelholz & Co. (See Bowen, Philip A., assignor.)						
Loeffler, August, Tompkinsville, N. Y. Instantaneous shutter for photographic lenses.....	313,677	Mar. 10	863	225	30	948
Loeber, Lazarus, assignor to G. Bamberger and L. Boelling, receiver, New York, N. Y. Pen.....	331,903	Nov. 24	2366	640	33	977
Loescher, F. Louis. (See Kuntzel and Loescher.)						
Loetscher, Christian, Dubuque, Iowa. Boiler-furnace.....	314,537	Mar. 24	2029	541	30	1179
Loewenthal & Morganstern. (See Hoyt, Albert T., assignor.)						
Loewenthal, Siegmund, Aoton, county of Middlesex, England. Manufacture of ornamental wall-covering, leather-cloth, &c.....	327,286	Sept. 29	2791		32	1533
Loewer, Henry, et al. (See Hatfield, Charles B., assignor.)						
Löffelhardt, Wilhelm, Hamburg, assignor to G. Haller, Ottensen, near Hamburg, Germany. Machine for feeding letters to stamping-dies.....	311,340	Jan. 27	1592	435 436 437 438 439	30	313
Lofia, Frank P. H., San Francisco, Cal. Grip-car for cable railways.....	323,817	Aug. 4	557	158 159	32	628
Loftus, James F., Winton, Pa. Coal and rock drill.....	328,495	Oct. 20	1285	334	33	250
Loftus, John, Albany, N. Y. Injector.....	326,758	Sept. 22	2079	541	32	1418
Loftus, John, assignor of one-half to P. Kinneer, Albany, N. Y. Feed-water injector.....	311,500	Feb. 3	56	16	30	359
Logan, Arthur C., et al. (See Parsons, Calvin W., assignor.)						
Logan, Benjamin S., Lebanon, Pa. Tuiere-iron.....	311,017	Jan. 20	1118	305	30	221
Logan, James, Otterville, Mo. Plow-beam and attachment.....	310,694	Jan. 13	687	188	30	136
Logan, Jane, et al. (See McCarty, William F. M., assignor.)						
Logan, John, Waltham, Mass. Apparatus for polishing metal ribbon.....	328,125	Oct. 13	805	210	33	152
Logan, John, Waltham, Mass. Testing and grading balance-wheels of watches.....	329,915	Nov. 10	664	170	33	636
Logan, John, Waltham, Mass. Apparatus for testing and grading watch-balances.....	329,916	Nov. 10	666	170	33	636
Logan, John B., assignor of one-third to J. P. Power, Baltimore, Md. Water-tower.....	311,905	Feb. 10	600	164	30	467
Logan, Marshall L., Tyrone, assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Artificial tooth-crown.....	310,294	Jan. 6	174	49	30	34
Logan & Strobridge. (See Culmer, John W., assignor.)						
Logan, Thomas H., Lowell, Mass. Device for connecting picking-traps to the picking-sticks of looms.....	325,350	Sept. 1	157	43	32	1044
Logan, William, Prairie du Sac, Wis. Fence-wire-winding device.....	315,603	Apr. 14	1146	300	31	215
Logan, William H., Millerstown, Pa. Stove.....	318,380	May 19	1945	525	31	898
Logan, William M., Etna, Pa. Brick-machine.....	323,818	Aug. 4	559	159	32	628
Logee, Henry F., Stillwater, Minn. Steam-boiler indicator and alarm.....	331,201	Dec. 8	891	209	33	1152
Logemann, Fredrick H., St. Louis, Mo. Knockdown chair.....	319,281	June 2	418	112	31	1127
Logemann, Adolph. (See Gieseler, Franklin B., assignor.) (Reissue.)						
Loiseau, Emilo F., Philadelphia, Pa. Machine for mixing and molding artificial fuel and other granulated materials.....	311,341	Jan. 27	1593	436	30	313
Lomas, Henry E., Cresco, Iowa. Ticket-chart.....	326,870	Sept. 22	2251	567	32	1449
Lomas, John R., assignor of one-half to B. Shoninger, New Haven, Conn. Orchestra-chime.....	317,391	May 5	623	150	31	636
Lomas, John R., assignor of one-half to B. Shoninger, New Haven, Conn. Piano sounding-board.....	320,264	June 16	1758	467	31	1384
Lomas, William B., Brooklyn, N. Y. Banjo.....	313,378	Mar. 3	445	113	30	850
Lomax, George H., Somerville, Mass. Lantern.....	325,255	Sept. 1	29	9	32	1021
Lomax, Rush R., Plum Hollow, Iowa. Attachment for cultivators.....	317,392	May 5	624	150	31	637
Lombard, Levi W. (See Hood and Lombard.)						
Lombard, Levi W., Boston, Mass. assignor, by mesne assignments, to Lang Hydraulic Machine Company, Portland, Me. Differential piston-meter.....	331,247	Nov. 24	2432	658	33	987
Loneragan, John E., Philadelphia, Pa. Lubricating-oil cup.....	314,695	Mar. 31	2229	593	30	1242
Loneragan, Thomas, et al. (See Manuel, David, assignor.)						
Long, Alexander, Leipsic, Ohio. Ditching-machine.....	314,859	Mar. 31	2473	655	30	1287
Long & Allstatter Company. (See Long, John M. W., assignor.)						
Long, Alpheus C., Edgar, Ill. Lifting-jack.....	331,415	Dec. 1	235	61	33	1039
Long, Amos M., Monroe, Mich. Inhaler.....	313,745	Mar. 10	961	248	30	964
Long, Amos M., Monroe, Mich. Inhaler.....	321,904	July 7	678	176	32	123
Long, Charles T. (See Lince and Long.)						
Long, Charles W., Eaton, Ohio. Vehicle-wheel.....	322,186	July 14	1063	276	32	202
Long, Curtis M., Allegheny, Pa. Steam-engine.....	326,303	Sept. 15	1464	380 381	32	1300
Long, Curtis M., Allegheny, Pa. Lubricating apparatus.....	326,304	Sept. 15	1465	381	32	1300
Long, Edwin, Iowa City, Iowa. Clutch.....	328,126	Oct. 13	806	210	33	153
Long, Edwin, assignor to E. Shepard, W. B. Carpenter, Iowa City, Iowa, R. and A. Ellwood, Sycamore, Ill. Wire-stretcher.....	322,460	July 21	1417	371	32	274
Long, George S., assignor to himself and G. W. Williams, Hartford, Conn. Wheel.....	320,076	June 10	1517	402	31	1341
Long, George S., assignor to G. W. Williams, Hartford, Conn. Manufacture of barrels.....	329,059	Oct. 27	2093	541	33	400
Long, Horace B., Worcester, and E. L. Hill, West Upton, Mass.; said Long assignor to said Hill. Milk-aerator.....	323,347	July 28	2655	706	32	505
Long, James. (See Dollison and Long.)						
Long, James N., assignor of one-half to D. Coulter, Philadelphia, Pa. Fire-place niche.....	324,710	Aug. 18	1782	492	32	869
Long, Jeremiah A., Akron, and E. L. Babcock, Cuyahoga Falls, Ohio. Wheel for agricultural implements.....	331,248	Nov. 24	2436	659	33	988
Long, John M., Hamilton, Ohio. Horse-rake.....	312,645	Feb. 24	1621	446	30	675
Long, John M., Hamilton, Ohio. Punching device.....	316,470	Apr. 28	2065	541	31	392
Long, John M., Hamilton, Ohio. Horse hay-rake.....	329,917	Nov. 10	667	170 171	33	637
Long, John M., Hamilton, Ohio. Punching-press.....	329,918	Nov. 10	668	171	33	637
Long, John M. W., Hamilton, Ohio. Roller-skate.....	325,214	Aug. 25	2460	676	32	1003
Long, John M. W., Hamilton, Ohio. Lubricator.....	326,998	Sept. 29	2414	631	32	1486

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Long, John M. W., assignor to Long & Allstatter Company, Hamilton, Ohio. Cultivator.	329,919	Nov. 10	669	171	33	637
Long, John S., assignor to himself and J. Bastien, Murphysborough, Ill. Saw-set.	336,305	Sept. 15	1466	361	32	1300
Long, John W., Welder, Tex. Harmonic attachment for key-board musical instruments.	320,148	June 16	1014	430	31	1357
Long, M. Lukens, Philadelphia, Pa. Dental chair.	320,106	June 23	2521	668	31	1533
Long, Nathan H., Muncie, Ind. Broom-holder.	325,682	Sept. 6	619	157	32	1137
Long, Nathan H., assignor of one-half to E. W. Bishop, Muncie, Ind. Roller-skate.	324,130	Aug. 11	078	209	32	712
Long, Richard, assignor of one-half to S. D. Pryce, Iowa City, Iowa. Road-grading machine.	312,480	Feb. 17	1403	387	30	624
Long, Sarah B., San Francisco, Cal. Lid for gas-stoves.	325,083	Sept. 8	020	157	32	1137
Long, Thomas, Boston, Mass. Faucet.	333,139	Dec. 29	2736	718	33	1513
Long, Thomas C. (See McFarland, James, assignor.)						
Long, Walter L., Melrose, Va. Double-tree.	313,433	Mar. 3	549	144	30	879
Long, William H. (See Johnson and Long.)						
Long, William S., assignor to himself, D. Treadway, W. J. H. Brown, and L. C. Good, St. Louis, Mo. Coating and coloring coffee.	326,227	Sept. 15	1348		32	1278
Longbottom, Christopher, Bradford, county of York, England. Sash or door fastener.	333,240	Dec. 29	2874	751	33	1538
Longcor, Leonard S., and W. M. Dawson, Belvidere, Ill. Buggy-top support.	317,811	May 12	1180	313	31	747
Longden, Charles E., assignor to Seamless Rubber Company, New Haven, Conn. Exercising-bag.	318,766	May 26	2462	680	31	1000
Longley, William J., Mount Vernon, N. Y. Platon-rod.	333,140	Dec. 29	2737	719	33	1513
Longley, William J., Mount Vernon, N. Y., and C. Elkin, Jersey City, N. J. Automatically disinfecting water-closets, urinals, &c.	311,192	Jan. 27	1372	376	30	273
Longmore, Lewis F. (See Osgood and Longmore.)						
Longmore, Lewis F., assignor of two-thirds to C. W. Morey, Lowell, and G. A. Byam, Chelmsford, Mass. Hose-coupling.	320,939	June 30	2702	717	31	1573
Longmore, Lewis F., Lowell, assignor of one-half to G. A. Byam, Chelmsford, Mass. Car-replacing jack.	330,942	Nov. 17	1878	508	33	879
Longnecker, George W., Winchester, Ind. Buckle.	319,734	June 9	1031	273	31	1247
Longnecker, Jacob M., et al. (See Smith, Seth H., assignor.)						
Longridge, James A., Westminster, England. Locomotive-engine.	323,045	July 28	2231	590	32	428
Longshaw, Thomas, East Orange, N. J. Hat felting and sizing machine.	317,555	May 12	840	217	31	685
Longshaw, Thomas, Watessing, N. J. Hat felting and sizing machine.	323,171	July 28	2398	636	32	460
Longstreet, J. Holmes. (See Wright and Longstreet.)						
Longstreth, John L., assignor of three-fourths to H. B. French, Philadelphia, Pa., S. H. and W. A. French, Haddon township, Camden county, N. J. Feed-water apparatus.	328,325	Oct. 13	1052	273	33	200
Longview Kelly Plow Manufacturing Company. (See Kelly, George A., assignor.)						
Lonney, Thomas F., East New York, N. Y. Submarine rock-breaker.	315,520	Apr. 14	754	199	31	141
Look, Fredrick A., Bridgeport, Conn. Fastening for horse-blankets.	326,228	Sept. 15	1349	349	32	1278
Loomer, Jasper D., Minneapolis, Minn. Revolving colter.	328,127	Oct. 13	807	210	33	153
Loomis, D. S. (See Engelhard, Frank, assignor.)						
Loomis, Frank F., Akron, Ohio. Fire-alarm-telegraph box.	323,435	Aug. 4	65	17	32	535
Loomis, George W., Syracuse, N. Y. Cylinder-cock.	325,256	Sept. 1	30	9	32	1021
Loomis, James A., Arkansas City, Kans. Washing-machine.	329,577	Nov. 3	212	55	33	545
Loomis, Osborn P., Lynn, Mass. Arc lamp.	324,778	Aug. 18	1874	515	32	887
Loomis, Osborn P., and H. W. Cooley, Lynn, Mass. Electric-arc-lamp out-out.	332,721	Dec. 22	2157	509	33	1402
Loomis, Oscar M. (See Jackson, Loren G., assignor.)						
Loomis, Samuel L., Wright's Station, Cal. Fruit-jar.	318,483	May 26	2074	560	31	931
Loop, A. Irwin, assignor of one-half to W. H. Stetson and C. Loop, North East, Pa. Steam-engine governor.	330,411	Nov. 17	1333	355	33	775
Loop, Charles, et al. (See Loop, A. Irwin, assignor.)						
Looper, John A., Rockpile, Ga. Car-coupling.	318,767	May 26	2464	680	31	1001
Loose, John, Brooklyn, N. Y. Sled-propeller.	328,415	Oct. 13	1192	308	33	225
Loppentien, Johann D., Pittsburg, Pa. String-holder for violins.	323,513	Aug. 4	171	50	32	554
Lorch, Hermann, Milwaukee, Wis. Food product.	318,764	May 26	2460		31	1000
Lorch, Hermann, Milwaukee, Wis. Preparing and curing spelt.	318,768	May 26	2464		31	1001
Lord, Albert C., Northfield, N. H. Eyeglasses.	322,461	Jan. 21	1418	371	32	274
Lord, Almon, assignor to W. H. Hankin, Brooklyn, N. Y. Saw.	311,435	Jan. 27	1719	468	30	336
Lord, Andrew H., assignor to C. H. Hitchcock and J. A. Cooper, Chicago, Ill. Tile-setting.	320,567	June 23	2218	587	31	1475
Lord, Dana J., South Farmington, Wis. Device for forming the interior of wells.	314,387	Mar. 24	1825	485	30	1143
Lord, George W. (See Burton and Lord.)						
Lord, Henry S., Hartford, Conn. Water-closet supply-valve.	322,388	July 14	1315	342	32	250
Lord, Henry S., Hartford, Conn. Water-closet valve.	330,843	Nov. 17	1879	508	33	879
Lord, Henry S., assignor to Hartford Glass Water Closet Company, Hartford, Conn. Attachment for water-supply cocks.	312,872	Feb. 24	1929	528	30	728
Lord, Henry S., assignor to R. J. Allyn, Hartford, Conn. Auger-bit.	329,660	Nov. 3	314	80	33	564
Lord, James L., assignor of one-fourth to P. P. Sherry and H. Robinson, Lynn, Mass. Rotary heel-trimmer.	328,853	Oct. 20	1763	400	33	337
Lord, James L., and N. Ross, Lynn, Mass. Heel-trimming machine.	328,854	Oct. 20	1765	400	33	337
Lord, Simon, and W. H. Dalley, St. Louis, Mo. Inlet-nozzle for stand-pipes.	315,521	Apr. 14	758	201	31	141
Lord, Tyler C., Joliet, Ill., assignor to F. Guild, Canton, Mass. Paper shoe.	311,018	Jan. 20	1119	305	30	221
Lord, William H., New York, N. Y. Speed-clock for machinery.	328,592	Oct. 20	1421	370	33	274
Lore, George V., assignor to himself and W. H. Gilliland, Fayette, N. Y. Draft-regulator.	316,552	Apr. 28	2165	570	31	411
Lorenz, Conrad, New York, N. Y. Press-board for cigar-boxes.	331,510	Dec. 1	360	97	33	1062
Lorenz, Phillip W., et al. (See Scott, Jeremiah F., assignor.)						
Lorenz, Wilhelm, Vienna, Austria-Hungary. Baking or cooking oven for continuous working.	314,144	Mar. 17	1504	392	30	1073
Lorenz, Wilhelm, Karlsruhe, Baden, Germany. Forming handles for cutlery.	317,393	May 5	625	159	31	617
Lorenz, Wilhelm, Karlsruhe, Baden, Germany. Lock for ordnance.	318,765	May 26	2460	659	31	1000
Lorenz, Wilhelm, Karlsruhe, Baden, Germany. Cartridge.	331,511	Dec. 1	361	97	33	1063
Lorenz, William A., Hartford, Conn., assignor to F. W. Leinbach and C. A. Wollé, Bethlehem, Pa. Manufacture of paper bags.	329,662	Nov. 3	317	81, 82	33	565
Lorenz, William A., and W. H. Honiss, Hartford, Conn., assignors to F. W. Leinbach and C. A. Wollé, Bethlehem, Pa. Paper bag.	329,661	Nov. 3	315	81	33	565
Lorenz, William A., and W. H. Honiss, Hartford, Conn., assignors to F. W. Leinbach and C. A. Wollé, Bethlehem, Pa. Paper-bag machine.	331,721	Dec. 1	712	176	33	1124
Lorenz, William A., and W. H. Honiss, Hartford, Conn., assignors to F. W. Leinbach and C. A. Wollé, Bethlehem, Pa. Paper-bag machine.	331,722	Dec. 1	714	178	33	1124
Lorenz, William A., and W. H. Honiss, Hartford, Conn., assignors to F. W. Leinbach and C. A. Wollé, Bethlehem, Pa. Paper-bag machine.	331,723	Dec. 1	720	179	33	1125

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Lorey, William, Jr. (See Wiehle, Lorey, and Feuchter.)						
Lorillard, Pierre, Jr. (See Bencke and Lorillard.)						
Lorimer, John H., Philadelphia, Pa. Cotton-drier	332,543	Dec. 15	1895	495	33	1348
Loring, Harrison. (See McIntyre and Loring.)						
Loring, Harrison, and L. K. Jewett, Boston, Mass. Railway-car	337,093	Sept. 29	2544	663	32	1509
Loring, Samuel, Duxbury, and E. S. Morton, Plymouth, Mass. Wire-nail-making machine.	314,233	Mar. 24	1641	435	30	1108
Loring, Samuel, Duxbury, and E. S. Morton, Plymouth, Mass. Machine for pointing wire-nails.	319,735	June 9	1032	273 274	31	1247
Loring, Thomas D. and A. P. Giles, Booth Bay, Me., assignors to Knickerbocker Ice Company, Philadelphia, Pa. Ice-planer	329,400	Oct. 27	2554	666	33	491
Lormor, Charles T., Superior, Nebr. Valve	320,807	June 23	2522	668	31	1513
Lorsch, Moses S., New York, N. Y. Water-proof garment	317,812	May 12	1181	314	31	747
Lorsch, Moses S., New York, N. Y. Securing miners' lamps to hats, caps, &c.	324,131	Aug. 11	979	210	32	713
Lorton, Britton. (See Mertz and Lorton.)						
Loryea, Abram M., New York, N. Y. Disinfecting apparatus for water-closets	314,590	Mar. 31	2096	560	30	1218
Loesch, William G. (See Harner and Loesch.)						
Lose, John O., Paterson, N. J. One-wheeled vehicle	325,548	Sept. 1	448	111 112	32	1101
Loose, Jacob C. (See McManes and Loose.)						
Loose, Henry, Pinckneyville, Ill. Fire-engine	331,510	July 7	133	35	32	27
Lothrop, Charles H., Lyons, Iowa. Telegraph cut-out	324,711	Aug. 18	1783	492	32	870
Lothrop, George H. (See Jackson and Chambers, assignors.)						
Lott, Adrian T., assignor to himself and J. L. Gatti, Coldwater, Miss. Car-coupling	338,617	Dec. 15	1096	523	33	1367
Lott, Arthur, Riddleville, Tex. Brace-wire fastening for wire fences	326,911	Sept. 22	2296	601	32	1457
Lottridge, Francis M. (See Simpson, Lottridge, and Carter.)						
Lotz, William H., Chicago, Ill. Hoisting-machine	314,696	Mar. 31	2221	593 584 585	30	1243
Loud, Waldo A., assignor to Blair Manufacturing Company, Springfield, Mass. Lawn-mower	319,827	June 9	1167	306 309	31	1271
Louden, William, Fairfield, Iowa. Hoisting single-tree	315,423	Apr. 7	609	156	31	109
Louden, William, Fairfield, Iowa. Hay elevator and carrier	328,896	Oct. 20	1621	475	33	347
Louden, Charles F., et al. (See Ackermann, George, assignor.)						
Louden, Charles F., Cincinnati, Ohio. Cartridge-loading implement	310,295	Jan. 6	176	49	30	34
Loudon, Joseph H., Westerlo, N. Y. Traveling emery-wheel for card-grinders	323,172	July 28	2399	636	32	460
Lounsberry, John H., Westfield, Mass. Steam-radiator	321,232	June 30	3086	819	31	1642
Love, Albert. (See McCormick, Charles W., assignor.)						
Love, J. W., et al. (See Gladish, William J., assignor.)						
Love, John J., New York, N. Y. Piston for steam-engines	326,046	Sept. 8	1093	279	32	1223
Love, Thomas C., Evansville, Ind. Paddle-wheel for vessels	317,657	May 12	978	232	31	708
Love, William, Port Huron, Mich. Feed-water heater	315,306	Apr. 7	446	113	31	81
Lovegrove, Thomas G., assignor of one-half to Sherman & Delaplaine, Philadelphia, Pa. Blow-off apparatus	320,878	June 23	2613	692	31	1550
Lovejoy, Henry H., Cambridge, N. Y. Potato-digger	331,724	Dec. 1	723	180 181	33	1125
Lovelace, Walter A., assignor of one-half to D. G. Stone, Negaunee, Mich. Charcoal-kiln	327,804	Oct. 6	392	102	33	69
Lovelace, William A., Lovelacoville, Ky. Water-gate	328,697	Oct. 20	1623	475	33	348
Loveland, Calvin, assignor to himself and F. Whipple, Spencer, Wis. Machine for dressing saw-teeth	321,617	July 7	984	75	32	54
Loveless, Charles B., Worthington, Minn. Spark arrester and consumer	314,037	Mar. 31	2235	594	30	1243
Loveless, Charles B., Worthington, Minn. Ventilator	315,522	Apr. 14	758	201	31	141
Loveless, Charles B., Worthington, Minn. Ventilator	319,590	June 9	850	236	31	1213
Loveless, Leodidas W., Lafayette, Ind. Cash-box	319,408	June 9	719	193	31	1190
Lovell, Clinton. (See Lewis, Nathan C., assignor.)						
Lovell Manufacturing Company. (See Lovell, Melvin N., assignor.)						
Lovell, Melvin N., Erie, Pa. Adjustable spring bed-bottom	318,381	May 19	1946	525	31	898
Lovell, Melvin N., assignor to Lovell Manufacturing Company, (limited), Erie, Pa. Tempering wire springs, &c.	315,424	Apr. 7	609	157	31	109
Lovell, Melvin N., assignor to Lovell Manufacturing Company, (limited), Erie, Pa. Apparatus for tempering wire springs	315,457	Apr. 7	656	169	31	117
Lovell, Orville D. (See Silver, Thomas, assignor.)						
Loveren, Charles I., Brooklyn, N. Y. Chuck for gem-settings	321,041	June 30	2638	755	31	1596
Loveren, Charles I., Brooklyn, N. Y. Pin-stem	332,264	Dec. 15	1704	393	33	1281
Loveridge, James W., Jersey City, N. J. Hot-air feeder for furnaces	319,828	June 9	1169	309	31	1271
Lovett, Arthur S. (See Baker, Lovett, and Van Etten.)						
Lovett, Arthur S., Erie, Pa. Burial-case and coffin	331,991	Dec. 8	1092	284	33	1202
Lovett, Arthur S., Erie, Pa. Coffin	331,992	Dec. 8	1093	284	33	1203
Lovett, John, Indianapolis, Ind., assignor to R. B. Powers, E. P. Denison, J. B. Dongan, and A. H. Moore. Roller-skate	311,841	Feb. 3	468	134	30	440
Lovett, John, Indianapolis, Ind., assignor of one-third to J. Pickering, Cincinnati, Ohio. Combined washer and hunchpin	333,078	Dec. 22	2639	691	33	1490
Lovett, Joseph S. II., Trenton, N. J. Pottery-press	320,060	Oct. 27	2063	541	33	400
Low, Albert H., Denver, Colo. Signal-call for telephone-offices	329,825	July 21	1920	509	32	365
Low, Albert H., Denver, Colo. Magneto-call for telephones	327,866	Oct. 6	465	127	33	86
Low, James E., Chicago, Ill. Artificial denture	313,434	Mar. 3	550	144	30	879
Low, James E., Chicago, Ill. Artificial denture	319,889	June 9	1171	309	31	1271
Low, Jesse B., Watertown, N. Y. Galvanic battery	324,856	Aug. 25	1969	547	32	915
Low, Joel B., San Francisco, Cal. Ore-crushing machine	329,750	Nov. 3	437	111	33	587
Low, Joel B. and A. K. Grim, San Francisco, Cal. Cable railway	313,002	Mar. 10	769	202	30	929
Low, Joshua, Steubenville, Ohio. Siphon	310,863	Jan. 13	695	242	30	175
Low, Joshua, Steubenville, Ohio, assignor to T. B. McCrystal. Siphon-cork	327,401	Sept. 29	2950	770	32	1580
Lowbridge, Jabez, assignor of one-half to P. Walter, Jr., Allegheny, Pa. Car-starter	317,394	May 5	696	159 160	31	637
Lowe, Austin, assignor to himself and T. D. Hale, Minneapolis, Kans. Railway-gate	326,306	Sept. 15	1467	382	32	1301
Lowe, Austin, Minneapolis, Kans., assignor to G. W. Barney, Warsaw, Ind. Weather-strip	327,563	Oct. 6	81	18	33	15
Lowe, Charles, Reddish, near Stockport, county of Lancaster, England. Manufacture of derivatives of aurine	316,471	Apr. 28	2066		31	392
Lowe, Charles, Reddish, near Stockport, county of Lancaster, England. Manufacture of the derivatives of aurin	318,484	May 26	2075		31	931
Lowe, Harry, Montpelier, Vt. Nose-band for overdraw-checks for bridles	319,916	June 9	1290	341	31	1292
Lowe, Henry. (See Polak and Lowe.)						
Lowe, J. Stewart, et al. (See Jewett, Thomas B., assignor.)						
Lowe, John. (See Thayer and Lowe.)						
Lowe, John, New Britain, Conn. Ox-bow fastening	326,229	Sept. 15	1350	349	32	1278

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Lowe, Nathaniel M. (See Bassett, Ernest A., assignor.)						
Lowe, Samuel S., and G. R. Johnson, Upper Alton, Ill. Nut-lock	328,416	Oct. 13	1193	309	33	225
Lowe, William, Bridgeport, Conn. System of traveling transfer-crane	310,449	Jan. 6	367	102	30	71
Lowe, William, Bridgeport, Conn. Furnace-front	310,835	Jan. 13	860	233	30	169
Lowell, Franklin B., Marinette, Wis. Transporting loads over ice and snow roads	318,553	Apr. 28	2166	570	31	411
Lowell Oiler Company. (See Humphrey, Henry P., assignor.)						
Lowen, John C., Titusville, Pa. Combined truck and ladder	310,836	Jan. 13	861	233	30	169
Lowe, Joseph E. (See Fletcher, John R., assignor.)						
Loweth, Charles F., et al. (See Loweth, John T., assignor.)						
Loweth, Daniel, et al. (See Loweth, John T., assignor.)						
Loweth, John T., assignor of one-half to D. Loweth, Jefferson, Ohio, and C. F. Loweth, St. Paul, Minn. Safety-gate for car-platforms	321,373	June 30	3260	{ 870 871 }	{ 31 31 }	{ 1676 1676 }
Lowrie, Harvey C., Denver, Colo. Flushing-siphon	310,529	Jan. 6	460	127	30	89
Lowrie, Harvey C., Denver, Colo. Self-locking man-hole cover for sewers, street-vaults, &c.	317,153	May 5	300	77	31	578
Lowrie, Harvey C., Denver, Colo. Rod joint or coupling	317,154	May 5	304	77	31	578
Lowrie, Harvey C., Denver, Colo. Rod joint or coupling	317,155	May 5	305	78	31	579
Lowrie, Harvey C., Denver, Colo. Sewer-cleaning apparatus	317,156	May 5	306	78	31	579
Lowrie, Harvey C., Denver, Colo. Flexible coupling or joint for wooden rods	317,157	May 5	309	78	31	579
Lowrie, Harvey C., Denver, Colo. Straight-edge for laying drain-pipes	317,158	May 5	310	78	31	579
Lowrie, Harvey C., Denver, Colo. Mechanism for converting motion	324,132	Aug. 11	980	270	32	713
Lowrie, Harvey C., Denver, Colo. Wash-bowl	327,094	Sept. 29	2546	{ 663 664 }	{ 32 32 }	{ 1509 1509 }
Lowrie, Harvey C., Denver, Colo. Switching-wheel for street-cars	327,095	Sept. 29	2548	664	32	1509
Lowry, Albert, Lisbon, Dak. Ter., assignor of one-half to G. N. Lamphere, Moorehead, Minn. Grain-cultivator	325,549	Sept. 1	449	112	32	1101
Lowry, Emory F., Jamestown, Ind. Horsehoe	317,658	May 12	979	233	31	709
Lowth, James, Chicago, Ill. Telephone	312,365	Feb. 17	1245	343	30	595
Lowth, James, Chicago, Ill. Telephone	312,366	Feb. 17	1240	343	30	595
Lowther, Benjamin F., Garrett, Ind. Flue-welding machine	330,844	Nov. 17	1881	{ 508 509 }	{ 33 33 }	{ 879 879 }
Loze, Eugene, and A. Heliers, Fleurus, Belgium. Filter	319,917	June 9	1291	341	31	1292
Lozier, Henry, et al. (See McGlinchey, Charles E., assignor.)						
Lübbert, H., Alexander C., Guaymas, Mexico. Car-coupling	311,663	Feb. 3	267	74	30	399
Lublinski, David, Schwetz, Prussia, Germany. Mixed paint	327,447	Sept. 29	3003	.....	32	1589
Lucas, Austin H., Allegheny, Pa. Securing diamonds in saw-teeth	324,945	Aug. 25	2105	575	32	9.8
Lucas, Edwin, Kensington, assignor to Peck, Stow & Wilcox Company, Southington, Conn. Manufacture of hinges	331,416	Dec. 1	235	61.62	33	1039
Lucas, Eugene, New York, N. Y. Bolt	327,887	Oct. 6	487	127	33	86
Lucas, Francis M., York, Nebr. Corn-planter	323,942	Aug. 11	725	{ 502 203 }	{ 32 32 }	{ 667 667 }
Lucas, George, New York, N. Y. Type-writing machine	313,827	Mar. 10	1068	{ 275 276 }	{ 30 30 }	{ 924 924 }
Lucas, George C., Cleveland, Ohio. Filling for railway-frogs	315,951	Apr. 14	1356	351	31	251
Lucas, James A., et al. (See McDonald, Gilbert, assignor.)						
Lucas, John, Hastings, Minn. Grain-separator	317,813	May 12	1182	314	31	748
Lucas, John, Hastings, Minn. Wheat, oat, and cockle separator	322,548	July 21	1532	404	32	295
Lucas, John F. (See Gollehon, Britton, and Lucas.)						
Lucas, John M. (See Lucas, Josiah P. and J. M.)						
Lucas, John W. (See Peck, James F., assignor.)						
Lucas, Joseph D. (See Kriz, William J., assignor.)						
Lucas, Josiah. (See Harris and Lucas.)						
Lucas, Josiah P. (See McFaddin and Lucas.)						
Lucas, Josiah P. and J. M., Cadiz, Ohio. Fruit-butter stirrer	316,632	Apr. 28	2264	596	31	429
Lucas, Josiah P. and J. M., Cadiz, Ohio. Device for operating churn-dashers	329,751	Nov. 3	438	111	33	587
Lucas, Noah, Norwich, Conn. Roller for sliding doors	330,339	Nov. 10	1218	326	33	746
Lucas, William, Markdale, Ontario, Canada. Sawing-machine	311,501	Feb. 3	56	17	30	353
Lucas, William, Markdale, Ontario, Canada. Load-lifter	313,087	Mar. 3	61	17	30	789
Luce, Charles E. (See Abbott and Luce.)						
Luce, George W., Albany, N. Y. Clasp for supporting garments	318,919	May 26	2667	707	31	1036
Luce, George W., G. Boole, and B. Bryon, San Francisco, Cal. Package-compressor	315,044	Apr. 7	80	19	31	16
Lucey, James, Troy, N. Y. Roller-skate	328,417	Oct. 13	1193	309	33	226
Luchini, Ferdinando, Natchitoches, La. Marine motive power	324,266	Aug. 11	1178	319	32	749
Ludius, Rudolph W., Mascoutah, Ill. Clock-frame	332,265	Dec. 15	1505	393	33	1281
Lüde, Carl V., Berlin, assignor to Schäffer & Budenberg, Buekau, Germany. Steam-power governor	320,879	June 23	2613	693	31	1551
Ludington, Frank J., Waterbury, assignor to J. G. English, New Haven, Conn. Cigarette-machine	320,370	June 16	1946	{ 512 513 514 515 }	{ 31 31 31 31 }	{ 1415 1415 1415 1415 }
Ludlow, Charles A., Bridgeport, Conn., assignor of one-half to W. Lipe, New York, N. Y. Lock	323,049	July 28	2239	592	32	430
Ludlow, Charles A., assignor of one-half to A. R. Lacey, Bridgeport, Conn. Apparatus for winding strips with worsted or other covering material	329,752	Nov. 3	439	112	33	588
Ludlow, Erastus D., assignor to G. M. Ludlow, Chicago, Ill. Stop mechanism for button-hole sewing-machines	329,753	Nov. 3	441	112	33	588
Ludlow, Erastus D. and G. M., Chicago, Ill. Stop mechanism for button-hole sewing-machines	315,952	Apr. 14	1357	352	31	251
Ludlow, Freeman C., Cincinnati, Ohio, assignor to Ludlow Telephone Company, Newport, Ky. Mechanical telephone	314,946	Mar. 31	2598	688	30	1309
Ludlow, George M. (See Ludlow, Erastus D., assignor.)						
Ludlow, George M. (See Ludlow, Erastus D. and G. M.)						
Ludlow, James M., I. K. Funk, Brooklyn, and A. W. Wagnalls, New York, N. Y. Radial folding synchronous chart	329,178	Oct. 27	2245	581	33	429
Ludwig, Oscar, Evanston, Wyo. Ter. Broom-holder	332,618	Dec. 15	1997	534	33	1367
Ludlow, Rodney F., Springfield, Ohio. Drive-chain	326,307	Sept. 15	1468	382	32	1301
Ludlow Telephone Company. (See Ludlow, Freeman C., assignor.)						
Ludlow, Washington I. (See Taylor and Ludlow.)						
Ludlow, Washington I., Cleveland, Ohio. Lock	315,307	Apr. 7	447	113	31	81
Ludwick, Jay J., Charlotte, Mich. Oil-cup holder	321,618	July 7	286	76	32	55
Ludwig, Frank A., et al. (See Olsen, Adolph, assignor.)						
Ludwig, John C., assignor of three-fourths to L. A. Garnett, San Francisco, and J. Hewston, Jr., Brooklyn, Cal. Induction apparatus for telegraphy	315,425	Apr. 7	611	157	31	109
Ludwig, John C., assignor of three-fourths to L. A. Garnett, San Francisco, and J. Hewston, Jr., Brooklyn, Cal. Rheotrope or current-reversing key	315,426	Apr. 7	614	158	31	110

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Ludwig, John C., assignor of three-fourths to L. A. Garnett, San Francisco, and J. Hewston, Jr., Brooklyn, Cal. Polarized telegraphic relay	315,497	Apr. 7	615	158	31	110
Ludwig, John C., assignor of three-fourths to L. A. Garnett, San Francisco, and J. Hewston, Jr., Brooklyn, Cal. Generation of induced currents for telegraphic and other purposes	315,498	Apr. 7	617	158	31	110
Ludwig, Levi A. (See Winkel, Carl, assignor.)						
Ludwig, Romulus P., Saumville, assignor of one-half to S. M. Lantz, Edenburg, Va. Drill-tooth regulator and compressor for seeders	312,873	Feb. 24	1931	598	30	799
Ludwig, Zacharias, Oakland, Cal. Fire-escape	312,874	Feb. 24	1932	528	30	799
Luebsen, John H., St. Louis, Mo. Burglar-alarm	315,641	Apr. 14	926	243	31	173
Luedemann, Albert, New York, N. Y. Bottle-stopper	329,990	Nov. 10	671	172	33	637
Luehrs, Michel D., Cleveland, Ohio. Bolt-cutter head	324,946	Aug. 25	2106	575	32	938
Lufkin, John H., Springport, Mich. Hour-hand movement for time-pieces	316,708	Apr. 28	2517	657	31	475
Luft, Franz, New Orleans, La. Machine for disintegrating jute, &c.	330,988	Nov. 24	2075	562	33	923
Luft, Franz, New Orleans, La. Roller-crusher for fibrous plants	330,989	Nov. 24	2076	562	33	924
Luger, Anton, Vienna, Austria-Hungary. Stool and seat	329,179	Oct. 27	2246	581	33	430
Lugbill, John E. (See McKim, Fred, assignor.)						
Lugo, Orazio, New York, N. Y. Purifying water-gas	315,953	Apr. 14	1360	352	31	251
Lugrin, Henry A., assignor to himself and P. Nordmann, New York, N. Y. Stop-watch	331,417	Dec. 1	237	69	33	1039
Luhmann, Eduard, Rogasen, Prussia, Germany. Measuring apparatus for liquid carbonic acid	397,448	Sept. 29	3004	785	32	1589
Lukens, Charles M., Springfield, Ohio. Embalming-table	325,550	Sept. 1	451	112	32	1102
Lukens, Charles M., Springfield, Ohio. Head-rest for embalming-tables	325,551	Sept. 1	453	113	32	1102
Lumbert, Daniel, Centerville, Mass. Cranberry-gatherer	331,983	Dec. 8	1093	284	33	1203
Lumbert, Orrin N. (See Earl, Ebeneser J., assignor.)						
Lumis, Thomas J., Hartford, Conn. Letter-scale	331,802	Dec. 8	892	909	33	1152
Lummus, John P., Jackson, Ga. Seed-planter and fertilizer-distributor	314,117	Mar. 17	1359	408	30	1082
Lumsden, Alexander J., Sheboygan Falls, Wis. Reel for measuring and cutting cheese-bands	331,803	Dec. 8	893	910	33	1152
Lumsden, Thomas, Marion, Va. Corner-iron	312,481	Feb. 17	1404	387	30	625
Lund, Hans, et al. (See Burle, John D., assignor.)						
Lund, John A., London, England, assignor to Standard Time Company, New Haven, Conn. Apparatus for synchronizing clocks	312,482	Feb. 17	1405	388	30	625
Lundqvist, Alexius T., New York, N. Y. Show-case for cooling oysters, &c.	319,418	June 2	589	160	31	1160
Lundstedt, O. Emil, New York, N. Y. Toy game	330,990	Nov. 24	2077	563	33	924
Lunge, George, Hottingen, near Zurich, Switzerland. Application of chloride of lime to bleaching purposes	325,684	Sept. 8	690		32	1137
Lunkenheimer, Edmund, Cincinnati, Ohio. Throttle-valve. (Reissue)	10,557	Feb. 3	585	149	30	447
Lunkenheimer, Edmund, Cincinnati, Ohio. Oil-cup	317,464	May 5	728	184	31	654
Lunt, Wilbur F., et al. (See Gibson, Selden F., assignor.)						
Lupher, Hiram, Tullahoma, Tenn. Brick-press	323,348	July 28	2656	706	32	505
Luqueer, Francis T., Jr., et al. (See Wilson, John C., Sr., assignor.)						
Lusby, John, Philadelphia, Pa. Pill-making machine	323,349	July 28	2657	707	32	506
Luscher, Sigmund, Frankfurt, Ky. Ice-machine	329,842	Nov. 3	566	144	33	610
Lushbaugh, William H., Covington, Ky. Tent	318,389	May 19	1947	525	31	899
Lustig, Adolphus J., St. Louis, Mo. Casting compound metal ingots	324,712	Aug. 18	1784	409	32	870
Lutes, William, et al. (See Jones, Edward C., assignor.)						
Luther, Henry C., Providence, R. I. Button-eye	310,898	Jan. 29	945	258	30	190
Luther, James H., Olean, N. Y. Gas regulator or governor	312,483	Feb. 17	1407	388	30	625
Luther, James H., Olean, N. Y. Gas regulator or governor	312,484	Feb. 17	1408	389	30	625
Luther, John F. (See Colby and Luther.)						
Lutman, Samuel M. (See Doty, Charles H., assignor.)						
Lutomeki, Conrad, Pittsburgh, Pa. Pipe system having auxiliary leakage-conduit	321,905	July 7	679	176	32	123
Luttgens, Henry A., Paterson, N. J. Thill-coupling	315,642	Apr. 14	927	243	31	173
Luttgens, Henry A., Paterson, N. J. Locomotive	330,340	Nov. 10	1218	326	33	747
Lutz, Ferdinand F., Louisville, Ky. Horseshoe	319,103	June 2	591	155	31	1086
Lutz, Philip M., North Springfield, Mo. Foot-scraper	327,182	Sept. 29	2667	693	32	1530
Lux, John H., and P. and S. Ede, Earlville, Iowa. Hay-loader	322,536	July 21	1923	509	32	366
Lux, Philip. (See Lux and Ede.)						
Luxem, Jacob, Racine, Wis. Fanning-mill	329,401	Oct. 27	2585	666	33	491
Luxemburg, Moritz, San Francisco, Cal. Folding baby-carriage	323,050	July 28	2941	592	32	430
Luyster, Cornelius W., Newton, N. Y. Attachment for shovels-plows	326,912	Sept. 22	2299	601	32	1457
Luyties, Hermann C. G., et al. (See Eyermann, Christian H., assignor.)						
Lyall, John, Govan, county of Lanark, Scotland. Machine for cutting metal orals	324,331	Aug. 11	1265	343	32	766
Lybrand, Lucius, Noblesville, Ind. Paper box	310,599	Jan. 13	567	157	30	115
Lydon, James P., Marysville, Cal. Heating-drum	322,549	July 21	1534	405	32	295
Lyle, David, Manchester, Jamaica, West Indies. Combined steam and hot-air engine	317,614	May 12	1184	315	31	748
Lyman, Azel S., New York, assignor to L. Middleditch, Brooklyn, N. Y. Cartridge	321,042	June 30	2840	756	31	1598
Lyman, Azel S., New York, assignor to L. Middleditch, Brooklyn, N. Y. Gunners	321,043	June 30	2842	756	31	1598
Lyman, Azel S., New York, assignor to L. Middleditch, Brooklyn, N. Y. Cartridge	321,374	June 30	3361	871	31	1676
Lyman, Charles H., assignor to Ansonia Brass and Copper Company, Ansonia, Conn., and W. A. Hull, New York, N. Y. Suspension device for lamps	318,431	May 19	2011	541	31	909
Lyman, Charles H., assignor to Ansonia Brass and Copper Company, Ansonia, Conn., and W. A. Hull, New York, N. Y. Suspension device	323,051	July 28	2942	592	32	430
Lyman, Charles H., assignor to Ansonia Brass and Copper Company, Ansonia, Conn., and W. A. Hull, New York, N. Y. Suspension device for lamps, &c.	324,332	Aug. 11	1266	344	32	767
Lyman, Fordyce A., Cleveland, Ohio. Vapor-stove	324,947	Aug. 25	2108	576	32	938
Lyman, Frederick W., Richmond, Ind. Cock for siphons	317,465	May 5	729	184	31	655
Lyman, Henry R. (See Hoffman and Lyman.)						
Lyman, Nathan R., assignor of one-half to J. P. Ellacott, Chicago, Ill. Machine for making printers' leads	315,045	Apr. 7	81	20	31	16
Lyman, William, Middlefield, Conn. Sight for fire-arms	327,957	Oct. 6	585	152	33	105
Lyman, William T., assignor to Ansonia Brass and Copper Company, Ansonia, Conn. Galvanic battery	324,475	Aug. 18	1454	397	32	808
Lynch, Bernard. (See Taylor, Thomas W., assignor.)						
Lynch, Charles W. A. (See Agre, Francis M., assignor.)						
Lynch, Edward P., Davenport, Iowa. Wheel-cultivator	329,921	Nov. 10	671	172	33	937

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Lynch, Edwin G., Parish, N. Y. Holdback for vehicles.....	321,375	June 30	3263	871	31	1677
Lynch, Lawrence, Batavia, N. Y. Bridle-bit.....	311,436	Jan. 27	1720	468	30	336
Lynch, Matthew W., Madison, Wis. Lock-buckle.....	318,569	May 26	2208	590	31	953
Lynch, Peter I., Corry, Pa. Steam-boller.....	314,047	Mar. 31	2602	688	29	1310
Lynch, Thomas F., Philadelphia, Pa. Adjustable mirror.....	312,568	Feb. 17	1525	416	29	642
Lynch, Thomas J., Milford, Mass. Harness and shaft connection.....	318,003	May 19	1451	388	31	606
Lynch, Thomas J., Milford, Mass. Laced shoe.....	332,158	Dec. 8	1360	352	33	1248
Lynch, Thomas J., Milford, Mass. Laced shoe.....	332,159	Dec. 8	1360	352	33	1248
Lynd, Ives, Troy, N. Y. Lamp-wick.....	315,429	Apr. 7	619	159	31	110
Lynds, George H., Sterling, Kans. Neck-yoke strap.....	327,058	Oct. 6	586	152	33	106
Lynett, Frederick M., Toronto, Ontario, Canada. Grain-cleaner.....	315,523	Apr. 14	759	201	31	142
Lynn, Abraham. (See Gillogly, Samuel, assignor.)						
Lynn, John G., assignor of one-half to R. Woolley, Jr., Cincinnati, Ohio. Shoe-makers' pinchers.....	315,430	Apr. 7	619	159	31	110
Lynn, John G., assignor of one-half to R. Woolley, Jr., Cincinnati, Ohio. Boot and shoe pattern.....	320,149	June 16	1615	430	31	1357
Lynn, Mirabeau N., Rising Sun, assignor to American Electric Headlight Company, Indianapolis, Ind. Steam-engine.....	313,005	Feb. 24	2094	571	30	759
Lynn, Mirabeau N., Rising Sun, assignor to American Electric Headlight Company, Indianapolis, Ind. Valve-gear for steam-engines.....	332,905	Dec. 8	1415	365	33	1258
Lynn, Mirabeau N., Rising Sun, Ind., assignor to Ohio Power and Light Company, Dayton, Ohio. Electric lamp.....	315,524	Apr. 14	761	202	31	142
Lynn, Mirabeau N., Rising Sun, assignor, by mesne assignments, to American Electric Headlight Company, Indianapolis, Ind. Electric-arc lamp.....	313,006	Feb. 24	2096	572	30	759
Lynn, Mirabeau N., Rising Sun, assignor, by mesne assignments, to American Electric Headlight Company, Indianapolis, Ind. Valve-gear for steam-engines.....	313,007	Feb. 24	2099	573	30	760
Lynn, Mirabeau N., Rising Sun, assignor, by mesne assignments, to American Electric Headlight Company, Indianapolis, Ind. Steam-engine.....	313,008	Feb. 24	2102	574	30	760
Lynn, Mirabeau N., Rising Sun, assignor, by mesne assignments, to American Electric Headlight Company, Indianapolis, Ind. Electric lamp for locomotives.....	313,009	Feb. 24	2105	574	30	760
Lynn, Mirabeau N., and G. N. Wheeler, Akron, Ohio, assignors to American Electric Headlight Company, Indianapolis, Ind. Steam-engine.....	315,643	Apr. 14	928	243	31	173
Lynn, Robert, Sr., Pleasant Plain, Iowa. Washing-machine.....	326,913	Sept. 23	2300	603	32	1457
Lyon, Andrew, Malden, Mass. Sunshade.....	320,568	June 23	2219	587	31	1475
Lyon, Clarence S., Port Chester, N. Y. Necktie-fastening device.....	318,570	May 26	2209	590	31	953
Lyon, Frank G., Jersey City, N. J., assignor to Holmes Electric Protective Company, New York, N. Y. Electric burglar-alarm.....	316,376	Apr. 21	1920	507	31	360
Lyon, Frederick O., Waltham, Mass. Imitation stained glass.....	326,572	Sept. 29	1700	422	32	1368
Lyon, George W., Pennsylvania Furnace, Pa. Ore-washer.....	323,875	Aug. 4	632	178	32	642
Lyon, Isaac L. (See Forbes, John, Jr., assignor.)						
Lyon, Isabella A., Boston, Mass. Cover for pots.....	322,189	July 14	1064	276	32	802
Lyon, James A., Washington, Pa. Gas-detector for mines.....	325,615	Sept. 1	585	132	32	1115
Lyon, James B., et al. (See Okey, Joseph B., assignor.)						
Lyon, Wallace, Bridgeport, Conn. Bicycle.....	329,402	Oct. 27	2526	667	33	491
Lyon, William, Burlington, Iowa. Machine for swaging and jointing saws.....	321,376	June 30	3264	872	31	1677
Lyon, William M., Paola, Kans. Ladder.....	329,922	Nov. 10	674	172	33	639
Lyons, Albert J., Lynn, Mass. Picture-hanger.....	324,779	Aug. 18	1675	515	32	887
Lyons, Albert J., P. Iville, Ky. Combined harrow and sod-cutter.....	328,698	Oct. 20	1824	475	33	348
Lyons, Horace C., Brookfield, Mo. Reel for fence-wire.....	325,616	Sept. 1	526	113	32	1115
Lyons, James B., assignor of two-thirds to F. L. Hirschmann and F. W. Richards, Norway, Mich. Steam-pipe-joint packing.....	332,667	Dec. 15	2106	542	33	1379
Lyons, Joseph, London, England. Stereoscope.....	327,449	Sept. 29	3006	785	32	1590
Lyons, Laban B. (See Mosher and Lyons.)						
Lysett, Martin, Homestead, Pa. Combined cupola-furnace and converter.....	328,042	Oct. 13	685	183	33	133
Lytle, Albert E., assignor of part to R. B. Smith, Chicago, Ill. Underground conduit.....	315,954	Apr. 14	1301	352	31	252
Lytle, Albert E., assignor of two-thirds to J. Dargan and G. E. Taggart, Chicago, Ill. Combination-tool.....	318,920	May 26	2689	707	31	1036
Lytle, Alton A. (See Stellwagen and Lytle.)						
Lytle, Andrew J., Hillsborough, Ohio. Truss.....	316,903	Apr. 28	2674	697	31	506
Lytle, Andrew J., Hillsborough, Ohio. Shears.....	320,940	June 30	2703	717	31	1573
Lytle, Henry B., Boston, Mass., and J. A. McCoy, Baltimore, Md. Support for telephonic transmitters.....	313,828	Mar. 10	1071	276	30	984
Lytle, Henry B., Boston, Mass., and J. A. McCoy, Baltimore, Md. Office-connection for telephone and telegraph central offices.....	313,829	Mar. 10	1072	276	30	984
Lytle, Henry B., Webb's Mills, N. Y., assignor of one-half to W. W. Quackenbush. Combined faucet and vent.....	317,466	May 5	730	184	31	655
Lytle, Henry B., Boston, Mass., and J. A. McCoy, Baltimore, Md. Combined lightning-arrester and test-connection.....	318,571	May 26	2210	591	31	953
Lytle, James P. (See Spe ry, Lyman B., assignor.)						
Maardt, Jürgen G., Copenhagen, Denmark. Covering for steam-boilers, &c.....	321,233	June 30	3087	820	31	1642
Maas, John J., assignor to C. Croissant, Albany, N. Y. Lever-latch.....	320,485	June 23	2115	557	31	1455
Mabery, Charles F. (See Cowles, Mabery, and Cowles.)						
Mabery, Charles F., et al. (See Cowles, Eugene H. and A. H., assignors.)						
MacCarthy, Dennis E., Maplewood, assignor to Wiley & Russell Manufacturing Company, Greenfield, Mass. Anvil.....	314,390	Mar. 24	1828	486	30	1144
MacDonald, Frank Y. (See Lloyd and MacDonald.)						
MacDonald, John, Norwood, Mass. Chimney-cap.....	332,810	Dec. 22	2261	596	33	1422
MacDonald, Thomas A., Boston, Mass. Combined water and air heating apparatus.....	329,923	Nov. 10	675	173	33	638
MacDonnell, John T. F., Holyoke, Mass. Paper-making machine.....	320,372	June 16	1992	516	31	1420
MacFarlane, James, Malden, Mass. Machine for spirally winding a strip of wood.....	323,099	Aug. 4	413	118	32	600
MacIrvine, John L., West New Brighton, N. Y. Bung.....	311,745	Jan. 27	1598	437	30	314
MacKellar, Smiths & Jordan Company. (See Glichwitz, Rudolph, assignor.)						
MacKusick, Elmer F., assignor to J. S. Conover & Co., New York, N. Y. Tile-work adapted to hearths, fire-places, and vestibules.....	321,619	July 7	287	76	32	55
MacLean, Daniel J., assignor of two-thirds to G. E. Haak and J. L. Barrett, Reading, Pa. Fire-escape.....	328,953	Oct. 27	1914	500	33	371
MacQueen & Co. (See Haalam, Mark, assignor.)						
Macanally, Thomas A., New York, N. Y. Mechanical movement.....	326,573	Sept. 22	1791	470	32	1368
Macbeth, George A., Pittsburg, Pa. Glass ornamentation.....	324,133	Aug. 11	962	270	32	713
Macdermott, Martin, and W. Glover, London, England. Rock-drilling machine.....	320,371	June 16	1990	516	31	1420
Macdonald, James, New York, N. Y. Hydrostatic leveling-instrument.....	327,564	Oct. 6	62	18	32	15
Macdonald, William, Boston, Mass. Heading for book-binding.....	313,875	Mar. 17	1148	299	30	1097

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Macedougall, Matthew. (See Müller, Friederich, assignor.)						
Mace, Lambert E. (See Hinds and Mace.)						
Macfarlane, Stewart, Drifton, Pa. Combined gage-cock and indicator	322,837	July 21	1924	509	32	366
Macfarlane, Thomas, Montreal, Quebec, Canada. Making zinc-sulphide pigment	331,249	Nov. 24	2436		33	988
Machan, Thomas, Belle Isle, N. Y. Churn	328,696	Oct. 20	1570	409	33	300
Machlet, George, Elizabeth, assignor to E. P. Reichelm, Jersey City, N. J. Hydrocarbon-burner	325,617	Sept. 1	526	133	32	1115
Machlin, W. E. (See Patton, William P., assignor.)						
Machol, David, New Haven, Conn. Tailor's chalk-cutter	319,282	June 2	419	112	31	1127
Machris, Charles, assignor of three-fourths to I. M. Wellington, Detroit, Mich. Printing-machine	318,383	May 19	1948	526	31	899
Machris, Charles X., and J. F. Haacker, Detroit, Mich. Election-slip	318,769	May 26	2465	661	31	1001
Mack, Albert G., New York, N. Y., assignor to C. B. Poor, East Orange, N. J. Necktie-holder and fastener	327,565	Oct. 6	83	18	33	16
Mack, Courtland L., Perryville, Ind. Car-coupling	321,967	July 14	793	207	32	153
Mack, Jacob A., and C. Hanson, Madison, Wis. Spring hanger	315,644	Apr. 14	929	243	31	173
Mack, Jacob A., and C. Hanson, Madison, Wis. Vehicle-reach	331,310	Dec. 1	72	18	33	1012
Mack, James C., St. Louis, Mo. Pump	313,353	Mar. 3	446	113	30	859
Mack, Josiah D., Salem, and J. G. Newbury, Albany, N. Y. Hat and coat hook	314,591	Mar. 31	2100	560	30	1219
Mack, William B., Boston, Mass. Injector	318,636	May 26	2224	610	31	967
Mackay, Carl A., Boston, Mass. Device for removing cross heads	311,769	Feb. 3	401	109	30	423
Mackay, Murdoch, assignor of one-half to R. E. Gooden, London, England. Plastic compound suitable for molding into various useful articles, such as screw-stoppers for bottles, jars, &c.	310,699	Jan. 20	945		30	190
Mackay, Patrick N., San Francisco, Cal. Manufacture of incandescents	325,257	Sept. 1	31		32	1021
Mackert, John, Springfield, Ohio. Anvil	327,566	Oct. 6	84	19	33	16
Mackey, John S. (See Gilmore, Horace E., assignor.)						
Mackie, Frank A., Ocean Grove, N. J. Seat attachment for vehicles	317,395	May 5	628	160	31	637
Mackie, Simon F. (See Clayton and Mackie.)						
Mackintire, George E. (See Elliott, Charles W., assignor.)						
Mackintosh, Edward D., Brooklyn, assignor to P. Prybil, New York, N. Y. Lathe for turning spirals	312,736	Feb. 24	1742	479	30	696
Mackintosh, Edward D., Brooklyn, assignor to P. Prybil, New York, N. Y. Shaft-coupling	320,439	June 16	2049	537	31	1435
Mackley, Henry, and J. B. Ross, Chicago, Ill. Non-siphoning attachment for closet and other traps	321,620	July 7	584	151	32	107
MacLachlan, John W., Brooklyn, assignor to G. W. Garner, New York, N. Y. Number-ing-machine	326,663	Sept. 22	1919	503	32	1390
Macleod, Malcolm, West Hill, Molmesbury, county of Wilts, England. Riding-saddle	321,830	July 7	585	152	32	107
Macomber, Ellwood G., P. rtsmouth, R. I. Ankle-support for skates	323,700	Aug. 4	415	119	32	600
Macomber, Louis H., assignor to himself and A. M. Ellithorp, Montevideo, Minn. Flying target	326,664	Sept. 22	1921	504	32	1391
Macomber, Sanford W., Troy, assignor to L. O. Eldredge, Brooklyn, N. Y. Lamp-bracket	320,941	June 30	2705	718	31	1573
Macomber, William I., Providence, R. I. Chain bracelet	315,555	Apr. 14	764	202	31	142
Macnider, Quintin, administrator. (See Macnider, William J.)						
Macnider, William J., deceased, Greensborough, Ga.; Q. Macnider, administrator. Adding-machine	322,190	July 14	1064	276	32	202
Macphail, James, assignor to N. C. Thompson Manufacturing Company, Rockford, Ill. Cultivator	330,794	Nov. 17	1817	277	33	867
Macphail, James, assignor to N. C. Thompson Manufacturing Company, Rockford, Ill. Harrow	330,795	Nov. 17	1819	490	33	868
Macquarrie, Donald B., Kansas City, Mo. Aerial conduit for electric wires	315,526	Apr. 14	765	202	31	143
Macrae, James, Glasgow, county of Lanark, Scotland. Apparatus for making granulated crystalline carbonate of soda	316,277	Apr. 21	1791	470	31	338
Macrae, James, Glasgow, Scotland. Soldering-tool	316,278	Apr. 21	1793	471	31	338
Madden, Albert F., New York, N. Y., assignor to himself and O. E. Madden, Boston, Mass. Paper-folding mechanism	324,034	Aug. 11	843	234	32	688
Madden, James. (See Osborn and Madden.)						
Madden, John D., assignor to M. F. Madden, Rochester, Minn. Potato-planter	316,279	Apr. 21	1793	471	31	338
Madden, M. F. (See Bouchet, Michael, assignor.)						
Madden, Martin F. (See Madden, John D., assignor.)						
Madden, Oscar E. (See Madden, Albert F., assignor.)						
Maddock, John, assignor of one-half to F. E. Curtis, Minneapolis, Minn. Bag	326,665	Sept. 22	1922	505	32	1391
Maddock, William H. (See Reed and Maddock.)						
Maddock, William H., Allegheny, and A. Michaels, Pittsburg, Pa. Hoisting apparatus	312,737	Feb. 24	1744	479	30	697
Maddox, M. F. (See Swaim, John M., assignor.)						
Maddox, Martin. (See Kinard and Maddox.)						
Maddox, Milton F., Bloomington, Ind. Collar-fastener	322,482	July 21	1419	371	32	274
Maddox, William J., Scranton, Pa. Adjustable reclining-chair	320,265	June 16	1758	467	31	1384
Madlam, Daniel. (See Tippet, Robert G., assignor.)						
Maesel, Emma L., New York, N. Y. Basket	320,266	June 16	1761	468	31	1384
Mägo, Robert. (See Rusterholz, Rudolf, assignor.)						
Magee, Francis. (See Moser and Magee.)						
Magee, Samuel H., assignor to himself and A. P. R. Hanks, Galveston, Tex. Rope-clamp	319,591	June 9	851	226	31	1214
Magie, E. Eldred. (See Wadhams, Edward A., assignor.)						
Maginnis, Christopher, San Francisco, Cal. Horse hay-fork	317,556	May 12	847	218	31	685
Magner, Thomas J., Wellsville, N. Y. Vehicle-spring	328,238	Oct. 13	948	247	33	180
Magoon, Charles H., assignor of one-half to H. Fairbanks, St. Johnsbury, Vt. Steam-trap	318,271	May 19	1793	480	31	870
Magrath, Michael, New York, N. Y. Window and other glass	319,592	June 9	852	226	31	1214
Magruder, Henry C., Richmond, Va. Car-coupling	315,804	Apr. 14	1147	301	31	915
Magruder, Robert, Liberty Hill, Tex. Gate-latch	312,135	Feb. 10	907	247	30	525
Maguire, John, assignor of three-tenths to A. B. Stevens and J. W. Joslyn, Richmondville, N. Y. Rotating egg-preserver	313,435	Mar. 3	553	144	30	880
Mahaffey, James B., assignor of one-half to H. A. Gable, Baltimore, Md. Planing and matching machine	321,377	June 30	3265	872	31	1677
Mahaffey, James B., assignor of one-half to H. A. Gable, Baltimore, Md. Cutter-head	321,378	June 30	3266	873	31	1678
Mahan, George. (See Steel, James, assignor.)						
Mahan, W. H. (See Dorneck, Vesper, assignor.)						
Maher, Ambrose, and M. Greaney, Chicago, Ill. Machine for wiring blinds	332,241	Dec. 22	2875	751	33	1538
Maher, Thomas F., San Francisco, Cal. House-raising apparatus	332,811	Dec. 22	2909	752	33	1422

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Mahla, Johann F., Pforzheim, Germany. Setting real and artificial stones	332,191	July 14	1068	277	32	203
Mahoney, Daniel H., Olney, Ill. Automatic railway-frog	328,044	Oct. 13	697	184	33	133
Mahoney, John J., <i>et al.</i> (See Martin, William F., assignor.)						
Maiberger, Jerome, Stratford, Conn. Banjo	334,569	Aug. 18	1579	435	32	832
Maier, Martin. (See Hamburger, Ephraim, assignor.)						
Maier, Robert F., Newark, N. J. Condiment	316,799	Apr. 28	2518	.....	31	475
Maier, John, San Francisco, Cal. Boiler-furnace	330,136	Nov. 10	969	252	33	697
Maille, Aimé, Boston, Mass. Compensating pendulum	315,527	Apr. 14	766	203	31	143
Maillet, Ludger L., Montreal, Quebec, Canada. Combined implement for removing snow and ice	314,592	Mar. 31	2101	560	30	1219
Mailloux, C. Odilon, New York, N. Y., assignor to Thomson-Houston Electric Company, Boston, Mass. Electric-arc lamp	313,436	Mar. 3	553	145	30	880
Mailloux, C. Odilon, Brooklyn, N. Y., assignor to Thomson-Houston Electric Company, Boston, Mass. Electric-arc lamp	313,437	Mar. 3	559	145	30	880
Main, Harrison, Eureka, Springs, Ark. Movement-cure apparatus	323,701	Aug. 4	416	119	32	601
Main, John. (See Fyfe and Main.)						
Main, Joshua D., assignor of one-half to S. T. Main, Springfield, Ohio. Extension-table	316,472	Apr. 28	2067	541	31	392
Main, Oscar F., assignor of two-thirds to A. R. Sargent and O. S. Hall, Marion, Iowa. Electric belt	324,713	Aug. 18	1786	493	32	870
Main, Samuel T. (See Main, Joshua D., assignor.)						
Main, William, Brooklyn, N. Y. Electric motor or dynamo-electric machine	332,668	Dec. 15	2067	{ 543 } { 544 }	{ 33 } { 33 }	{ 1379 } { 86 }
Main, William, Brooklyn, N. Y., assignor to River and Rail Electric Light Company, Ohio County, W. Va. Floating current-motor	327,888	Oct. 6	487	{ 127 } { 128 }	{ 33 } { 33 }	{ 86 }
Main, William, Brooklyn, N. Y., assignor to River and Rail Electric Light Company, Ohio County, W. Va. Floating current-motor	327,889	Oct. 6	490	128	33	87
Main, William, Brooklyn, N. Y., assignor to River and Rail Electric Light Company, Ohio County, W. Va. Current-motor for dynamo-electric machines	328,418	Oct. 13	1195	{ 309 } { 310 }	{ 33 } { 33 }	{ 226 }
Main, William, Brooklyn, N. Y., assignor to River and Rail Electric Light Company, Ohio County, W. Va. Floating current-motor	328,496	Oct. 20	1286	{ 334 } { 335 }	{ 33 } { 33 }	{ 250 }
Main, William, Brooklyn, N. Y., assignor to River and Rail Electric Light Company, Ohio County, W. Va. Floating current-motor	328,497	Oct. 20	1288	{ 335 } { 336 }	{ 33 } { 33 }	{ 251 }
Main, William, Brooklyn, N. Y., assignor to River and Rail Electric Light Company, Ohio County, W. Va. Floating current-motor	328,503	Oct. 20	1423	{ 370 } { 371 }	{ 33 } { 33 }	{ 274 }
Main, William F., <i>et al.</i> (See Payson, Joseph R., Jr., assignor.)						
Mains, Randolph S., Boston, Mass. Lamp-burner	323,173	July 28	2400	637	32	460
Mair, Robert, and W. H. Royal, Philadelphia, Pa. Loom for weaving double pile fabrics	324,394	Aug. 18	1349	{ 367 } { 368 }	{ 32 } { 32 }	{ 790 }
Mais, Henry, Boston, Mass. Apparatus for shampooing	325,098	Aug. 25	2307	635	32	975
Maitland, George. (See McCarty, Robert A., assignor.)						
Majert, Wilhelm, assignor of two-thirds to A. Ewer and P. Pick, Grünau, near Berlin, Germany. Manufacture of methylene-blue by electrolysis	323,514	Aug. 4	172	50	32	554
Major, Charles G. (See Stevens and Major.)						
Major, Charles G. (See Stevens, Major, and Barber.)						
Major, Will T., <i>et al.</i> (See Briggs, Alfred, assignor.)						
Makin, John, Glossop, county of Derby, England. Combined lead and iron plate	312,485	Feb. 17	1410	389	30	626
Malam, William, Edge Moor, Del. Steam-boiler	324,134	Aug. 11	983	271	32	713
Malam, William, Edge Moor, Del. Car wheel axle	329,120	Oct. 27	2247	582	33	430
Malaskey, Thomas. (See Schmitt and Dougherty, assignors.)						
Malbouhan, Max, Chicago, Ill. Caisson	328,498	Oct. 20	1290	336	33	251
Malcolm, George, Tavistock, Ontario, Canada. Grain-granulating machine	320,486	June 23	2116	557	31	1455
Malcolmsen, Thomas, assignor of one-half to O. B. Goodwin, Oil City, Pa. Steam governor. (Reissue)	10,559	Feb. 10	1067	293	30	554
Maldner, Charles, Chicago, Ill. Nut lock	332,669	Dec. 15	2074	544	33	1380
Maleville, Adolphe. (See Bleton and Maleville.)						
Maley, Frank M., Cincinnati, Ohio. Device for driving screws	320,373	June 16	1965	517	31	1421
Malin, Jesse S. (See Headington and Malin.)						
Malitor, John. (See Hilger, Peter, assignor.)						
Mallard, William S., <i>et al.</i> (See Thompson, George C., assignor.)						
Mallard, William S., Darien, Ga. Fish-pond trunk	325,552	Sept. 1	454	113	32	1102
Mallasee, Lewis W., and F. B. Nimick, Pittsburgh, Pa. Crane for crucible-furnaces	310,695	Jan. 13	688	189	30	137
Malley, Patrick, <i>et al.</i> (See Facer, Wilson E., assignor.)						
Malley, Thomas, <i>et al.</i> (See Facer, Wilson E., assignor.)						
Malley, Walter E., New Haven, Conn. Permutation lock	330,137	Nov. 10	970	253	33	697
Mallié, Jules, Paris, France. Filter	312,281	Feb. 17	1135	311	30	574
Mallinckrodt Brake Company. (See Mallinckrodt, John F., assignor.)						
Mallinckrodt, John F., Allegheny City, Pa. Car-brake	329,462	Nov. 3	42	12	33	512
Mallinckrodt, John F., Denver, Colo. Car-brake	329,464	Nov. 3	45	12	33	513
Mallinckrodt, John F., Denver, Colo. Car-brake	329,465	Nov. 3	46	13	33	513
Mallinckrodt, John F., St. Louis, Mo. Machine for inserting couplings into hose	331,147	Nov. 24	2286	619	33	961
Mallinckrodt, John F., St. Louis, Mo., assignor to Mallinckrodt Brake Company, East St. Louis, Ill. Street car brake	329,463	Nov. 3	44	12	33	513
Mallo, John, <i>et al.</i> (See Rupertus, Jacob, assignor.)						
Mallon, James. (See Redmond, McFarlane and Mallon.)						
Mallory, Alonzo R., Madison, Ga. Plow-extension	326,759	Sept. 22	2080	541	32	1418
Mallory, Amos, Mystic Bridge, Conn. Float-detecting mechanism for looms	331,897	Dec. 8	966	250	33	1179
Mallory, Lewis A., Sullivan, assignor of one-half to R. H. Baird, Wellington, Ohio. Curtain-fixture	326,287	Sept. 29	2792	726	32	1553
Mallory, Ogden, Auburn, Cal. Trace-buckle	318,572	May 26	2312	591	31	953
Mallory, Ogden, Auburn, Cal. Combined pad-buckle and trace-carrier	320,569	June 23	2220	588	31	1475
Maloney, F. R. (See Du Bois, N. Greenard, assignor.)						
Malmsström, Peter E., Brooklyn, N. Y. Spring-roller for curtains	324,135	Aug. 11	984	271	32	714
Malmsström, Peter E., and P. E. Dwyer, assignors to C. H. Schultz, New York, N. Y. Siphon-head	327,402	Sept. 29	2050	770	32	1580
Malone, A. J. (See Rinderknecht, Charles J., assignor.)						
Malone, Alexander and B. A., Franklin, assignors of three-fourths to J. B. Montague and J. T. Booker, Simpson County, Ky. Churn-dasher	321,831	July 7	586	152	32	108
Malone, Bernard J., Flatlands, N. Y. Corset-clasp	326,230	Sept. 15	1351	449	32	1278
Malone, Bettie A. (See Malone, Alexander and B. A.)						
Malone, Henry H. (See Saltzman, Daniel J., assignor.)						
Maloney, F. R. (See Du Bois, N. Greenard, assignor.)						
Maloney, John W., Indianapolis, Ind. Spark-arrester	314,254	Mar. 24	1643	435	30	1108
Maloney, John W., Indianapolis, Ind. Spark-arrester	331,072	Nov. 24	2168	589	33	942
Malott, Charles A., Perin's Mills, Ohio. Plow-fender	333,141	Dec. 29	2738	719	33	1514
Malott, Frank P., Brownsville, Mo. Churn	329,924	Nov. 10	2076	771	32	1581

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Maloy, James W., Boston, Mass., assignor, by mesne assignments, to American Marble Cutting Company. Stone-polishing machine	327,288	Sept. 29	2792	728	32	1553
Maloy, James W., assignor, by mesne assignments, to American Marble Cutting Company, Boston, Mass. Centering device for stone-cutting machines	329,325	Oct. 27	2465	637	33	470
Maltbie, Paul L., Newark, N. J. Latch	310,000	Jan. 20	946	258	30	190
Maltbie, Paul L., Newark, N. J. Refrigerator	319,986	June 16	1396	367	31	1318
Maltby, Benjamin, Cleveland, Ohio. Wheel-harrow	313,354	Mar. 3	447	113 114	30	859
Maltby, Clinton H., assignor to National Manufacturing Company, Dayton, Ohio. Fare box, indicator, and recorder	311,019	Jan. 20	1120	306	30	221
Maltby, Clinton H., assignor to National Manufacturing Company, Dayton, Ohio. Cash-register	318,485	May 26	2075	580 561	31	931
Maltby, Clinton H., assignor to National Cash Register Company, Dayton, Ohio. Cash register and indicator	321,088	July 14	794	207	32	153
Maltby, Frank D., et al. (See Maltby, Philo, assignor)	313,603	Mar. 10	770	203	30	929
Maltby, Frank D., New York, N. Y. Air pump	313,603	Mar. 10	770	203	30	929
Maltby, Frank D., New York, N. Y., assignor, by mesne assignments, to National Typographic Company, of West Virginia. Machine for making type-matrices	329,466	Nov. 3	48	13 14	33	514
Maltby, Frank D., assignor, by mesne assignments, to National Typographic Company, Washington, D. C. Machine for justifying matrices for producing printing-surfaces	332,352	Dec. 15	1618	425	33	1302
Maltby, Philo, Cleveland, Ohio, assignor of two-thirds to L. G. Hine, Washington, D. C., and F. D. Maltby, New York, N. Y. Reversing-valve	333,419	Dec. 29	3112	812 813 814	33	1580
Maltby, Philo, Cleveland, Ohio, assignor of two-thirds to F. D. Maltby, New York, N. Y., and L. G. Hine, Washington, D. C. Reversing-valve gear	333,473	Dec. 29	3186	831 832	33	1591
Malter, George H., San Francisco, Cal. Feed-water heater and purifier	320,077	June 16	1518	462	31	1341
Man, Albon. (See Sawyer and Man)						
Man, Albon, Brooklyn, N. Y., assignor to River and Rail Electric Light Company, Ohio County, W. Va. Apparatus for utilizing the current force of flowing waters in producing electric currents	313,746	Mar. 10	962	248 249	30	964
Manby, Charles E., McKeesport, assignor to E. C. Converse, Pittsburg, Pa. Alloy for coating metals	328,239	Oct. 13	949		33	180
Manchester, Theodore A., Lynn, Mass. Shoe-nail cutter	314,256	Mar. 24	1644	436	30	1108
Manchester, Thomas L. (See McHugh, Hugh, assignor.)						
Manchester, Thomas L. (See McHugh and Manchester.)						
Mancill, Thomas J. (See Mosley and Mancill.)						
Mander, James, assignor of one-third to M. R. Dillin, Philadelphia, Pa. Chamfer-plane	314,338	Mar. 24	1759	469	30	1130
Mander, James, assignor of one-half to M. R. Dillin, Philadelphia, Pa. Spokeshave and chamfer-cutter	322,304	July 14	1198	314	32	227
Mandeville, Wilbur J., Rochester, N. Y. Lock	331,073	Nov. 24	2170	559	33	942
Mangan, Thomas, and J. T. Wilson, New Orleans, La. Fare-box	328,326	Oct. 13	1053	272 273	33	200
Manger, John, London, England. School-slats	333,085	Dec. 8	1263	328	33	1232
Manger, Julius W. (See Moeller and Manger.)						
Mangus, Charles W. (See Hayner and Mangus.)						
Manhattan Brass Company. (See Hipwell, Thomas, assignor.)						
Manhattan Brass Company. (See White, James H., assignor.)						
Manhattan Brass Company. (See White and Hipwell, assignors.)						
Manhattan Watch Company. (See Kuhn, Edmond, assignor.)						
Mankel, Henry, Jr., McKean, Pa. Shifting-rail for carriages	319,830	June 9	1174	310	31	1271
Mankey, Frederick, Williamsport, Pa. Manufacturing panel and wood trimmings	323,351	Sept. 1	150	43	32	1045
Mankey, Frederick, Williamsport, Pa. Producing open-work panels	332,722	Dec. 22	2158	570	33	1402
Mankey, Frederick, Williamsport, Pa. Cornice	332,723	Dec. 22	2159	570	33	1402
Manley, Charles G., Brockton, Mass. Milk-pail	329,467	Nov. 3	55	15	33	515
Manley, Frederick G., assignor of one-half to W. G. Manley, Syracuse, N. Y. Clothes-drier	328,855	Oct. 20	1766	461	33	337
Manley, Wilmot G. (See Manley, Frederick G., assignor.)						
Manley, William, Rochester, N. Y. Heel and sole edge trimming machine	322,945	July 28	2079	553 554	32	401
Manly & Cooper Manufacturing Company. (See Klose, William, assignor.)						
Mann, Abram, Kansas City, Mo. Hot-air furnace	311,502	Feb. 3	57	17	30	359
Mann, Abram S., et al. (See Spencer, Charles F., assignor.)						
Mann, Charles A., Buffalo, N. Y. Buckle	312,136	Feb. 10	908	247	30	595
Mann, Charles H. T. (See Prescott and Mann.)						
Mann, Elbert B., et al. (See Spencer, Charles F., assignor.)						
Mann, Frederic C. (See Chandler, Clarence A., assignor.)						
Mann, George R., et al. (See Brintnall, Thomas M., assignor.)						
Mann, Henry, Milwaukee, Wis. Machine for wiring pails	314,698	Mar. 31	9237	595	30	1243
Mann, Jonathan, Milton, Mass. Stone-dressing machine	320,942	June 30	2706	718	31	1573
Mann, Thomas W. (See Gill, Napoleon, assignor.)						
Mann, William D., assignor to Mann's Boudoir Car Company, New York, N. Y. Window apparatus for railway-cars	311,020	Jan. 20	1122	306	30	221
Mann, William D., assignor to Mann's Boudoir Car Company, New York, N. Y. Hot-water apparatus for railway-cars	311,021	Jan. 20	1123	306 307	30	221
Mann, William D., assignor to Mann's Boudoir Car Company, New York, N. Y. Panel for use in the construction of cars, boats, &c.	311,022	Jan. 20	1124	307	30	222
Mann, William D., assignor to Mann's Boudoir Car Company, New York, N. Y. Car-ventilator	327,289	Sept. 29	2794	726 727	32	1553
Mann, William T., Benwood, W. Va. Tapers	313,088	Mar. 3	63	17	30	789
Mann's Boudoir Car Company. (See Mann, William D., assignor.)						
Manner, Charles V. (See Steber, Joseph C., assignor.) (Reissue.)						
Manning, Alfred J., et al. (See Brown, Thomas R., assignor.)						
Manning, Charles H., Manchester, N. H. Device for cleaning water-legs of boilers	332,266	Dec. 15	1506	304	33	1261
Manning, Dudley H., Sibley, Iowa. Insect-destroyer	330,033	Nov. 10	826	212	33	667
Manning, Eben J. (See Rudd and Manning.)						
Manning, Edward B., Meriden, Conn. Hot-water urn	319,736	June 9	1034	274	31	1248
Manning, Edwin C., Washington, D. C. Car truck	326,999	Sept. 29	2415	631	32	1487
Manning, Frank, Ardmore, Pa. Stone-dressing machine	332,915	Dec. 22	2411	637 638	33	1450
Manning, Frank, Ardmore, Pa. Machine for dressing stone	332,916	Dec. 22	2412	638	33	1451
Manning, Franklin, Marysville, Cal. Bullet	326,231	Sept. 15	1352	349	32	1278
Manning, Harry G., Newton, Mass. Valve-gear	319,737	June 9	1035	274	31	1248
Manning, John H., Hartwell, Ohio. Safety device for elevators	320,374	June 16	1966	517	31	1421
Manning, John J., Great Barrington, Mass. Apparatus for winding paper webs into rolls	320,375	June 16	1967	517	31	1421
Manning, Thomas. (See Manning, William, assignor.)						
Manning, William, Holyoke, assignor to T. Manning, Boston, Mass. Treating gypsum	326,047	Sept. 8	1093		32	1224
Manny, John P., Rockford, Ill. Harvester	317,815	May 12	1187	316	31	749

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Manny, John P., Rockford, Ill. Mowing-machine	317,816	May 12	1190	318	31	749
Manny, John P., Rockford, Ill. Lemon-juice extractor	325,099	Aug. 25	2308	635	32	975
Mansell Heel Machine Company. (See Cotton, Charles L., assignor.)						
Mansell Heel Machine Company. (See Coy, Frederick W., assignor.)						
Mansfield, Christian, Renditz, Leipsic, Germany. Feed-motion for sewing-machines for boots and shoes	332,812	Dec. 22	2263	597	33	1423
Mansfield, Edward G., et al. (See Forrest, Hamlet E., assignor.)						
Mansfield, Sylvester, Lynn, Mass. Device for heating tires	314,388	Mar. 24	1828	485 486	30	1143
Mansur, Henry W., Boston, Mass. Hopper water-closet	311,342	Jan. 27	1595	430	30	314
Manton, Joseph P., Providence, R. I. Steering mechanism for ferry-boats	317,817	May 19	1193	317	31	750
Manual, Frank, St. Louis, Mo. Spark-arrester	332,724	Dec. 22	2160	570	33	1402
Manuel, David, Hyde Park, and G. H. Burrows, Boston, Mass. Damper	310,606	Jan. 13	689	189	30	137
Manuel, David, assignor to himself, and G. Haigh, Hyde Park, H. C. Somes, Milton, and T. Lonergan, Canton, Mass. Door-hanger	318,125	May 19	1605	429	31	835
Manufacturers Special Machine Company. (See Beardslee, William F., assignor.)						
Manvel, Homer, et al. (See Peck, Perry A., assignor.)						
Manvel, Homer, and M. B. Williams, Kalamazoo, Mich. Windmill	322,463	July 21	1420	371 372	32	274
Manwaring, Morris B., Bayonne, N. J., assignor to New York and Chicago Chemical Company, of New York. Peptone-pepsin	327,567	Oct. 6	85		33	16
Mapes, William R. (See Chase, Sidney A., assignor.)						
Maratta, James S. (See Shaw, George W., assignor.)						
Marbeau, Henry, Ainé, Paris, France. Making malleable ferro-nickel and ferro-cobalt	310,901	Jan. 20	948		30	190
Marbes, Louis W. (See Richards, John J., assignor.)						
Marble, E. M. (See Freeman, James P., assignor.)						
Marble, George W. (See Owsley and Marble.)						
Marble, George W., Chicago, Ill. Bicycle	316,047	Apr. 21	1479	387	31	281
Marble, George W., Chicago, Ill. Bicycle	328,499	Oct. 20	1292	336 337	33	251
March, George N., Watertown, Mass., assignor, by mesne assignments, to Fiberlene Collar Company, Portland, Me. Stud	329,754	Nov. 3	445	112	33	528
March, Jacob M., Washington, D. C. Inside trunk-brace	315,046	Apr. 7	83	20	31	17
March, Perrin G. (See Rogers, Winfield S., assignor.)						
March, William, London, England. Machinery for sweeping and conveying away refuse from streets	328,795	Oct. 20	1690	440	33	323
March, William J., Brooklyn, N. Y., assignor to himself and J. G. Ribon. Dumping-car	312,282	Feb. 17	1136	312	30	575
Marchand, Henry E., Allegheny City, Pa. Table for pumps	327,805	Oct. 6	394	102	33	69
Marchand, Henry E., Allegheny, Pa. Measuring-pump	327,890	Oct. 6	492	128 129	33	88
Marchant, Robert M., London, England. Steam-engine	332,670	Dec. 15	2075	545	33	1380
Marchese, Eugenio, Genoa, Italy. Extracting copper from its ores	326,760	Sept. 22	2022		32	1419
Marcell, Michel, assignor to Hills Company, Amherst, Mass. Mechanism for actuating needle-bars	331,204	Nov. 24	2367	641	33	977
Marcell, Michel, assignor to Hills Company, Amherst, Mass. Feeding mechanism for sewing-machines	331,205	Nov. 24	2368	641	33	977
Marcell, Michel, assignor to Hills Company, Amherst, Mass. Presser-foot lifter for sewing-machines	331,206	Nov. 24	2370	642	33	977
Marcell, Michel, assignor to Hills Company, Amherst, Mass. Gage for straw-braid-sewing machines	331,207	Nov. 24	2370	642	33	977
March, Andrew, Lexington, Mo. Motor	323,943	Aug. 11	726	203	32	667
March, Charles, St. Louis, Mo. Ironing-machine	323,174	July 28	2401	637	32	461
Marcus, Joseph, Chicago, Ill. Windmill	320,570	June 23	2221	588	31	1475
Marcus, Martin H., Baltimore, Md. Filling for bed-quilts or comforts	322,735	July 21	1784	470	32	340
Marcy, Rufus G., Kendallville, Ind. Tubular-well valve	318,770	May 26	2466	661	31	1001
Marcy, Rufus G., Kansas City, Mo. Pipe-reamer	325,948	Sept. 8	966	245	32	1201
Marden, John A., Hinsdale, N. H. Steam-cooker	325,100	Aug. 25	2309	635	32	975
Marden, John W., et al. (See Fuller, Charles A., assignor.)						
Margedant, William C., Hamilton, Ohio, assignor to Economist Plow Company, South Bend, Ind. Machine for finishing plow-beams	322,638	July 21	1926	510	32	366
Margedant, William C., Hamilton, Ohio, assignor to Economist Plow Company, South Bend, Ind. Machine for finishing plow-handles	325,258	Sept. 1	32	10	32	1021
Margot, Francis P., Glenn, Mich. Stump-pulling machine	318,996	June 2	84	22	31	1063
Marichal, Arthur, Philadelphia, Pa. Ellipsograph	324,395	Aug. 18	1353	368	32	790
Marinette Iron Works Company. (See Campbell, William A., assignor.)						
Marinette Iron Works Company. (See Gilchrist, Duncan, assignor.)						
Marinette Iron Works Company et al. (See Prescott, De Witt C., assignor.)						
Marion, Joseph, assignor to himself, J. Calverley, Brooklyn, B. Fischer and J. S. Valk, New York, N. Y. Hydrocarbon-burner	330,599	Nov. 17	1562	418	33	819
Maria, Jared, Philadelphia, Pa., assignor to Acme Hub Company, (limited,) Dayton, Ohio. Vehicle-hub	317,159	May 5	319	79	31	520
Maria, Jared, Columbus, Ohio. Wheel-felly	311,632	July 7	587	152	32	108
Mark, Charles E., Flint, Mich. Elastic joint for the planking of vessels	311,593	Feb. 3	151	52	30	382
Mark, Charles E., Flint, Mich. Hose-coupling	314,699	Mar. 31	2238	595	30	1244
Mark, Charles E., Flint, Mich. Hose-coupling	329,326	Oct. 27	2466	637	33	471
Mark, Charles E., Flint, Mich., assignor to Marks Automatic Car Coupler Company, Cleveland, Ohio. Draw-head attachment	326,761	Sept. 22	2085	541	32	1419
Mark, Clayton, Chicago, Ill. Fastening for trunks and boxes	324,948	Aug. 25	2110	577	32	939
Markell, John H., Havt's Corners, N. Y. Neck-yoke	311,343	Jan. 27	1596	437	30	314
Marker, Frank H., Elkhart, Ind. Trimming and extinguishing attachment for lamp-burners	321,989	July 14	795	208	32	153
Markham, Dewitt C., Towanda, Pa. Pitman for mowing-machines	311,996	Feb. 10	728	199	30	490
Markham, Dewitt C., Towanda, Pa., assignor to Eureka Mower Company, Utica, N. Y. Mowing-machine	325,949	Sept. 8	966	246	32	1201
Markham, Dewitt C., Towanda, Pa., assignor to Eureka Mower Company, Utica, N. Y. Bell-crank for mowing-machines	325,950	Sept. 8	968	246	32	1202
Markham, De Witt C., Towanda, Pa., assignor to Eureka Mower Company, Utica, N. Y. Finger-bar and finger for mowing-machines	332,671	Dec. 15	2079	546	33	1381
Markham, Dewitt C., assignor to Eureka Mower Company, Utica, N. Y. Umbrella-support	332,917	Dec. 22	2414	638	33	1451
Markham, Dewitt C., assignor to Eureka Mower Company, Utica, N. Y. Umbrella-top	332,918	Dec. 22	2414	638	33	1451
Markham, Larnard F., Grand Rapids, Mich. Saw-set	325,101	Aug. 25	2310	636	32	975
Markham, Samuel H., Cleveland, Ohio. Nut-machine	320,571	June 23	2222	588 589	31	1476
Markham, Thomas W., Huntsville, Tex. Lock	321,306	June 30	3173	846	31	1659

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Markinaky, John, Winnipeg, Manitoba, Canada. Envelope or protector for cards.....	399,995	Nov. 10	677	173	33	639
Markle, George B., Jr., Hasleton, Pa. Coffin.....	314,538	Mar. 24	9030	541	30	1179
Marks Automatic Car Coupler Company. (See Copp, Charles H., assignor.)						
Marks Automatic Car Coupler Company. (See Mark, Charles E., assignor.)						
Marks, Francis R., Ashland, Ohio. Slate-dressing machine.....	330,948	Nov. 10	1102	292	33	723
Marks, Henry. (See Williamson, Benjamin F., assignor.)						
Marks, Henry W., et al. (See Allen, William R., assignor.)						
Marks, Jacob O., Urbana, Ill. Grain-drill.....	332,919	Dec. 22	9415	639	33	1451
Marks, Lewis C., et al. (See Allen, William R., assignor.)						
Marks, Philip, et al. (See Allen, William R., assignor.)						
Marks, Phoebe S., 13 I Cornwell Residence, Regents Park, St. Marylebone, county of Middlesex, England. Draftsman's dividing-instrument.....	310,450	Jan. 6	368	102	30	72
Marland, Alfred, assignor of one-half to T. Neely, Pittsburg, Pa. Nut-machine.....	336,762	Sept. 22	2066	541 542	32	1419
Marley, James A., administrator. (See Runstetler, Michael and A.)						
Marlin Fire Arms Company. (See Rice, David H., assignor.)						
Marlin, John M., New Haven, Conn. Magazine for fire-arms.....	315,645	Apr. 14	930	244	31	173
Marlin, John M., New Haven, Conn. Magazine for fire-arms.....	310,554	Apr. 28	2167	570	31	412
Marlin, John M., New Haven, Conn. Ball-bearing for shafts.....	331,698	Dec. 8	967	250	33	1179
Marlin, John M., New Haven, Conn. Ball-bearing.....	331,699	Dec. 8	968	250	33	1179
Marmon, Daniel W., assignor to Noryke & Marmon Company, Indianapolis, Ind. Box-supporter.....	318,384	May 19	1850	526	31	690
Marolle, Michel, Paris, France. Conveyor for excavators, dredgers, &c.....	310,377	Apr. 21	1922	507	31	360
Marqua, Philip, Cincinnati, Ohio, assignor to American Clay Bird Company. Ball-trap.....	313,220	Mar. 3	263	66	30	825
Marquardt, J. George, assignor to Black & Germer, Erie, Pa. Journal-bearing.....	331,311	Dec. 1	73	18	33	1012
Marquart, Frederick, Cleveland, Ohio. Vapor-stove.....	327,568	Oct. 6	86	19	33	16
Marquart, Friedrich, Cleveland, Ohio. Oil-vapor burner.....	322,820	July 21	1633	432	32	313
Marquis, Francis M., Zanesfield, Ohio. Drain and drain-tile.....	320,667	June 23	2356	622	31	1500
Marquis, Francis M., Zanesfield, Ohio. Ditching-machine.....	328,697	Oct. 20	1572	409 410	33	301
Marquiseo, Louis E. (See Parker and Marquiseo.)						
Marr, Nahum C. (See Marr, William C. and N. C.)						
Marr, William C., Onawa, Iowa. Combined flour box and sifter.....	324,859	Aug. 25	1990	547	32	916
Marr, William C. and N. C., Onawa, Iowa. Spiral conveyor.....	323,944	Aug. 11	728	203	32	667
Marriner, Henry W. (See Robinson and Marriner.)						
Marra, William A., et al. (See Smith, John A., assignor.)						
Mars, John H., Albany, N. Y. Lubricating-cup.....	314,593	Mar. 31	2101	560	30	1219
Mars, John H., Albany, N. Y. Packing for stuffing-boxes.....	326,574	Sept. 23	1792	470	32	1369
Mars, John H., Albany, N. Y. Steam-boiler.....	332,267	Dec. 15	1506	394	33	1281
Maraschner, Friedrich, St. Louis, Mo. Guard for wash-boards.....	333,316	Dec. 29	2984	781	33	1558
Marasen, Joseph, Far Rockaway, N. Y. Well-pump tubing.....	317,557	May 12	848	218	31	685
Marsh, Alfred G., assignor to Merrimack Glove Company, Warner, N. H. Mitten.....	319,987	June 16	1399	367	31	1319
Marsh, Andrew T. (See Melhorn, William E., assignor.)						
Marsh, Canfield. (See Horey and Marsh.)						
Marsh, Carrie F., assignor of one-half to A. Pitman, Detroit, Mich. Adjustable clothing-stiffener.....	318,272	May 19	1794	480	31	870
Marsh, Edward A., Newton, Mass. Machine for cutting teeth of duplex wheels.....	323,175	July 28	2402	637 638	32	461
Marsh, Edward A., Newton, Mass. Stem-setting device.....	324,570	Aug. 18	1520	436	32	832
Marsh, Edward A., Newton, Mass. Micrometer-gage.....	329,181	Oct. 27	2248	582 583	33	430
Marsh, Edward A., Newton, Mass. Screw-machine.....	329,182	Oct. 27	2250	583 584	33	431
Marsh, Edward A., Newton, Mass. Machine for roughing-out pinions.....	330,600	Nov. 17	1563	419 420	33	819
Marsh, Edward W. (See Marsh, Egbert and E. W.)						
Marsh, Egbert and E. W., Bridgeport, Conn. Composition of matter to be used as a plaster for building purposes.....	321,630	July 7	287		32	55
Marsh, Egbert and E. W., Bridgeport, Conn. Plastic compound to be used as a stucco.....	321,621	July 7	289		32	55
Marsh, Franklin F., Wareham, Mass. Appliance for the support of invalids.....	319,223	June 2	420	112 113	31	1127
Marsh, George A., Jr. (See Brunck and Marsh.)						
Marsh, George A., Littleton, Mass. Baking-powder.....	328,419	Oct. 13	1199		33	227
Marsh, George D., Joplin, Mo. Bed-screen frame.....	324,437	Sept. 15	1624	425	32	1389
Marsh, Gideon, Mancelona, Mich. Saw-set.....	326,306	Sept. 15	1469	382	32	1301
Marsh, Henry A., et al., executors. (See Knowles, Lucius J.)						
Marsh, James P., Chicago, Ill. Air-valve for steam-radiators.....	317,818	May 12	1194	317	31	750
Marsh, James P., Chicago, Ill. Air-valve or steam-trap.....	319,593	June 9	852	226	31	1214
Marsh, Lewis F. (See Thomas, John, assignor.)						
Marn, Parker C., Troy, N. Y. Feathering paddle-wheel.....	310,451	Jan. 6	369	102	30	72
Marsh, Riverius, New Brunswick, N. J. Apparatus for setting encaustic tiles, &c.....	318,126	May 19	1608	429	31	835
Marsh, Riverius, New Brunswick, N. J. Nozzle and faucet.....	320,881	June 23	2616	693	31	1551
Marsh, Riverius, New Brunswick, N. J., assignor of one-half to Hine & Co., New York, N. Y. Valve and faucet.....	320,880	June 23	2615	693	31	1551
Marsh, Robert, Brooklyn, N. Y. Composite tiling, paving, and flooring slab or building-block.....	313,221	Mar. 3	264	67	30	825
Marsh, Robert J., et al. (See Brooks, George, assignor.)						
Marsh, Robert R., assignor of one-fourth to C. J. Stuart, Owosso, Mich. Car-brake.....	324,714	Aug. 18	1787	493	32	870
Marsh, Samuel G., Battle Creek, Mich. Car-coupling.....	330,601	Nov. 17	1568	421	33	820
Marsh, William W., and M. E. Blood, Sycamore, Ill. Grain binding harvester.....	311,997	Feb. 10	729	199 200 201	30	490
Marsh, William W., and M. E. Blood, Sycamore, Ill. Grain-binding harvester.....	321,511	July 7	134	36 37 38	32	27
Marshall, Albert W., Indianapolis, Ind., assignor to American Press Association, Chicago, Ill. Electrotype-plate and holder.....	312,569	Feb. 17	1526	416	30	648
Marshall, Alfred W., Mortimer Street, Cavendish Square, county of Middlesex, England. Machine for freezing cream, &c.....	320,572	June 23	2224	500	31	1476
Marshall, Alfred W., Mortimer Street, Cavendish Square, county of Middlesex, England. Ice-cave or apparatus for freezing souffles and molding ice-puddings, &c.....	322,117	July 14	972	253	32	126
Marshall, Calvin, Dexter, Iowa. Garden implement.....	311,503	Feb. 3	58	17	30	360
Marshall, Charles H., Wood River, Nebr. Feed-cooker.....	327,806	Oct. 6	395	102	33	69
Marshall, Charles P., Memphis, Tenn. Air-refrigerating apparatus.....	310,212	Jan. 6	68	18	30	15

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Marshall, Daniel O., and C. F. York, Gloucester, Mass. Apparatus for packing fish	325,102	Aug. 25	2310	636	32	975
Marshall, Godfrey, and E. S. Lafferty, Indiana, Pa. Horse-collar fastener	324,136	Aug. 11	965	271	31	714
Marshall, Jackson P., and A. R. Howze, Winona, Miss. Exhibitor for articles of merchandise	327,000	Sept. 29	2416	632	32	1427
Marshall, James F., Rumford, R. I. Boiler for paper-pulp	312,775	Feb. 24	1934	529	31	729
Marshall, John, Brooklyn, N. Y. Faucet for shipping-cans	315,153	Apr. 7	231	56	31	42
Marshall, John, Brooklyn, N. Y. Faucet attachment for shipping-cans	318,637	May 26	2285	610	31	908
Marshall, John E., Saegertown, Pa. Plow	319,492	June 9	721	193	31	1190
Marshall, John W., administrator. (See Sholl, Charles.)						
Marshall, Justice W., Cazenovia, N. Y. Wheelbarrow	314,035	Mar. 17	1362	375	30	1747
Marshall, Justice W., Cazenovia, N. Y. Metallic wheel	315,505	Apr. 14	1148	301	31	15
Marshall, Major B., Vienna, Md. Animal-trap	322,736	July 21	1783	471	32	340
Marshall, Richard, Brooklyn, N. Y. Fan attachment for elevators	316,633	Apr. 28	2266	596	31	450
Marshall, Robert. (See Smith and Marshall.)						
Marshall, Thomas C., assignor to L. Miller, Akron, Ohio. Grain-binding harvester	325,752	Sept. 8	726	182	32	1156
Marshall, Thomas C., assignor to L. Miller, Akron, Ohio. Grain-binding harvester	332,725	Dec. 22	2161	571	33	1402
Marshall, Vanranssler, et al. (See Cook, Thomas G., assignor.)						
Marshallman, Newman R. (See Burridge and Marshallman.)						
Marston, Albert J., Worcester, Mass. Surgeon's chair	327,570	Oct. 6	89	20	33	17
Marston, F. Du Pont, Philadelphia, Pa. Telephone-transmitter	322,327	Oct. 27	2478	638	33	471
Marston, James D., Englewood, and G. Clapp, Oak Park, Ill. Device for transporting human bodies	323,515	Aug. 4	174	51	32	174
Marston, James D., Englewood, and G. Clapp, Oak Park, Ill. Shroud for human bodies	333,142	Dec. 29	2789	719	33	1514
Marston, Thomas P., assignor to W. T. Salter, New York, N. Y. Folding bed	322,698	Oct. 20	1774	410	33	301
Martel, Alfred, Montreal, Quebec, Canada. Bow-guide for violins	316,157	Apr. 21	1040	429	31	311
Martens, John A., Milwaukee, Wis. Envelope-moistener	318,921	May 26	2669	708	31	1737
Marti, Casper, Minneapolis, Minn. Egg-tester	326,763	Sept. 22	2088	542	32	1419
Martignoni, Benjamin. (See Le Roy and Martignoni.)						
Martignoni, Benjamin, Westfield, and C. J. Carney, Dunkirk, N. Y. Self-packing and self-grinding cock	327,001	Sept. 29	2418	632	32	1487
Martin, A. F. (See Ellis, Millard F., assignor.)						
Martin, Abel J., assignor to R. O. De Vêze, Paris, France. Composition for fireproofing and other preservative purposes	331,312	Dec. 1	74		33	1013
Martin, Andrew J., and J. C. Baker, said Martin assignor to Mechanicsburg Machine Company, Mechanicsburg, Ohio. Seeding machine	315,646	Apr. 14	132	541	31	174
Martin, Benjamin D., et al. (See Nutting, Adrain, assignor.)						
Martin, Benjamin G., Cork, Ireland. Cut-off valve	313,089	Mar. 3	64	17 18	30	729
Martin, Bruno, East Saginaw, Mich. Gas-burner	312,367	Feb. 17	1548	344	30	595
Martin, C. S., et al. (See Wilcox, Harlow M., assignor.)						
Martin, Charles, Paris, France. Smoke-consuming attachment for lamp and other chimneys	312,368	Feb. 17	1248	344	30	525
Martin, Charles, Paris, France. Furnace-grate	326,309	Sept. 15	1470	322	32	1301
Martin, Charles F. (See Scheffer and Martin.)						
Martin, David T. (See Summerson, Junius R., assignor.)						
Martin, Edward L. (See O'Connor, Walsh, and Martin.)						
Martin, Edward T., Concordia, Kan. Paper-bag holder	331,512	Dec. 1	362	97	33	1063
Martin, Edwin, et al. (See Mitchell, Frank S., assignor.)						
Martin, Edwin H. (See Chisholm, Walker, and Martin.)						
Martin, Frederick J., et al. (See Ward, Joseph, assignor.)						
Martin, Freeman T. (See Martin, John W., assignor.)						
Martin, Gaylord, Milwaukee, Wis. Brick-machine	327,569	Oct. 6	86	19	33	16
Martin, George, Boston, Mass. Attaching slates to roofs	313,702	Mar. 10	648	103	30	906
Martin, George W., Medford, Mass. Coasting-aid	312,646	Feb. 24	1022	446	30	675
Martin, Godfrey. (See Hofer and Martin.)						
Martin, Harry L., Lancaster, Pa. Combined grain separator and smutter	312,369	Feb. 17	1249	344	30	596
Martin, Henry, Lancaster, Pa. Truck	314,794	Mar. 31	2102	561	30	1219
Martin, Henry, Lancaster, Pa. Brick-machine	320,944	June 30	2708	718	31	1573
Martin, Jacob A. (See Kyte and Martin.)						
Martin, James, Louisville, Ky. Saloon-hopper tube for keeping clean saloon-hoppers in railway-cars, &c.	312,876	Feb. 24	1934	529	30	730
Martin, James L., Decker's Point, Pa. Stump-puller	326,710	Sept. 15	1471	383	32	1301
Martin, James P., St. Paul, Minn. Cow-milking apparatus	331,513	Dec. 1	363	98	33	1063
Martin, Jerome W., et al. (See Harrison, Thomas B., assignor.)						
Martin, John, and P. T. Baker, Danville, Ill. Grain-register	319,594	June 9	854	227	31	1214
Martin, John D., and T. Head, Lowell, Mass. Clothes-drier	316,987	May 5	75	20	31	536
Martin, John F., Allegheny City, Pa. Scale-collector for steam-boilers	321,773	Aug. 4	418	120	32	601
Martin, John M., San Francisco, Cal. Fuse-cutter	318,006	May 19	1452	369	31	806
Martin, John T., Roanoke, Texas. Cotton-picker	323,702	Aug. 4	417	119	32	601
Martin, John W., assignor to himself and F. T. Martin, Winchester, Ky. Bee-hive	318,638	May 26	2286	610	31	908
Martin, Joseph C., Burlington, Vt. Cash and parcel carrier	314,339	Mar. 24	1760	469	30	1120
Martin, Joseph C., Burlington, Vt. Automatic cash-box system	331,418	Dec. 1	258	62	33	1040
Martin, Mary B., New York, N. Y. Staining paper, &c.	321,234	June 30	3087		31	1642
Martin, Mary B., New York, N. Y. Decorating paper and other materials with oil-colors	324,160	Aug. 25	1992		32	916
Martin, Morris, Bitterfeld, Prussia, Germany. Flour-bolting machine	315,308	Apr. 7	449	113	31	82
Martin, Morris, Malden, Mass. Manufacturing thermostats	329,469	Nov. 3	60	16	33	516
Martin, Morris, Malden, Mass. Thermostatic electric controlling device	329,470	Nov. 3	60	16	33	516
Martin, Morris, Malden, and J. C. Wilson, Boston, Mass. Automatic fire-alarm telegraph	329,468	Nov. 3	55	16	33	515
Martin, Orin D. D., Augusta, Ga. Car-coupling	315,647	Apr. 14	933	244	31	174
Martin, Robert H. (See Thompson, Mark S., assignor.)						
Martin, Robert H., Peterborough, N. H. Game counter or indicator	316,473	Apr. 28	2068	541	31	392
Martin, Samuel, assignor to himself and Z. E. Chambers, Hartland, Mich. Washing-machine	329,183	Oct. 27	2255	585	33	431
Martin, Samuel D. (See Bellman, Oscar, assignor.)						
Martin, Taylor, Sturm's Mills, W. Va. Churn	319,831	June 9	1175	310	31	1272
Martin, Thomas F., Lynn, Mass. Protector for book-corners	318,486	May 26	2078	561	31	931
Martin, Thomas F., assignor to himself, J. C. Adams, Newburg, and M. S. Frost & Son, New York, N. Y. Gas-making apparatus	320,078	June 10	1519	402	31	1341
Martin, Thomas J., et al. (See Mitchell, Frank S., assignor.)						
Martin, W. H. (See Wallace, James, assignor.)						
Martin, Walter T., Danvers, Mass. Boot or shoe	316,159	Apr. 21	1641	429	31	311

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Martin, Walter T., Danvers, Mass. Last	331,313	Dec. 1	76	18	33	1013
Martin, Webster W., assignor of one-half to T. O. Potter, Boston, Mass. Beam, joist, &c.	320,079	June 16	1521	403	31	1342
Martin, William F., assignor of three-fourths to J. Scott, J. Albisitti, and J. J. Mahoney, Philadelphia, Pa. Condensing-engine	331,984	Dec. 8	1095	284	33	1203
Martin, William G., Ypsilanti, Mich. Cultivator	313,355	Mar. 3	449	114	30	659
Martin, William L., et al. (See Mitchell, Frank S., assignor.)						
Martindale, Elijah B., Indianapolis, Ind. Index or directory case	324,861	Aug. 25	1993	547	32	916
Martindale, Moses A., Elkhart, Ind. Road or tramway for vehicles	315,047	Apr. 7	84	20	31	17
Martindell, James P. (See Knox, William E., assignor.)						
Martinez, Albert A., New Orleans, La. Lubricating composition	326,311	Sept. 15	1472		32	1301
Martinez, Rafael, New York, N. Y. Window	325,753	Sept. 8	720	182	32	1156
Martinez, Rafael, New York, N. Y., assignor to E. Beadle, Cranford, N. J., and J. F. Courtney, Philadelphia, Pa. Mat or floor-covering	332,921	Dec. 22	2418	630	33	1452
Marty, John M., Clarksville, Ark. Combined injector and ejector	314,595	Mar. 31	2103	561	30	1219
Marty, John M., Cleveland, Ohio. Injector	328,594	Oct. 20	1426	371	33	975
Martyn, Albert E. P., Manchester, N. H. Loom-shuttle	323,317	Dec. 29	2064	761	33	1558
Marvin, George E., et al. (See Rogan, James F., assignor.)						
Marvin, George H., Buffalo, N. Y. Neck-wear fastener	332,922	Dec. 22	2420	640	33	1452
Marvin, George H., Buffalo, N. Y. Neck-wear fastener	332,923	Dec. 22	2420	640	33	1452
Marvin, Henry P., and A. Arnold, Chippewa Falls, Wis. Floating wing-dam	313,747	Mar. 10	965	249	30	965
Marvin, James F., Fort Apache, Ariz. Ter. Dynamite-shell	314,036	Mar. 17	1363	355	30	1047
Marvin, James F., Fort Apache, Ariz. Ter. Drenching-bit	323,183	July 28	2425	642	32	465
Marzari, Giuseppe, New York, N. Y. Game apparatus	331,419	Dec. 1	920	62, 63	33	1040
Marzari, Giuseppe, New York, N. Y. Winding-indicator for time-pieces	331,985	Dec. 8	1096	285	33	1203
Maschke, Samuel. (See Singer, Markus, assignor.)						
Maser, George W., et al. (See Miller, William C., assignor.)						
Maake, Robert W., Chicago, Ill. Double-seaming machine	327,571	Oct. 6	90	20	33	17
Maskell, Frederick. (See Smith, William, assignor.)						
Maasmejan, Charles, Aargau, Tessin, Switzerland. Alarm-watch	311,504	Feb. 3	182	52	30	382
Mason, Allan. (See Grant, James B., assignor.)						
Mason, Allan. (See Grant and Mason.)						
Mason, Benjamin A. (See Hotchkiss and Mason.)						
Mason, Charles A. (See Kenney, Thomas M., assignor.)						
Mason, Charles T., Jr., Sumter, S. C. Cotton-picker stem	311,344	Jan. 27	1596	437	30	314
Mason, Charles T., Jr., Sumter, S. C. Cotton-picker stem	312,647	Feb. 24	1022	446	30	675
Mason, Charles T., Jr., Sumter, S. C. Cotton-picker stem	311,514	Dec. 1	365	98	33	1064
Mason, Charles T., Jr., Sumter, assignor, by mesne assignments, to Mason Cotton Gin Cylinder Company, Charleston, S. C. Cotton-gin	316,280	Apr. 21	1795	472	31	338
Mason, Charles T., Jr., Sumter, assignor to Mason Cotton Gin Cylinder Company, Charleston, S. C. Cotton-gin	316,378	Apr. 21	1923	508	31	361
Mason, Charles T., Jr., Sumter, assignor to Mason Cotton Gin Cylinder Company, Charleston, S. C. Cotton-gin	316,379	Apr. 21	1924	508	31	361
Mason Cotton Gin Cylinder Company. (See Mason, Charles T., Jr., assignor.)						
Mason, Edward, assignor to J. O'Connor, Detroit, Mich. Automatic advertising device	323,176	July 28	2407	639	32	462
Mason, Francis E. (See Kenney and Mason.)						
Mason, Frank E. (See Kenney and Mason.)						
Mason, Frederick, administrator. (See Mason, William.)						
Mason, Frederick, Ryhope Road, near Sunderland, and J. Conqueror, Hendon, Sunderland, assignors to W. E. Chance, Birmingham, England. Machinery for rolling glass	326,764	Sept. 22	2089	542, 543	32	1419
Mason, H. W. (See Brown, Thomas W., assignor.)						
Mason, Henry, assignor of three-fourths to J. H. Hildreth, J. Riordan, and W. E. S. Trowbridge, Chicago, Ill. Fuel-injector for furnaces	321,736	July 7	432	115	32	81
Mason, Howell R. (See Brooks and Mason.)						
Mason, John, Franceville, Ind. Grain-bin	322,305	July 14	1199	315	32	228
Mason, John, and G. W. Winsor, Providence, R. I., assignors to themselves. Frying-pan	310,864	Jan. 13	896	242	30	175
Mason, John L., Davenport, Iowa. Sleigh-runner	323,177	July 28	2407	639	32	462
Mason, John M., Chelsea, Mass. Steam-engine governor	311,770	Feb. 3	402	109	30	424
Mason, Lafayette J., and G. N. Walker, Jr., Peoria, Ill. Grain-door for freight-cars	310,600	Jan. 13	567	157	30	115
Mason, Lyman S. (See Allen and Mason.)						
Mason, Peter G., et al. (See Meyer, Phillip, assignor.)						
Mason Regulator Company. (See Mason, William B., assignor.)						
Mason, Sanders, Homer, Ohio. Traction-engine	327,807	Oct. 6	396	103	33	69
Mason, Thornton & Romanze. (See Romanze, Otto, assignor.)						
Mason, Volney W., Providence, R. I. Elevator	311,504	Feb. 3	59	18	30	360
Mason, William, New Haven, Conn. Drill-chuck	323,178	July 28	2409	639	32	462
Mason, William, New Haven, Conn. Drill-chuck	323,179	July 28	2410	639	32	462
Mason, William, New Haven, Conn. Drill-chuck	323,181	July 28	2421	642	32	465
Mason, William, deceased; F. Mason, Taunton, Mass., administrator. Roving traverse motion of spinning-machines	311,193	Jan. 27	1374	376	30	274
Mason, William, deceased; F. Mason, Taunton, Mass., administrator. Cap-bar support for spinning-machines	312,385	May 19	1951	526	31	899
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	311,079	Jan. 20	1211	332	30	232
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine fire-arm	312,139	Feb. 10	914	248	30	526
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Device for feeding cartridge-shells	317,396	May 5	639	160, 161	31	637
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Machine for counting gun-wads	319,284	June 2	421	113, 114	31	1127
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Machine for trimming cartridge-shells	323,180	July 28	2413	640, 641	32	463
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Machine for polishing cartridge-shells	327,290	Sept. 29	2796	726, 727, 729	32	1554
Mason, William B., assignor to Mason Regulator Company, Boston, Mass. Governor	312,137	Feb. 10	909	248	30	525
Mason, William B., assignor to Mason Regulator Company, Boston, Mass. Governor	312,138	Feb. 10	912	248	30	525
Mason, William H., Everett, assignor to W. H. Johnson, Boston, Mass. Car-brake	320,573	June 23	2224	590	31	1470
Mason, William M., Wauseon, assignor of one-half to E. Ross, Toledo, Ohio. Device for cutting the runners of strawberry-vines	331,804	Dec. 8	826	210	33	1153
Mason, William T., West Acton, Mass. Thill-coupling	318,477	May 26	2079	561	31	931
Massey, Gideon B., Mount Vernon, N. Y. Car-window shade	311,906	Feb. 10	601	165	30	468
Massey, John W., Shuqualak, assignor to himself, M. Edwards, Gholson, Miss., and T. J. Edmonson, Birmingham, Ala. Power-jack	315,309	Apr. 7	452	114	31	82
Massingham, George H., Saybrook, Ohio. Saw-setting device	325,951	Sept. 8	969	246	32	1202

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Masson, Etienne C. A., Lenclos, France. Spinning-mule	317,397	May 5	631	161	31	636
Massou, George, and F. Fernandez, Mazatlan, Mexico. Mortar-bed for stamp-batteries	310,996	Jan. 6	179	49, 50	30	35
Mast & Company, P. P. (See Mast, Startzman, and Clark, assignors.)						
Mast, Phineas P., G. W. Startzman, and D. L. Clark, Springfield, Ohio, assignors to P. P. Mast & Company. Tongueless cultivator	312,738	Feb. 24	1747	{ 480 481 }	30	697
Masten, Cornelius E., Boston, Mass. Fire-cracker	321,833	July 7	568	152	32	108
Masters, Egbert E., and L. J. Kimball, Sacramento, assignors to said Masters and E. R. Brush, Oakland, Cal. Window-head fastener	316,555	Apr. 28	2169	571	31	412
Mastin, Charles I. E., Brooklyn, N. Y. Ventilated garment	315,606	Apr. 14	1148	301	31	216
Matern, William J., Bloomington, Ill. Hub-boxing gage	328,699	Oct. 20	1576	410	33	301
Mather, Alexander C., Montreal, Quebec, Canada. Electrical switch-board	323,183	July 28	2423	642	32	465
Mather, Alonzo C., Chicago, Ill. Glove-fastening	330,501	Nov. 17	1447	387	33	797
Mather, Henry W., Butler, N. J. Stair-pad. (Reissue)	10,550	Jan. 13	901	244	30	176
Mather, John L., Tomah, Wis. Vehicle	313,507	Mar. 10	649	169	30	906
Mather, Richard H., Windsor, Conn. Device for preventing sparking in dynamo-electric machines	321,990	July 14	797	208	32	153
Mather, Richard H., Windsor, Conn. Support for the armatures of dynamo-electric machines	321,991	July 14	799	208	32	154
Mather, Richard H., Windsor, Conn. Multiplex electric arc lamp	323,516	Aug. 4	175	51	33	554
Mather, Richard H., Windsor, Conn. Regulator for dynamo-electric machines and motors	324,662	Aug. 25	1994	548	32	916
Mather, Richard H., Windsor, Conn. Dynamo-electric machine	326,575	Sept. 22	1793	470	32	1369
Mather, William, Salford, county of Lancaster, England. Apparatus for dyeing, &c.	323,219	Aug. 4	560	159	32	629
Mather, William, Manchester, county of Lancaster, England. Apparatus for continuous bleaching	324,137	Aug. 11	986	272	32	714
Matherson, Peter C., Landisville, N. J. Applying gum-balata for insulating wires	326,132	Sept. 15	1214		32	1253
Mathes, Philip, Idlewood, Pa. Lock	317,398	May 5	632	162	31	638
Mathes, William M., Gatesville, Tex. Meat-chopper	313,356	Mar. 3	450	114	30	859
Matheson, William J. (See Kolb, John H., assignor.)						
Mathews, Joseph H., Canton, Ohio. Apparatus for treating ores with superheated steam ..	313,748	Mar. 10	666	{ 249 250 }	30	965
Mathews, Robert R., New York, N. Y. Boot or shoe	330,912	Nov. 24	1976	534	33	904
Mathews, William, Llano, Tex. Hat and towel holder	330,991	Nov. 24	2079	563	33	924
Mathews, William, Llano, Tex. Gate-latch	330,992	Nov. 24	2080	563	33	924
Mathews, William, St. Clair, assignor of one-half to F. A. Hill, Philadelphia, Pa. Steam and air injector for furnaces	326,232	Sept. 15	1353	350	32	1278
Mathewson & Co., J. B. (See Cooke, Charles H., assignor.)						
Mathewson, Jeremiah E., Sheffield, England, assignor to B. C. Tilghman, Philadelphia, Pa. Sand blast process	321,512	July 7	143	38	32	28
Mathewson, Nathan F., Providence, R. I. Button or stud	311,194	Jan. 27	1374	377	30	274
Mathey, Henry, New York, N. Y. Manufacture of lime	330,003	Nov. 17	1570		33	820
Mathey, Henry, assignor to H. G. Bond, New York, N. Y. Revolving furnace	325,250	Sept. 1	34	10, 11	32	1021
Mathey, Henry, assignor to H. G. Bond, New York, N. Y. Manufacture of cement	330,002	Nov. 17	1570		33	820
Mathey, Joseph F., Struther's Station, Ohio. Mining-drill	328,327	Oct. 13	1056	273	33	900
Mathias, David H. (See Van Derzee, Cornelius, assignor.)						
Mathiasen, Peter B., St. Louis, Mo. Brick-machine	331,420	Dec. 1	241	63, 64	33	1040
Mathiasen, Peter B., St. Louis, Mo. Cam	332,268	Dec. 15	1507	394	33	1281
Mathiasen, Carl A., New York, N. Y. Type-wheel for printing-telegraphs	320,376	June 16	1969	518	31	1421
Mathieu, Jean A., Detroit, Mich. Drawing and galvanizing wire	319,918	June 9	1292		31	1999
Mathieu, Jean A., Detroit, Mich. Pipe-coupling for wooden tanks	332,096	Dec. 8	1264	328	33	1232
Mathieu, Jean A., Detroit, Mich. Apparatus for preserving railway-ties	332,097	Dec. 8	1265	328	33	1233
Mathieu, Jean A., Port Leyden, N. Y. Electro-depositing nickel	320,377	June 16	1969		31	1421
Mathioli, Antoine M. L., L'Isle-en-Jourdain, France. Broller	320,668	June 23	2358	623	31	1501
Mathison, Joseph, Lynn, assignor to Standard Button Fastening Company, Boston, Mass. Attaching buttons	326,765	Sept. 22	2091	543	32	1420
Mathison, Joseph, Lynn, assignor to Standard Button Fastening Company, Boston, Mass. Attaching buttons	327,291	Sept. 29	2000	729	32	1555
Mathushek Piano Manufacturing Company. (See Parmelee, Henry S., assignor.)						
Matlick, Isaac N., assignor of one-half to J. N. Prather, San José, Cal. Hay-carrier and track-frame	310,951	Jan. 20	1027	278	30	203
Matlick, Isaac N., assignor of one-half to J. N. Prather, San José, Cal. Hay elevator, conveyor, and stacker	310,952	Jan. 20	1028	279	30	203
Matlock, John N. (See Tompkins and Matlock.)						
Matson, James C. (See Matson, John and J. C.)						
Matson, John and J. C., Brookville, Pa. Churn	316,988	May 5	76	90	31	536
Mattern, Jacob A. (See French and Mattern.)						
Matteson, Don C., Stockton, Cal. Thrasher and separator	322,118	July 14	972	{ 253 254 }	32	186
Matteson, Eugene R., assignor to W. H. Hunter and R. E. Matteson, Joliet, Ill. Barbed wire for fences	330,993	Nov. 24	2081	563	33	924
Matteson, Eugene R., and W. J. Hutchins, assignors to W. H. Hunter and R. E. Matteson, Joliet, Ill. Wire-barbing machine	313,090	Mar. 3	65	18, 19	30	790
Matteson, Jefferson W., Hebron, Pa. Tricycle	323,052	July 28	2243	593	32	430
Matteson, Rose E., et al. (See Matteson, Eugene R., assignor.)						
Matteson, Rose E., et al. (See Matteson and Hutchins, assignors.)						
Matteson, Rufus S., Providence, R. I. Ornamental chain	318,997	June 2	85	22	31	1064
Matthal, John C., et al. (See Fowler, William R., assignor.)						
Matthal, William H., et al. (See Fowler, William R., assignor.)						
Mathews, Crammer L., Temple, Tex. Car-brake	329,328	Oct. 27	2469	638	33	471
Mathews, Elias E., Indianapolis, Ind. Combined crib and chair	325,685	Sept. 8	622	158	32	1137
Mathews, George, executor. (See Mathews, John.)						
Mathews, George, Jr. (See Conner and Mathews.)						
Mathews, George H., Leavenworth, Kans. Reservoir-stove	327,572	Oct. 6	92	90	33	17
Mathews, Henry A., Waterbury, Conn. Foot-bar for stoves	312,877	Feb. 24	1935	529	30	730
Mathews, Henry A., Waterbury, Conn. Metal table	315,310	Apr. 7	453	114	31	82
Mathews, Henry A., and D. M. Ireland, Waterbury, Conn. Hat-stand	312,273	May 19	1795	490	31	871
Mathews, Hugh W., Baltimore, Md. Corn and cane harvesting machine. (Reissue)	10,601	May 26	2693	{ 713 714 }	31	1041
Mathews, John. (See Conner and Mathews, assignors.)						
Mathews, John. (See Hazard, James S., assignor.)						
Mathews, John, deceased; G. Matthews, New York, N. Y., executor. Filling bottles with aerated beverages	311,998	Feb. 10	732	900	30	491
Mathews, Marmaduke, Toronto, Ontario, Canada. Lamp	311,505	Feb. 3	60	18	30	360
Mathews, Marmaduke, Toronto, Ontario, Canada. Lamp	317,160	May 5	313	79	31	580
Mathews, Marmaduke, Toronto, Ontario, Canada. Water-heater	322,946	July 28	2085	554	32	402

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Matthews, Marmaduke, Toronto, Ontario, Canada. Oil-lamp	324,715	Aug. 18	1787	493	32	870
Matthews, William J. (See Warner and Matthews.)						
Matthie, William A. C., Montreal, Quebec, Canada. Piano-stool	316,281	Apr. 21	1798	472	31	339
Matthie, William A. C., Montreal, Quebec, Canada. Piano-stool and like articles	320,487	June 23	2117	558	31	1456
Matthiessen, Conrad H., Odell, Ill. Adjustable bedstead	327,699	Oct. 6	964	67	33	47
Matthiessen, Franz O., Irvington, N. Y. Transforming soft sugar into hard sugar	318,639	May 26	2287		31	968
Matthiessen, Franz O., Irvington, N. Y. Continuous filter for filtering sugar-liquor	329,184	Oct. 27	2265	585	33	439
Matthiessen, Franz O., Irvington, N. Y. Bone-black filter for filtering sugar-liquors	329,185	Oct. 27	2257	585	33	432
Matthiessen, Franz O., Irvington, N. Y. Bone-black filter	329,329	Oct. 27	2471	638	33	472
Matthiessen, Franz O., Irvington, N. Y. Removing the impurities of raw-sugar	329,331	Oct. 27	2476	639	33	472
Matthiessen, Franz O., Irvington, N. Y. Apparatus for decolorizing sugar-liquor by upward filtration through bone-black	329,332	Oct. 27	2478	639	33	473
Matthiessen, Franz O., Irvington, N. Y., and O. H. Krause, Jersey City, N. J. Apparatus for cementing granulated sugar into blocks	318,640	May 26	2288	611	31	968
Matthiessen, Franz O., Irvington, N. Y., and E. E. Quimby, Orange, assignors to F. O. Matthiessen & Wiechers Sugar Refining Company, Jersey City, N. J. Apparatus for decolorizing saccharine and other liquids by filtration through bone-black	329,330	Oct. 27	2473	639	33	473
Matthiessen & Wiechers Sugar Refining Company, F. O. (See Dinkel, George, assignor.)						
Matthiessen & Wiechers Sugar Refining Company, F. O. (See Krause, Otto H., assignor.)						
Matthiessen & Wiechers Sugar Refining Company, F. O. (See Matthiessen and Quimby, assignors.)						
Matthiessen & Wiechers Sugar Refining Company, F. O. (See Quimby, Edward E., assignor.)						
Mattice, Aaron. (See Williams and Mattice.)						
Mattice, Christopher, Delhi, N. Y. Sap-spille	323,704	Aug. 4	418	120	32	601
Mattice, John C. (See Williams and Mattice.)						
Mattison, James D., New York, N. Y. Combined bottle-stopper and faucet	311,060	Jan. 20	1214	332	30	238
Mattoon, Frank F., Boston, Mass. Plane-holder	323,517	Aug. 4	177	51	32	555
Mattoon, Frank F., Boston, Mass. Fare-box register	324,396	Aug. 18	1354	368	39	791
				369		
Matuska, Anton, Chicago, Ill. Window	319,104	June 2	212	55	31	1066
Mátyás, Balló. (See Antal, Kugler, and Mátyás.)						
Mattenbacher, John, New York, N. Y. Umbrella	328,128	Oct. 13	808	211	33	153
Matzinger, John, New York, assignor of one-half to J. H. Mitchell, Brooklyn, N. Y. Rail-way-station indicator	314,037	Mar. 17	1363	355	30	1048
				356		
Matzinger, John, New York, N. Y. Hair-frizzler	323,124	July 28	2426	642	32	465
Maugens, Jacob F., Bellefontaine, Ohio. Sash-fastener	318,998	June 2	85	22	31	1064
Manger, George W. (See Showalter and Manger.)						
Manlick, William F., Columbia, Pa. Incubator	320,378	June 16	1970	518	31	1422
Mauder, Joseph, Little Britain, Ontario, Canada. Harrow	323,705	Aug. 4	420	120	32	601
Maurer, Adam, San Antonio, Tex. Door-check	330,138	Nov. 10	972	253	33	697
Maurer, Henry, New York, N. Y. Fire-proof ceiling	324,716	Aug. 18	1768	493	32	871
Mauring, Broford A., and R. E. Gibbons, assignors of one-third to W. Wigglesworth, Gunnison, Colo. Washing-machine	323,820	Aug. 4	501	160	32	629
Maver, William, Jr., Jersey City, N. J. Telegraphy	326,880	Sept. 22	2252	587	32	1442
Mawhinney, Samuel. (See Gates, Alfred B., assignor.)						
Maxey, Abner B., et al. (See Collins, Stephen, assignor.)						
Maxey, Betsy A., Knoxville, Ill. Car-coupling	316,556	Apr. 28	2169	571	31	412
Maxfield, Charles A., assignor, by means assignment, to J. Wallace, trustee, New York, N. Y. Preserving and waterproofing paper. (Reissue)	10,618	June 30	3320		31	1688
Maxfield, Charles A., assignor to J. Wallace, trustee, New York, N. Y. Preserving, strengthening, waterproofing, and glossing textile fabrics, including paper	328,956	Oct. 27	1920		33	372
Maxfield, Charles A., assignor to J. Wallace, trustee, New York, N. Y. Saturating or coating textile fabrics, paper, &c	328,957	Oct. 27	1921	501	33	372
Maxfield, Charles A., assignor to J. Wallace, trustee, New York, N. Y. Apparatus for treating textile fabrics with waterproofing, &c	328,958	Oct. 27	1923	502	33	372
Maxfield, John, London, England. Machine for perforating music-sheets for mechanical musical instruments	330,913	Nov. 24	1976	534	33	904
Maxfield, Leverett L., assignor to J. Wallace, trustee, New York, N. Y. Coating or lining vessels	332,160	Dec. 8	1361		33	1249
Maxim, Hiram S., London, county of Middlesex, England. Magazine fire-arm	319,595	June 9	855	227	31	1215
Maxim, Hiram S., London, county of Middlesex, England. Machine-gun	319,596	June 9	859	227	31	1215
				228		
Maxim, Hiram S., London, county of Middlesex, England. Support for machine-guns	329,471	Nov. 3	63	17	33	516
Maxim, Hiram S., assignor to A. Vickers and R. R. Symon, London, England. Machine-gun	317,161	May 5	314	79	31	580
Maxim, Hiram S., assignor to A. Vickers and R. R. Symon, London, England. Magazine fire-arm	317,162	May 5	318	80	31	581
Maxim, Hiram S., assignor to A. Vickers and R. R. Symon, London, England. Machine-gun	321,513	July 7	144	39	32	28
Maxim, Hiram S., assignor to A. Vickers and R. R. Symon, London, England. Machine-gun	321,514	July 7	151	40	32	29
Maxon, Daniel M., Bay City, Mich. Circular sawing machine	328,954	Oct. 27	1917	501	33	371
Maxon, Daniel M., assignor to McKinnon Manufacturing Company, Bay City, Mich. Furnace-door	328,955	Oct. 27	1919	501	33	371
Maxon, Thomas, assignor of one-half to J. W. Carpenter, Dayton, Ohio. Lifting-jack	312,878	Feb. 24	1936	530	30	730
Maxon, Thomas, assignor of one-half to J. W. Carpenter, Dayton, Ohio. Lifting-jack	315,807	Apr. 14	1149	301	31	216
Maxson, John F., Genesee, N. Y. Regulating-valve for natural gas	324,571	Aug. 18	1581	436	32	832
Maxson, John F., Hartford, Conn. Mole-trap	326,760	Sept. 22	2092	543	32	1420
Maxson, Stephen W., Dassel, Minn. Time-register for employes	328,045	Oct. 13	699	184	33	133
Maxwell, Albert M., assignor of one-half to L. H. Vedder, Detroit, Mich. Table	313,604	Mar. 10	771	203	30	929
Maxwell, Andrew, Mount Sterling, Ill., assignor of one-half to Pratt & Letchworth, Buffalo, N. Y. Trace-carrier	321,123	June 30	2951	782	31	1616
Maxwell, David, Paris, Ontario, Canada. Slat-attaching device for elevator-belts	321,515	Dec. 1	366	98	33	1064
Maxwell, George S., assignor to Cressey Meter Company, Louisville, Ky. Electric contact-breaker	313,605	Mar. 10	772	203	30	930
	310,213	Jan. 6	69	18	30	15
Maxwell, James A., Allegheny, Pa. Tiller-wheel on steamboats, &c	318,641	May 26	2290	611	31	968
Maxwell, James B., assignor to Gordon & Maxwell Company, Hamilton, Ohio. Valve mechanism for duplex steam-pumps	325,260	Sept. 1	36	11	32	1022
Maxwell, Walter H., Cincinnati, Ohio. Cash register and indicator						
May, Alfred E. (See Nolden and May.)						
May, Benjamin L. (See May, Joseph B., assignor.)						
May, Charles A., and T. Siddall, Trenton, N. J. Pipe-coupling	325,686	Sept. 8	632	153	32	1137

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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May, Charles N. (See Railing and May.)						
May, Ernest, assignor to May Frères & Co., Paris, France. Machine for turning pearl buttons.	312,140	Feb. 10	916	249	30	536
May, Ernest, assignor to May Frères & Co., Paris, France. Machine for the manufacture of pearl buttons.	314,506	Mar. 31	2105	561	30	1230
May, Fred M., Minneapolis, Minn. Lemon-squeezer.	321,044	June 30	2842	756	31	1596
May Frères & Co. (See May, Ernest, assignor.)						
May, Jacob. (See Uibahn, Alwill, assignor.)						
May, John B., Watertown, Wis. Automatic cut-out for electric circuits.	313,091	Mar. 3	69	19	30	790
May, John J. (See Enright and May.)						
May, Joseph B., assignor to B. L. May, Lexington, Ky. Gate.	318,366	May 19	1952	526	31	900
May, Robert, New York, N. Y. Speaking-tube annunciator.	310,601	Jan. 13	568	157	30	115
Mayberry, James W., Marvyn, Ala. Stump-puller.	330,994	Nov. 24	2062	564	33	924
Mayer, Benedict, assignor of one-half to R. Andris, Durhamville, N. Y. Apparatus for conveying sheets of glass through the annealing-oven.	312,141	Feb. 10	917	249	30	536
Mayer, Charles G., Nauvoo, Ill. Refrigerating-machine.	311,506	Feb. 3	1	18	30	360
Mayer, Charles G., Nauvoo, Ill. Brine-cooling apparatus.	314,038	Mar. 17	1365	356	30	1048
Mayer, Charles G., Nauvoo, Ill. Gas-cooling apparatus.	314,039	Mar. 17	1366	356	30	1048
Mayer, Emil R., New York, N. Y. Window-sash.	317,659	May 12	980	233	31	709
Mayer, Ernest. (See Mayer, Joseph, assignor.)						
Mayer, George H., Kansas City, Mo. Saw-jointer.	314,040	Mar. 17	1367	356	30	1046
Mayer, Jacob, New York, N. Y. Underskirt.	327,183	Sept. 29	2667	693	32	1530
Mayer, Jacob J. (See Class, Weatherhead, and Collins, assignors.)						
Mayer, Jacob J., et al. (See Class and Weatherhead, assignors.)						
Mayer, Joseph, Yonkers, N. Y. Corset.	328,120	Oct. 13	809	211	33	153
Mayer, Joseph, Yonkers, N. Y. Corset.	328,130	Oct. 13	810	211	33	153
Mayer, Joseph, Yonkers, N. Y. Corset.	328,131	Oct. 13	811	211	33	154
Mayer, Joseph, assignor of one-half to E. Mayer, Beaver Falls, Pa. Imitation coal.	332,726	Dec. 22	2163		33	1403
Mayer & Loewenstein. (See Mayer and Bungart, assignors.)						
Mayer, Max B., Louisville, Ky. Ice-creeper.	320,945	June 30	2709	719	31	1574
Mayer, Rudolph. (See Holtzmann and Mayer.)						
Mayer, Siegfried W., New York, and P. J. Bungart, Brooklyn, assignors to Mayer & Loewenstein, New York, N. Y. Apparatus for the manufacture of varnish.	318,642	May 26	2294	612	31	969
Mayer, Strouse & Co. (See Gilbert, Thomas S., assignor.)						
Mayer, William T. (See Michaelis, Gustavus, assignor.)						
Mayes, Thomas, Albany, N. Y. Baking-pan and cover.	313,092	Mar. 3	70	19	30	790
Mayfield, I. T., et al. (See Mayfield, William D., assignor.)						
Mayfield, William D., assignor to W. F. and I. T. Mayfield, Fort Worth, Tex. Feeding-chute for stoves.	312,739	Feb. 24	1749	481	30	697
Mayfield, William D., assignor to W. F. and I. T. Mayfield, Fort Worth, Tex. Street-car.	318,274	May 19	1796	480	31	871
Mayfield, William F., et al. (See Mayfield, William D., assignor.)						
Mayher, John, East Hampton, Mass. Valve-motion for steam-pumps.	327,002	Sept. 29	2418	632	32	1467
Maylor, Thomas, Oak Harbor, Wash. Ter. Shaving-mug.	328,940	Oct. 13	950	247	33	181
Maynard, Charles S., Paw Paw, Mich. Car-coupling.	332,353	Dec. 15	1621	425	33	1302
Maynard, William, assignor, by mesne assignments, to W. Maynard and H. Mortimer, Boston, Mass. Sight for fire-arms.	318,999	June 2	87	22	31	1084
Mayo, David C., Montreal, Quebec, Canada. Hydraulic press.	316,048	Apr. 21	1480	367	31	281
Mayo, Uriel K., Boston, Mass. Inhaler.	311,907	Feb. 10	602	165	30	468
Mayo, Uriel K., Boston, Mass., assignor to Boston Vegetable Anæsthetic Company, Portland, Me. Anæsthetic mixture.	320,150	June 16	1617		31	1358
Mayo, Virginia J., assignor to G. H. Noble, Erie, Pa. Sewing-machine shuttle.	331,314	Dec. 1	79	19	33	1013
Mayo, William H., Lynn, Mass. Knitting-machine.	319,000	June 2	87	23	31	1084
Mayor, Lane & Company Brass Works. (See Harder, Victor A., assignor.)						
Mayrhofer, Charles A., assignor of one-half to C. Diener, Vienna, Austria-Hungary. Electric pneumatic clock system.	310,530	Jan. 6	465	{ 127 128 308 309 400 }	{ 30 30 30 30 30 }	{ 90 90 90 90 90 }
Mayrhofer, Charles A., assignor of one-half to C. Diener, Vienna, Austria-Hungary. Electric railway-controlling system.	324,476	Aug. 18	1455		33	606
Maywood, Walter S. (See Mock and Maywood.)						
Mazelin, James E., Baltimore, Ohio. Car-coupling.	320,669	June 23	2360	623	31	1501
Mazergue, George, assignor to Bamboo and Brass Manufacturing Company, New York, N. Y. Folding crib.	329,947	July 26	2066	555	32	402
McAdam, James R., Providence, R. I. Harness-rossette.	317,819	May 12	1185	317	31	750
McAdams, George B. (See Walter, Willie C., assignor.)						
McAdams, John, Brooklyn, N. Y. Marine brake.	330,034	Nov. 10	827	212	33	667
McAfee, James. (See McCarty, Tener, and McAfee.)						
McAfee, John. (See Gessler and McAfee.)						
McAllister, James R., et al. (See Platt, Albert L., assignor.)						
McAllister, William B., et al. (See Platt, Albert L., assignor.)						
McAllister, Elbert W., South Bend, Ind. Piston for syringes.	329,403	Oct. 27	2588	667	33	492
McAllister, Eli, Albion, Iowa. Water-elevator.	311,664	Feb. 3	268	74	30	399
McAllister, Francis W., Baltimore, Md. Eyeglasses.	315,154	Apr. 7	232	56	31	42
McAllister, S. F., et al. (See Bradford, John B., assignor.)						
McAllister, Sanders F., San Marcos, Tex. Car-coupling.	332,544	Dec. 15	1896	495	33	1348
McAllister, Thomas H. (See Brower, Henry J., assignor.)						
McArdle, Frank, Brooklyn, N. Y., assignor of one-half to C. Reissner and C. E. Meier. Bottle-stopper fastener.	319,500	June 9	722	194	31	1190
McArthur, George A., Pullman, Ill. Refrigerator-door.	313,876	Mar. 17	1143	299	30	1007
McArthur, James. (See Cass, McArthur, and Adkins.)						
McArthur, James W., Walton, Kans. Automatic circuit-closer for telegraph-instruments.	331,148	Nov. 24	2287	619	33	962
McArthur, Warren, Chicago, Ill. Flue-stop.	327,573	Oct. 6	93	30	33	17
McAtee, Alfred B., Maysville, Ky. Treadle attachment.	325,103	Aug. 25	2311	636	32	976
McAuley, James W. (See Gardiner and McAuley.)						
McAuliffe, John, assignor of one-half to D. P. Fitzgibbons, Oswego, N. Y. Ash-sifter.	321,307	June 30	3174	846	31	1660
McBeth, Charles E., Hamilton, Ohio. Double throat for punching and shearing machines.	310,692	Jan. 13	569	{ 137 138 139 }	{ 30 30 30 }	{ 115 115 115 }
McBlair, Augusta, Washington, D. C. Ironing-table.	330,721	Nov. 17	1722	464	33	851
McBride, Thomas, F. D. Smith, and J. J. Lennox, assignors to Smith, Sutton & Co., Allegheny, Pa. Crucible-furnace.	323,876	Aug. 4	633	179	32	643
McBride, William. (See Mettler, James I., assignor.)						
McCabe, Charles, Antietam, Md. Steering canal-boats.	320,670	June 23	2361	623	31	1501
McCabe, Thomas, St. Joseph, Mo. Reservoir window-washing brush.	332,545	Dec. 15	1897	{ 495 496 }	{ 33 33 }	{ 1348 1348 }

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McCaffrey, Hugh, assignor of one-half to J. Phipps, Philadelphia, Pa. Card-door retainer.	311,134	Jan. 20	1286	354	30	252
McCaffrey, John, Lawrence, Mass. Mechanism for lubricating the loose pulley of a shaft.	310,150	Apr. 21	1642	429	31	311
McCahan, Davis L., Baltimore, Md. Chimney-top.	323,943	Aug. 11	728	203	32	668
McCahoy, John, assignor to New England Butt Company, Providence, R. I. Machine for covering wire.	330,035	Nov. 10	620	213	33	667
McCahoy, John, assignor to New England Butt Company, Providence, R. I. Spool-carrier for winding-machines.	330,036	Nov. 10	630	213	33	668
McCaleb, John L., Benton, Tex. Adding-machine.	336,767	Sept. 22	2093	543	32	1420
McCall, Abijah. (See Dwyer and McCall.)						
McCall, William T., St. Clair, Ala. Blasting-plug.	318,771	May 26	2467	661	31	1001
McCall, William T., St. Clair, Ala. Blasting timber.	321,308	June 30	3175	847	31	1660
McCallip, William W., Cleveland, Ohio. Overfeed-regulator for rolling-mills.	331,518	Dec. 1	368	99	33	1064
McCalop, James L., Clinton, N. C. Vehicle-axle.	331,055	Dec. 8	827	210	33	1153
McCambridge, Patrick C. F., St. Albans, Vt. Automatic circuit-closer.	330,037	Nov. 10	631	213	33	668
McCance, David, Newark, N. J. Bit for horses.	321,737	July 7	434	115	32	81
McCance, David, Newark, N. J. Tumbling-barrel.	322,621	July 21	1634	432	32	313
McCandless, Edward V., Pittsburg, Pa. Deoxidizing the surface of sheet metal.	312,142	Feb. 10	919	250	30	527
McCandless, John C., and O. King, Randolph, Kans. Cultivator for listed corn.	330,143	Nov. 10	977	254	33	699
McCann, George W., Springfield, Ohio. Iron fence.	315,048	Apr. 14	934	244	31	174
McCann, Horace F. (See Farra, Lorenzo D., assignor.)						
McCann, Marion W., Posey township, Fayette county, Ind. Car-coupling.	310,097	Jan. 13	690	189	30	137
McCarrick, Charles. (See Cole and McCarrick.)						
McCart, Samuel, Lancaster, Pa. Padlock.	323,185	July 26	2427	643	32	465
McCarthy, Lawrence A., Brooklyn, N. Y. Union device for printing-telegraphs.	319,001	July 2	89	23	31	1064
McCarthy, Lawrence A., Brooklyn, N. Y. Duplex telegraph.	321,992	June 14	800	309	32	154
McCarthy, Thomas, St. Vincent de Paul, Quebec, Canada. Calendar.	330,038	Nov. 10	632	213	33	668
McCarthy, Timothy J., et al. (See Rawson, George W., assignor.)						
McCartney, Anstin. (See Ferguson, Sylvester E., assignor.)						
McCarty, Benjamin F., Rolling Prairie, Ind. Shears.	326,768	Sept. 22	2084	544	32	1420
McCarty, Harry C., Williamsport, assignor of one-half to J. F. Bickel, Morton, Pa. Car-truck.	314,459	Mar. 24	1913	511	30	1159
McCarty, Harry C., Williamsport, assignor of one-half to J. F. Bickel, Morton, Pa. Hydraulic, steam, air, and vacuum brake.	330,796	Nov. 17	1890	490	33	268
McCarty, Michael, Newport, R. I. Fastening for tied packages.	332,924	Dec. 22	2421	640	33	1453
McCarty, Michael, Newport, R. I. Fastening for tied packages.	332,925	Dec. 22	2422	640	33	1453
McCarty, Michael G., Grand Rapids, Mich. Car-coupling.	319,002	June 2	90	23	31	1064
McCarty, Norman, assignor to J. B. Tibbitts, Hoosick, N. Y. Electric-arc lamp.	310,837	Jan. 13	862	234	30	169
McCarty, Norman, assignor to J. B. Tibbitts, Hoosick, N. Y. Electric-arc lamp.	325,423	Sept. 1	979	69	32	1068
McCarty, Norman, assignor to J. B. Tibbitts, Hoosick, N. Y. Electric-arc lamp.	325,424	Sept. 1	981	69	32	1069
McCarty, Richard J., Fort Scott, Kans. Velocimeter.	371,517	Dec. 1	370	99	33	1065
McCarty, Robert A., Detroit, Mich. Store-service apparatus.	325,427	Sept. 1	985	70	32	1070
McCarty, Robert A., assignor of one-half to G. Maitland, Detroit, Mich. Cash and parcel carrier.	325,425	Sept. 1	989	69, 70	32	1069
McCarty, Robert A., assignor of one-half to G. Maitland, Detroit, Mich. Cash and parcel carrier.	325,426	Sept. 1	983	70	32	1069
McCarty, Robert A., assignor of one-half to G. Maitland, Detroit, Mich. Store-service apparatus.	325,618	Sept. 1	527	133 } 134 }	32	1116
McCarty, Samuel, Aurora, Ill. Railway rail and joint.	323,940	Aug. 11	729	204	32	668
McCarty, Thomas, G. E. Tener, and J. McAfee, Pittsburg, Pa. Coal and ore shift.	318,488	May 26	2080	561 } 562 }	31	932
McCarty, William B., Russellville, Ky. Stave-jointing machine.	321,515	July 7	153	40	32	30
McCarty, William F. M., assignor to A. Ohl, J. M. Creighton, B. C. Lanth, Philadelphia, Pa., and J. Logan, Hagerstown, Md. Apparatus for the manufacture of gas.	321,194	June 30	2952	782	31	1616
McCarty, William F. M., assignor to A. Ohl, J. M. Creighton, B. C. Lanth, Philadelphia, Pa., and J. Logan, Hagerstown, Md. Making gas.	321,125	June 30	2953	782	31	1617
McCarty, William F. M., assignor of one-half to A. Ohl, J. M. Creighton, and B. Lanth, Philadelphia, Pa. Lightning-protector for electrical circuits.	321,235	June 30	3068	890	31	1643
McCarty, William F. M., assignor to A. Ohl, J. M. Creighton, B. C. Lanth, Philadelphia, Pa., and J. Logan, Hagerstown, Md. Manufacturing gas.	330,142	Nov. 10	976	254	33	698
McCaslin, Albert W., Pittsburg, Pa. Spike-extractor.	317,163	May 5	321	80	31	561
McCauley, Patrick, Braddock, assignor of one-half to T. E. Neville, Pittsburg, Pa. Fire-front.	312,143	Feb. 10	921	250	30	527
McCasland, William J., Philadelphia, Pa. Printing-telegraph.	326,500	Oct. 20	1293	337	33	252
McChesney, Henry J. (See Hixley, Asa L., assignor.)						
McChesney, Reuben, Frankfort, N. Y., assignor of one-half to G. A. Colnon, Chicago, Ill. Meat-cutting machine.	331,900	Dec. 8	969	251	33	1179
McChesney, Wesley W., Green Island, N. Y. Pulley.	311,023	Jan. 20	1124	307	30	222
McClain, Andrew, Nashville, Tenn. Refrigerator and filter.	314,587	Mar. 31	2106	561 } 562 }	30	1220
McClain, Edward L., Greenfield, Ohio. Horse-collar pad.	313,006	Mar. 10	773	203	30	930
McClain, Edward L., Greenfield, Ohio. Sweat-pad for horse-collars.	321,126	June 30	2954	783	31	1617
McClain, Edward L., Greenfield, Ohio. Horse-collar pad.	321,622	July 7	290	76	32	55
McClain, Edward L., Greenfield, Ohio. Harness-saddle.	332,098	Dec. 8	1266	329	33	1233
McClain, Edward L., Greenfield, Ohio. Harness-saddle.	332,099	Dec. 8	1268	329	33	1233
McClain, Edward L., Greenfield, Ohio. Harness-saddle.	332,100	Dec. 8	1270	330	33	1233
McClave, William, Scranton, Pa. Grate.	318,007	May 19	1452	389	31	807
McClave, William, Scranton, Pa. Combined steam and air blower for boiler-furnaces.	318,008	May 19	1453	390	31	807
McClay, William C., Santa Ana, Cal. Pump.	316,049	Apr. 21	1482	387	31	222
McCleary, James Y., Neebo, Mo. Barometer.	328,501	Oct. 20	1296	337	33	253
McClelland, George B. (See Dale, James W., assignor.)						
McClelland, Oscar D., assignor to Solar Gas Light and Heating Company, Philadelphia, Pa. Gas-burner.	313,508	Mar. 10	650	169	30	906
McClelland, Oscar D., assignor of two-thirds to B. C. Burns, Philadelphia, and A. Wasserman, Abington, Pa. Gas-burner.	319,225	June 2	427	114	31	1128
McClelland, Robert E., Williamsport, Ill. Wagon-brake.	313,093	Mar. 3	71	19	30	790
McClelland, Thomas, Mattson, Ill. Cutting and pulverizing harrow.	317,399	May 5	633	162	31	638
McClintock, George W., Boston, Mass. Landing-net.	317,820	May 12	1197	317	31	750
McCloskey, John, New York, N. Y. Apparatus for making plumbers' traps.	327,292	Sept. 29	2800	729	32	1555
McClure, Alexander W., Chicago, Ill. Velocipede.	331,518	Dec. 1	372	100	33	1065
McClure, Charles, Champaign, Ill. Cartridge-pouch.	327,700	Oct. 6	965	67	33	47
McClure, Hay W., Inman, Nebr. Hay and straw burner.	322,737	July 21	1786	471	32	340
McClure, Jesse D., Jeffersonville, Ind. Book-peg.	319,105	June 2	913	56	31	1087
McClure, Jesse D., Jeffersonville, Ind. Book-leaf holder.	324,397	Aug. 18	1356	359	32	791

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McClure, Jesse D., deceased, Jeffersonville, Ind.; S. S. Johnson administrator. Book-rest for chairs	331,149	Nov. 24	2286	630	33	968
McClure, John, Indian Grove, Mo. Chair	316,557	Apr. 23	2170	571	31	412
McClure, William T., Blue Ridge Springs, Va. Cupboard or kitchen cabinet	327,701	Oct. 6	266	67	33	47
McClurg, James, Allegheny, Pa. Machine for packing crackers	320,946	June 30	2710	719	31	1574
McClurg, James, Allegheny, Pa. Machine for arranging crackers for packing	326,769	Sept. 22	2095	544	32	1420
McCoffee, Henry, Bunker Hill, Ill. Hay and straw stacker	314,860	Mar. 31	2475	656	30	1268
McCoid, Moses A. (See Caldwell and Hendricks, assignors.)						
McColgan, Dennis, Butte City, Mont. Ter. Rotary engine	324,863	Aug. 25	1997	548	32	917
McColl, Alexander, et al. (See Skinner, John, assignor.)						
McColloch, Simon L., Wheeling, W. Va. Grain-binding machine	315,578	Apr. 14	767	203	31	143
McCollum, John A. (See Topliff, Cross, Cox, and McCollum.)						
McCombie, William. (See Morgan, Thomas J., assignor.)						
McConnell, Andrew, assignor of one-half to E. W. Swentzel, Pittsburg, Pa. Rock-drill	326,511	Sept. 15	1713	446	32	1346
McConnell, David W., Buffalo, N. Y. Combined street-receiver and stretch-trap	329,404	Oct. 27	2589	668	33	492
McConnell, Hugh. (See Whittingham, Joseph F., assignor.)						
McConnell, John. (See Drodzowski and McConnell.)						
McConnell, John, Cleveland, Ohio. Oil-stove	322,949	July 28	2069	555	32	463
McConnell, John, assignor of one-half to J. R. Drodzowski, Erie, Pa. Printer's quoin	326,438	Sept. 15	1925	425	32	1329
McConnell, Joseph A., Pittsburg, Pa. Cigar-bunching machine	330,604	Nov. 17	1571	421	33	620
McConnon, Thomas J. (See Potter and McConnon.)						
McCool, William A., Perryville, assignor of one-half to P. Oliver, Ashland County, Ohio. Roll for metal rods	319,832	June 9	1176	310	31	1272
McCool, William A., Perryville, assignor of one-half to P. Oliver, Ashland County, Ohio. Sign	319,833	June 9	1177	310	31	1272
McCool, William A., Perryville, assignor of one-half to P. Oliver, Ashland County, Ohio. Sign	328,796	Oct. 20	1691	440	33	394
McCool, William A., Perryville, assignor of one-half to P. Oliver, Ashland County, Ohio. Forming grooved metal rods	328,797	Oct. 20	1692	440	33	394
McCord, Luther A., Clinton, S. C. Rein-holder	315,311	Apr. 7	454	114	31	82
McCord, Myron H. (See Mitchell, Oliver F., assignor.)						
McCord, Sarah J. (See Ewing, Mary R., assignor.)						
McCorkindale, Duncan L., assignor of one-half to S. A. Orr, Troy, N. Y. Rotary lubricator	324,864	Aug. 25	2001	550	32	917
McCormick, Albert, Golden, Colo. Attachment for ore-concentrators	325,104	Aug. 25	2312	637	32	976
McCormick, Charles A., Ripley, Ohio. Machine for making hills for tobacco and other plants	327,004	Sept. 29	2420	633	32	1469
McCormick, Charles W., Emporia, Kans., assignor of one-half to A. Lore. Attachment for plows	321,906	July 7	661	177	32	134
McCormick Harvesting Machine Company. (See Baker, William R., assignor.)						
McCormick Harvesting Machine Company. (See Jenkins, Edward W., assignor.)						
McCormick Harvesting Machine Company. (See Pridmore, Henry E., assignor.)						
McCormick, James, Princeton, Ind. Sash-holder	316,282	Apr. 21	1799	472	31	339
McCormick, James F., Indianapolis, Ind. Shaft-hanger	319,106	June 2	214	56	31	1067
McCormick, John H., New Orleans, La. Car-coupling	316,600	Apr. 22	2718	637	31	476
McCormick, John M., and C. McKinnon, Laurinburg, N. C. Sash-fastener	325,754	Sept. 8	730	162	32	1157
McCormick, John R., assignor of one-half to F. E. Ruffini, Austin, Tex. Locomotive head-light	314,700	Mar. 31	2238	506	30	1344
McCormick, Junius A., Pittsburg, Pa. Pipe-coupling	319,009	May 19	1478	390	31	607
McCormick, Junius A., Pittsburg, Pa. Device for sealing pipe-joints	329,405	Oct. 27	2590	668	33	492
McCormick, Junius A., Pittsburg, Pa. Pipe-coupling. (Reissue)	10,674	Dec. 15	2115	558	33	1368
McCoun, Frederick H. (See Edwards, Oliver H., assignor.)						
McCoy, Daniel H., Smithville, N. J. Ratchet driving mechanism	322,622	July 21	1634	432	32	313
McCoy, Eliah. (See Hodges and McCoy.)						
McCoy, Elijah, Detroit, Mich. Lubricator	320,379	June 16	1971	518	31	1422
McCoy, James S., Brooklyn, N. Y. Pneumatic tool	323,053	July 28	2245	593	32	431
McCoy, James S., Brooklyn, N. Y. Pneumatic tool	326,312	Sept. 15	1473	363	32	1308
McCoy, John A. (See Lyle and McCoy.)						
McCoy, Joseph, Independence, Mo. Car-coupling	312,127	June 30	2955	763	31	1617
McCoy, Juno W., San Francisco, Cal., assignor, by mesne assignments, to Wood Tip Cigarette Company of California. Cigarette-machine	324,035	Aug. 11	245	235	32	698
McCoy, Martha, McCoy, Ind. Eaves-trough	327,605	Sept. 29	2422	633	32	1466
McCoy, Thomas, Lawrence, Kans. Clothes-line fastener	315,312	Apr. 7	454	115	31	82
McCoy, William D., Orange, N. J. Bicycle-saddle	314,701	Mar. 31	2240	596	30	1244
McCracken, Edwin D., Paterson, N. J. Electro-magnet	314,641	Mar. 17	1568	357	30	1049
McCray, Millard F., Glassville, Mo. Cultivator	318,922	May 26	2670	708	31	1037
McCready, John C. (See Vollrath and McCready.)						
McCready, Joseph, New Brighton, Pa. Car-coupling	315,048	Apr. 7	85	20	31	17
McCreary, Edward, et al. (See Smith, David R., assignor.)						
McCreary, John, et al. (See Smith, David R., assignor.)						
McCreary, Crawford. (See Kesselring, Friedrich, assignor.)						
McCreary, J. C. (See Kesselring, Friedrich, assignor.)						
McCreight, Thomas P., Binkley, Ark. Device for holding animals to be shod	316,558	Apr. 28	2171	571	31	412
McCrolden, James, New York, N. Y. Package	328,700	Oct. 20	1577	411	33	301
McCrystal, John F., and J. P. Flegriedt, said Siegfried assignor to P. I. Crossen, Sandusky, Ohio. Pocket-protector	320,822	June 23	2018	693	31	1551
McCrystal, Thomas B. (See Low, Joshua, assignor.)						
McCudden, Thomas, St. Louis, and A. F. Shearlock, Festus, assignors of one-third to D. Foley, St. Louis, Mo. Wheat-sourer	315,155	Apr. 7	223	56	31	42
McCulloch, James M., Garston, county of Lancaster, England. Steam-boiler	317,944	Mar. 17	1262	326	30	1026
McCullough, Lewis H., Richmond, Ind. Central-office apparatus for fire-alarm telegraphs	327,186	Oct. 27	2258	566	33	422
McCullough, Lewis H., Richmond, Ind. Non-interfering fire-alarm telegraph system	329,187	Oct. 27	2260	566	33	433
McCullough, Lewis H., Richmond, Ind. Testing apparatus for fire and police telegraph systems	329,188	Oct. 27	2263	567	33	433
McCullough, Lewis H., Richmond, Ind. Non-interfering fire and police telegraph system	329,189	Oct. 27	2266	567	33	433
McCullough, Lewis H., Richmond, Ind. Circuit-controller	331,986	Dec. 8	1097	285	33	1204
McCullough, Lewis H., assignor to Richmond Fire Alarm Company, Richmond, Ind. Fire-telegraph system	316,474	Apr. 28	2069	542	31	392
McCullough, Lewis H., assignor to Richmond Fire Alarm Company, Richmond, Ind. Non-interfering fire-telegraph system and apparatus	310,475	Apr. 28	2070	542	31	393

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McCullough, Lewis H., assignor to Richmond Fire Alarm Company, Richmond, Ind. Electro-mechanical gong-striker	316,476	Apr. 28	2073	549	31	393
McCullough, Lewis H., assignor to Richmond Fire Alarm Company, Richmond, Ind. Multiple signal-box for fire and police telegraphs	316,477	Apr. 28	2075	543	31	394
McCumber, William H., Trenton, Mo. Swiveled clevis	318,772	May 26	2468	661	31	1001
McCune, Charles A. (See Moore, Oliver M., assignor.)						
McCurley, George J., Detroit, Mich. Car-wheel chill	327,293	Sept. 29	2802	729	32	1555
McCraker, Thomas, St. Louis, Mo. Decorating shells	320,947	June 30	2711	719	31	1574
McCutchen, Charles W., Peekskill, N. Y. Stove-pipe attachment	314,259	Mar. 24	1648	437	30	1109
McDaniel, John S., Wilmington, Del., assignor of one-half to J. Watson, Philadelphia, Pa. Attachment for steam-pipes	311,437	Jan. 27	1720	468	30	336
McDaniel, Rebecca A., Burr Oak, Kans. Preserving compound	329,578	Nov. 3	213		33	545
McDermid, Henry A., and W. Williamson, Cleveland, Ohio. Die for making thill-couplings	327,702	Oct. 6	267	67	33	47
McDermott, Charles J., Sandy Hook, Conn., assignor to New York Belting and Packing Company, New York, N. Y. Recovering rubber from rubber waste	311,135	Jan. 20	1287		30	252
McDermott, James H. (See Ward, John H., assignor.)						
McDermott, Michael, et al. (See Kock, Christian H., assignor.)						
McDermott, Patrick, Memphis, Tenn. Balanced slide-valve	312,144	Feb. 10	922	250	30	527
McDermott, Thomas F. (See Montague, Patrick H., assignor.)						
McDevitt, Bernard, Chicago, Ill. Breast-harness	323,436	Aug. 4	67	17, 18	32	535
McDiarmid, Carrio J. (See McDiarmid, Donald G. and C. J.)						
McDiarmid, Donald G. and C. J., South Bend, Ind. Head-rest	324,386	Aug. 18	1357	380	32	791
McDiarmid, Donald G. and C. J., South Bend, Ind. Head-rest	322,813	Dec. 22	2264	507	33	1433
McDill, Thomas W., Ottumwa, Iowa. Cultivator	314,042	Mar. 17	1368	357	30	1049
McDonald, Alexander, Worcester, Mass. Rattan-scraping machine	310,909	Jan. 20	949	259	30	190
McDonald, Alexander, Cambridge, Mass., assignor to McDonald Stone Cutting Machine Company, Nashua, N. H. Furnace for heating disks	320,948	June 30	2712	710	31	1574
McDonald, Alexander, assignor to J. R. Torrey, Worcester, Mass. Razor-strop	317,821	May 12	1108		31	751
McDonald, Andrew, Glasgow, county of Lanark, Scotland. Baking-powder	310,452	Jan. 6	370	102	30	72
McDonald, Ephraim, Somerville, Mass. Key-fastener	313,045	Mar. 17	1253	327	30	1026
McDonald, Ephraim, Somerville, Mass. Feeding device for sewing-machines						
McDonald, George M. (See McDonald, John, assignor.)						
McDonald, Gilbert, Augusta, Kans., assignor to H. M. Meredith, Silver City, and J. A. Lucas, Georgetown, N. Mex. Ter. Metal-shears	311,999	Feb. 10	723	200	30	491
McDonald, Gilbert, Augusta, Kans., assignor of two-thirds to D. Bunn, Silver City, N. Mex. Ter. Metal-punch	316,160	Apr. 21	1643	430	31	311
McDonald, James L., Steelton, Pa. Charging-carriage for rolling-mill furnaces	323,186	July 28	2428	643	32	466
McDonald, John, Central City, Nebr. Sliding-rest	331,519	Dec. 1	374	100	33	1065
McDonald, John, Middletown, assignor to himself and G. M. McDonald, Harveysburg, Ohio. Door-closer	316,283	Apr. 21	1600	473	31	339
McDonald, John A., Sydney, New South Wales. Bearing-roller for bridges, &c	327,808	Oct. 6	398	104	33	70
McDonald, John S. (See Thomas, Burchard, assignor.)						
McDonald, Lewis B., Little Rock, Ark. Fire-escape	310,603	Jan. 13	570	158	30	116
McDonald Machine Company. (See McDonald, William R., assignor.)						
McDonald, Ronald, and C. Fraser, Port Hawkesbury, Nova Scotia, Canada. Baking-oven	319,003	June 9	91	24	31	1665
McDonald, Samuel J., Gallatin, Mo. Wire-stretcher	323,054	July 28	2246	584	32	431
McDonald Stone Cutting Machine Company. (See McDonald, Alexander, assignor.)						
McDonald, William R., assignor to McDonald Machine Company, Portland, Mo. Friction-clutch	333,143	Dec. 29	2740	719	33	1514
McDonnell, Edward, et al. (See Sherwood, James H., assignor.)						
McDonnell, John. (See Johnson and McDonnell.)						
McDonnell Odometer Company. (See McDonnell, Patrick E., assignor.)						
McDonnell, Patrick E., Chicago, Ill. Draft-equalizer	319,501	June 9	723	194	31	1191
McDonnell, Patrick E., assignor to McDonnell Odometer Company, Chicago, Ill. Exercising apparatus	327,403	Sept. 29	2951	770	32	1580
McDonough, Thomas, Montclair, N. J. Gas-engine	315,806	Apr. 14	1150	302	31	216
McDougall, Alexander, Duluth, Minn. Apparatus for collecting scattered logs	312,466	Feb. 17	1411	389	30	626
McDougall, Isaac S., Irk Vale, Chadderton, near Manchester, county of Lancaster, England. Production of sulphurous acid	311,595	Feb. 3	184	52, 53	30	383
McDougall, Robert, assignor of one-half to W. Sheffer, Auburn, Ind. Whip-socket lock	327,124	Sept. 29	2668	694	32	1530
McDowell, A. Burt, New York, N. Y. Adjustable pattern for drafting dresses	310,297	Jan. 6	180	50, 51	30	35
McDowell, Alvorow, Hudson, Ind. Thill-coupling	325,428	Sept. 1	286	70	32	1070
McDowell, Edward. (See Parker, Washington L., assignor.)						
McDowell, Frederick H., Brooklyn, N. Y. Rock and ore crusher	321,824	July 7	589	153	32	108
McDowell, Frederick H., Brooklyn, N. Y. Ore-crusher	324,132	Oct. 13	811	212	33	154
McDowell, Richard, Lambertville, N. J. Check-valve for steam-boilers	330,380	June 16	1972	510	31	1422
McDowell, Robert W. H. (See Leigh and McDowell.)						
McDowell, William L., Lower Merion, Pa. Stove-door	311,771	Feb. 3	403	110	30	424
McDuff, James E., and J. F. Doherty, assignors of one-third to P. W. Cameron, Providence, R. I. Annunciator	315,313	Apr. 7	455	115	31	83
McEachern, Samuel, Scranton, Pa. Protecting wells	326,439	Sept. 15	1677	425	32	1329
McEachern, James, Wenona, Ill. Coal-chute	324,665	Aug. 25	2003	550	32	918
McElhaney, David M., Buena Vista, Ohio. Combined harrow, clod-crusher, and stalk-cutter	311,842	Feb. 3	490	134	30	442
McElligott, James L., Chicago, Ill. Fire-door casing for furnaces	325,105	Aug. 25	2313	677	32	976
McElroy, Charles E., Brockton, Mass. Ticket-case	320,949	June 30	2713	720	31	1574
McElroy, John H., Pittsburg, Pa. Gas-main	327,703	Oct. 6	268	68	33	47
McEwan, Elizabeth L. (See McEwan, James, assignor.)						
McEwan, James, assignor to E. L. McEwan, Detroit, Mich. Steam-boiler	326,440	Sept. 15	1637	426	32	1330
McEwen, George C., Newark, N. J. Ankle-support	322,727	Dec. 22	2164	571	33	1403
McEwen, George C., Newark, N. J. Ankle-support	322,728	Dec. 22	2165	571	33	1403
McEwen, James, Manchester, England. Apparatus for generating carbon dioxide	317,623	May 12	1200	318	31	751
McEwen, James, Manchester, county of Lancaster, England. Apparatus for filling and strapping aerated beverages	322,738	July 21	1787	471	32	341
McEwen, John, New York, N. Y. Car-truck	317,822	May 12	1129	318	31	751
McFadden, John H., and P. Houser, Williamsport, Pa. Machine for dressing mill-saws	327,294	Sept. 29	2303	730	32	1555
McFadden, Patrick, Philadelphia, Pa. Harness saddle-tree	316,801	Apr. 28	2519	658	31	476
McFaddin, William H., and J. P. Lucas, Cadiz, Ohio. Carpet-fastener	317,824	May 12	1291	318	31	751
McFarlan, Thomas, Cincinnati, Ohio, and H. E. Nottingham, Covington, Ky. Drilling-machine	315,040	Apr. 7	86	21	31	17
McFarland, James, Louisville, Ky. Dumping-wagon	332,414	Dec. 15	1709	448	33	1316
McFarland, James, Richland, Iowa, assignor of one-half to T. C. Long, Iola, Kans. Carriage-jack	310,453	Jan. 6	371	103	30	72
McFarland, John W., Alliance, Ohio. Cut-off-valve gear	310,903	Jan. 20	950	259	30	190

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McFarland, Samuel G., assignor to J. L. Mott Iron Works, New York, N. Y. Sewer-con- nection for water-closets.	310,298	Jan. 6	184	51	30	36
McFarland, Samuel G., assignor to J. L. Mott Iron Works, New York, N. Y. Slop-sink.	322,119	July 14	974	254	32	186
McFarland, Samuel G., assignor to Myers Sanitary Depot, New York, N. Y. Overflow- pipe for bath-tubs.	327,295	Sept. 29	2805	730	32	1555
McFarland, Samuel G., assignor to Myers Sanitary Depot, New York, N. Y. Connection for pipes to closets, &c.	330,502	Nov. 17	1449	387	33	797
McFarlane, George P. (See Redmond, McFarlane, and Mallon.)						
McFeely, Thomas. (See Butler and McFeely.)						
McFeely, Thomas. (See Griscom, McFeely, and Butler.)						
McGahan, Fred L., Indianapolis, Ind. Flue-cleaner.	313,509	Mar. 10	651	169	30	907
McGahan, Fred L., Indianapolis, Ind. Pipe-coupling.	331,806	Dec. 8	827	211	33	1153
McGahan, Fred L., assignor to G. W. Warren, Indianapolis, Ind. Lubricator.	312,214	Feb. 10	1033	283	30	547
McGavock, William J., Memphis, Tenn. Current-wheel.	330,503	Nov. 17	1450	388	33	797
McGee, Charlotte A., assignor to Corset Corset Company, Jackson, Mich. Corset.	323,706	Aug. 4	420	120	32	601
McGee, John H., Eureka, Tenn. Quilting-frame.	326,133	Sept. 15	1215	310	32	1223
McGee, Mark T., Chipley, Ga. Cultivator.	317,400	May 5	635	162	31	638
McGehee, John, Shawneetown, Ill. Car-coupling.	324,138	Aug. 11	987	272	32	714
McGeorge, William, Jr. (See Carter, John F., assignor.)						
McGiehan, Isaac S. (See England, Jamar, assignor.)						
McGill, George W., New York, N. Y. Metallic fastener.	330,995	Nov. 24	2063	564	33	925
McGill, James, assignor to Richmond Manufacturing Company, Lockport, N. Y. Grain- scooner.	333,420	Dec. 29	3115	813	33	1580
McGill, William C., Washington, D. C. Cash-register.	312,740	Feb. 24	1720	481	30	696
McGills, Henry, Darlot, Ga. Rat-trap.	327,704	Oct. 6	268	68	33	47
McGinley, John R. (See Phillips and Ricketts, assignors.)						
McGinnis, Francis A. (See Coquard and McGinnis.)						
McGinnis, John. (See Ratcliff, James E., assignor.)						
McGinnis, William T., New York, N. Y. Electro-magnetic comb.	312,487	Feb. 17	1412	389	30	626
McGinnis, William T., New York, N. Y. Screw-nail.	327,396	Sept. 29	2206	730	32	1566
McGlinchey, Charles E., assignor to H. A. Lozier and C. F. Stokes, Cleveland, Ohio. Ta- ble-leaf support.	318,773	May 26	2469	662	31	1001
McGoldrick, Neal, Brooklyn, N. Y. Check-book.	332,269	Dec. 15	1508	395	33	1282
McGonnell, Charles J., Moorestown, N. J. Heater.	319,286	June 2	428	114	31	1129
McGovern, George, Richmond, Va. Combined key-hole guard and cigar-cutter.	318,275	May 19	1797	481	31	871
McGovern, George, Richmond, Va. Cotton-press.	327,297	Sept. 29	2807	731	32	1556
McGovern, George, Richmond, Va. Cotton-press.	328,798	Oct. 20	1693	441	33	384
McGovern, John, assignor of one-half to P. Jeffrey, Murphysborough, Ill. Caisson or crib.	320,671	June 23	2302	623	31	1501
McGovern, John H., and J. H. Willson, Detroit, Mich. Water-egest ventilator.	323,707	Aug. 4	422	121	32	602
McGovern, Thomas, New York, N. Y. Embossed fabric for decorating walls, &c.	325,687	Sept. 8	623	158	32	1138
McGowan, John H., Cincinnati, Ohio. Oil-press.	315,529	Apr. 14	776	205	31	134
McGroll, Joseph, Saranna, Ill. Piston and valve rod.	311,665	Feb. 3	269	74	30	399
McGrane, John J., et al. (See McGrane, Thomas, assignor.)						
McGrane, Margaret A., et al. (See McGrane, Thomas, assignor.)						
McGrane, Thomas, assignor to J. J. and M. A. McGrane, New York, N. Y. Apparatus for casting horseshoes.	315,314	Apr. 7	456	116	31	83
McGreer, John, Chicago, Ill. Automatic advertising device.	319,597	June 9	861	228	31	1216
McGregor, Charles W., and L. H. Cordry, St. Louis, Mo.; said McGregor assignor to said Cordry. Motor.	313,222	Mar. 3	265	67	30	825
McGregor, Montague M., assignor of two-thirds to A. Morris and J. Anderson, Housley, Tex. Cotton-chopper.	328,595	Oct. 20	1427	371	33	275
McGregor, Thomas W., Rushford, Minn. Barrel-machine.	318,469	May 26	2068	562	31	932
McGregor, William, and T. M. Flenkinn, deceased, assignors to W. Lathrop, Rockford, Ill. Grain-adjusting mechanism for grain-binding harvesters.	323,187	July 28	2430	643	32	406
McGregory, Samuel E., and J. J. Koch, St. Louis, Mo. Hydraulic brick-machine.	332,814	Dec. 22	2965	507 598	33	1423
McGrew, Alonzo H., Hurley, Dak. Ter. Railway-ditching machine.	318,643	May 26	2204	619 613	31	909
McGrew, William H., assignor of two-fifths to J. Myers, Peru, Ind. Snap-hook.	332,415	Dec. 15	1710	448	33	1317
McGrory, Thomas, Philadelphia, Pa. Insulator.	323,055	July 28	2247	504	32	431
McGuire, Elwood W. (See Dille and McGuire.)						
McGuire, James, et al. (See Scott, Jeremiah F., assignor.)						
McGuire, Michael G., Chicago, Ill. Heating attachment for stoves.	318,774	May 26	2470	662	31	1002
McGuire, Patrick W., South Bend, Ind. Tire and felly for wheels. (Reissue.)	10,676	Dec. 29	2213	841	33	1506
McGuire, Thomas J. (See Jenkins, Simeon T., assignor.)						
McGuire, William, assignor to himself and F. Jager, Chicago, Ill. Grain-car door.	331,315	Dec. 1	78	19	33	1013
McGwin, James, Fulton, Mo. Return steam-trap.	311,507	Feb. 3	62	18	30	361
McHale, George W. (See Briody and McHale.)						
McHenry, David A., Younger, Mo. Worm-fence.	332,416	Dec. 15	1711	448	33	1317
McHenry, John, McDonald, Pa. Mail-bag catcher and deliverer.	319,287	June 2	429	115	31	1129
McHenry, John, and J. O'Donnell, Catawissa, Mo. Band-cutter and feeder for thrashing- machines.	317,401	May 5	636	163	31	639
McHugh, Hugh, assignor, by means assignments, to himself and T. L. Manchester, New Bedford, Mass. Manufacturing picture-frame moldings.	332,815	Dec. 22	2268		33	1424
McHugh, Hugh, and T. L. Manchester, New Bedford, Mass. Machine for molding plastic materials.	318,610	May 19	1460	390	31	808
McHugh, Hugh, and T. L. Manchester, New Bedford, Mass. Machine for molding or on- bossing plastic material.	324,399	Aug. 18	1358	369	32	791
McHugh, Timothy, assignor of one-half to Ward & Curley, Boston, Mass. Water-supply apparatus for water-closets.	320,950	June 30	2714	720	31	1574
McIlhenny, George A., Washington, D. C. Boiler-furnace.	328,133	Oct. 13	813	212	33	154
McIlvain & Spiegel. (See Ward, Andrew W., assignor.)						
McIlvaine, Ferree L., Gap, Pa. Rotary engine.	330,504	Nov. 17	1451	328 389	33	798
McIlvried, John, Cleveland, Ohio. Wire-nail machine.	331,987	Dec. 8	1099	285 286	33	1204
McIlvried, John, Cleveland, Ohio. Nail-machine.	331,988	Dec. 8	1101	286	33	1204
McIlwain, William, Philadelphia, Pa. Chenille-cutting machine.	332,319	Dec. 29	2866	722	33	1559
McIndoo, Jacob. (See McIndoo, Joseph and J.)						
McIndoo, Joseph and J., assignors of one-half to A. J. Clark, Lyons, Ind. Harrow.	312,570	Feb. 17	1522	416	30	642
McIntosh, John L., E. H. Bacon, and T. Vail, San Antonio, Tex. Vehicle-brake.	317,164	May 5	322	80	31	579
McIntosh, Peter E., Auburn, N. Y. Tricycle.	329,755	Nov. 3	445	112	33	389

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McIntyre, Elmer E., Pittsburg, assignor, by mesne assignments, to J. Bally, Economy, Pa. Spring bed-bottom	330,949	Nov. 10	1103	299	33	723
McIntyre, James, and H. Loring, Boston, Mass. Escape-hatch for railway-cars	330,039	Nov. 10	533	214	33	668
McIntyre, John T., Chicago, Ill. Two-wheeled vehicle	318,127	May 19	1609	429	31	836
McIntyre, William M., Pittsburg, Pa. Sash-iron holder	326,313	Sept. 15	1474	383	32	1302
McKaig, Eddy T., Chicago, Ill. Drill-chuck	324,139	Aug. 11	969	272	32	714
McKaig, Merwin. (See Muncaster, Walter J., assignor.)						
McKay, Andrew B., Woodstock, Ontario, Canada. Thill-coupling	325,352	Sept. 1	160	43	32	1043
McKay & Copeland Lasting Machine Company. (See Brock, Matthias, assignor.)						
McKay, Isaac M., Pomona, Cal. Pruning-shears	326,314	Sept. 15	1476	384	32	1302
McKay, John, Titusville, Pa. Gas-scrubber	325,134	Oct. 13	814	213	33	154
McKay, Joseph L., Neoga, Ill. Convertible chair	322,950	July 28	2090	556	32	404
McKay & Thompson Consolidated Lasting Machine Association. (See Richardson, Everett P., assignor.)						
McKean, Frank N., Long Branch, N. J. Wagon-jack and step-ladder combined	328,701	Oct. 20	1578	411	33	302
McKee, Alexander. (See Jhncke and McKee.)						
McKee, David, et al. (See Rawson, George W., assignor.)						
McKee, Emmett M., Batavia, Ill. Metallic grinding-plate	316,478	Apr. 28	2077	543	31	394
McKee, George S., et al. (See Randol, Alexander, assignor.)						
McKee, J. R. (See Gearing, Charles M., assignor.)						
McKee, J. R., Jr. (See Gearing, Charles M., assignor.)						
McKee, William J., Avon, Conn. Wire carrier and stretcher	316,161	Apr. 21	1643	430	31	311
McKeen, Thomas L., Easton, Pa. Steam-radiator	316,284	Apr. 21	1800	473	31	339
McKeen, Thomas L., Easton, Pa. Sash-fastening	316,285	Apr. 21	1801	473	31	339
McKeen, Thomas L., Easton, Pa. Sash-fastening	319,288	June 2	430	115	31	1129
McKeen, Thomas L., Easton, Pa. Automatic valve for sewer-pipes	325,553	Sept. 1	455	413	32	1102
McKeen, Thomas L., Easton, Pa. Steam-radiator	325,554	Sept. 1	456	114	32	1103
McKeen, Thomas L., Easton, Pa. Car-coupling	325,847	Sept. 8	846	212	32	1178
McKeen, Thomas L., Easton, Pa. Car-coupling	325,848	Sept. 8	847	212	32	1178
McKeethen, Taylor, New Orleans, La. Lemon-squeezer	330,505	Nov. 17	1454	389	33	798
McKellar, Archibald, Bridgeport, Conn. Monument	320,458	June 23	2118	558	31	1456
McKelvey, Christopher W., Los Angeles, Cal. Harrow	313,357	Mar. 3	451	114	30	860
McKendrick, John, assignor to W. F. Monaghan, New York, N. Y., S. Hartley and C. C. Hodgman, Newark, N. J. Bark-mill	325,740	Sept. 8	848	213	32	1178
McKenna, Charles F. (See Letzkus, John, assignor.)						
McKenna, Hugh, and G. D. Bulmer, Penn. assignors to Booth & Flinn, Pittsburg, Pa. Pipe-joint	319,289	June 2	431	116	31	1129
McKenna, Robert, White, Tenn. Ball-governor	310,838	Jan. 13	864	234	30	169
McKenna, Robert, White, Tenn. Speed-governor	326,881	Sept. 22	2254	587	32	1450
McKenna, William, assignor of one-half to D. E. Park, Pittsburg, Pa. Metallurgical furnace	310,454	Jan. 6	372	103	30	73
McKenna, William S., Pittsburg, Pa. Regenerator-furnace	314,861	Mar. 31	9481	656	30	1289
McKenney, Jacob D., and T. W. Brown, Chattanooga, Tenn. Cartridge-loader	327,185	Sept. 29	2069	604	32	1530
McKenzie, Alexander. (See Senn, John T., assignor.)						
McKenzie, Angus, Toronto, Ontario, Canada, assignor of one-half to S. F. Stevens, Grand Rapids, Mich. Refrigerator	332,417	Dec. 15	1712	448	33	1317
McKenzie, Hugh. (See Seymour, Oliver E., assignor.)						
McKenzie, James A., Galesburg, Ill. Road-scraper	311,195	Jan. 27	1375	377	30	274
McKenzie, John, West Troy, N. Y. Barrel-filler	323,708	Aug. 4	864	121	32	602
McKenzie, John, Dekorra, and J. Fyfe, Portage, Wis. Iron post	317,558	May 19	849	219	31	886
McKenzie, Winfield S., Kemp, Tex. Combination-wrench	331,520	Dec. 1	375	101	33	1085
McKenzie, William E., Zionsville, Ind. Blackboard	323,350	July 28	2661	708	32	506
McKham, Charles F. (See Hecker and McKham.)						
McKibben, Frank S., Tacoma, Wash. Ter. Wind-motor	327,186	Sept. 29	2671	604	32	1531
McKillen, Benjamin, Verona, Mich. Machine for shaping chain-hooks	319,290	June 2	432	116	31	1129
McKim, Daniel, et al. (See Roach, Michael J., assignor.)						
McKim, David F., Cable City, Mont. Ter. Ore-separator	325,429	Sept. 1	287	71	32	1070
McKim, George W., Martin's Ferry, Ohio. Nail-plate feeder	313,010	Feb. 24	2110	575	30	762
McKim, George W., Martin's Ferry, Ohio. Nail-plate-feeding machine	394,572	Aug. 18	1582	436	33	832
McKimmy, Fred, assignor of one-half to J. E. Lugbill, Beaver Dam, Ohio. Washing-machine	310,686	Jan. 13	691	189	30	137
McKinlay, Edward S. and W. A., South Pueblo, Colo. Hoisting-machine	311,251	Jan. 27	1455	397	30	298
McKinlay, William A. (See McKinlay, Edward S. and W. A.)						
McKinley, William H., assignor of two-thirds to C. H. Songer and J. A. Kurts, Shannon-dale, Pa. Automatic switch	318,011	May 19	1461	390	31	808
McKinley, William V. (See Jacobus and McKinley.)						
McKinney, David P., et al. (See Waters, Frank M., assignor.)						
McKinney, George H., Stanford, Ky. Fish trap and bucket	311,346	Jan. 27	1599	437	30	314
McKinney, Isaac R., East Portland, Oreg. Apparatus for separating fine gold from sand, &c.	321,623	July 7	291	76	32	56
McKinney, Robert M., Elizabeth, Pa. Automatic air-brake	311,196	Jan. 27	1378	377	30	274
McKinney, Thomas E., et al. (See Waters, Frank M., assignor.)						
McKinney, Truman D., assignor of one-half to J. J. Freeman, Tecumseh, Mich. Horse hay-fork	317,165	May 5	323	80	31	582
McKinney, Truman D., and W. A. Soper, Tecumseh, Mich. Clay-crushing machine	311,081	Jan. 20	1214	332	30	239
McKinney, Walter S., Binghamton, N. Y. Machine for making paper pails, &c.	328,328	Oct. 13	1057	273	33	200
McKinney, William H., Evansville, Ind. Steam-boiler covering	319,738	June 9	1036	274	31	1248
McKinna, William C., Red Bluff, Ark. Steam-valve	312,438	Feb. 17	1413	390	30	626
McKinnon, Calvin. (See McCormick and McKinnon.)						
McKinnon, Duncan W., North Sydney, Nova Scotia, Canada. End-gate fastening	322,192	July 14	1069	277	32	203
McKinnon, John D., Bay City, Mich. Grate-bar	321,442	July 7	37	10	32	10
McKinnon Manufacturing Company. (See Maxon, Daniel M., assignor.)						
McKinnon, Murdoch M., Laurinburg, N. C. Hame	329,472	Nov. 3	65	18	33	517
McKinnon, Murdoch M., Laurinburg, N. C. Hame-fastener	332,270	Dec. 15	1509	395	33	1282
McKinzie, Thomas D., Colorado, Tex. Fire-escape	329,190	Oct. 27	2269	587	33	434
McKnight, Andora, et al. (See Orr and Seivard, assignors.)						
McKnight, Levi G., and H. C. Knowlton, Gardner, Mass. Boring-machine	328,966	Oct. 27	1939	505	33	375
McKnight, M. Brayton, et al. (See Orr and Seivard, assignors.)						
McLachlan, John C., assignor to P. Patterson, Patterson, Ontario, Canada. Cord-holder for harvester-binders	313,094	Mar. 3	72	20	30	791

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McLachlan, John C., London, Ontario, Canada, assignor to Johnston Harvester Company, Batavia, N. Y. Grain-binder	394,233	Sept. 15	1354	350	32	1279
McLagan, George, Stratford, Ontario, Canada. Extension-table	317,825	May 12	1802	318	31	752
McLain, Charles B., assignor to F. H. Miller and J. G. Bower, Watsontown, Pa. Table-leg	316,286	Apr. 21	1802	473	31	339
McLane, Rood A., Queen City, Tex. Signal-valve for boilers	312,741	Feb. 24	1751	482	30	696
McLaren, John R., Jr., Montreal, Quebec, Canada. Toboggan	312,879	Feb. 24	1937	530	30	730
McLaughlin, Garrett B., Petersburg, W. Va. Automatic car-brake	318,775	May 26	2471	602 } 663 }	31	1002
McLaughlin, Henry, Bangor, Me. Coal-ing-locomotives	323,526	Aug. 4	264	77	32	571
McLaughlin, James F., Philadelphia, Pa. Telephonic appliance	328,702	Oct. 20	1579	411	33	302
McLaughlin, James F., Philadelphia, Pa. Telephonic transmitter	328,703	Oct. 20	1580	412	33	302
McLaughlin, James F., assignor, by mesne assignments, to National Electric Railway System, (limited,) Philadelphia, Pa. Electric railway	328,490	Oct. 13	1900	310	33	227
McLaughlin, James F., assignor, by mesne assignments, to National Electric Railway System, (limited,) Philadelphia, Pa. Electric railway	330,605	Nov. 17	1572	421	33	820
McLaughlin, James F., assignor, by mesne assignments, to National Electric Railway System, (limited,) Philadelphia, Pa. Electric railway	332,926	Dec. 22	2423	641	33	1453
McLaughlin, James F., assignor, by mesne assignments, to National Electric Railway System, (limited,) Philadelphia, Pa. Electric railway	332,927	Dec. 22	2424	641	33	1453
McLaughlin, James F., assignor, by mesne assignments, to National Electric Railway System, (limited,) Philadelphia, Pa. Electric railway	332,928	Dec. 22	2425	641	33	1453
McLaughlin, James F., assignor to National Electric Railway System, (limited,) Philadelphia, Pa. Electric railway	332,929	Dec. 22	2425	641	33	1454
McLaughlin, Stephen R., assignor of one-half to V. Wipfler, San Francisco, Cal. Hoecarriage	320,429	June 23	2119	558	31	1455
McLaughlin, William, Auckland, New Zealand. Hedge-trimmer	322,133	July 14	1069	273	32	203
McLean, Alexander D., Chicago, Ill. Machine for shaving curved stereotype-plates	314,391	Mar. 24	1829	487	30	1144
McLean, Andrew, New York, N. Y. Tenting-machine	315,809	Apr. 14	1152	302 } 303 }	31	216
McLean, Anthony, San Francisco, Cal. Extension baby-carriage	329,579	Nov. 3	214	56	32	545
McLean, John, Camden, Ala. Wrench	325,001	Aug. 25	2188	569	32	951
McLean, John F. (See Davis, Riley L., assignor.)						
McLean, John R., et al. (See Gifford, Ezra N., assignor.)						
McLean, Washington, et al. (See Gifford, Ezra N., assignor.)						
McLellan, Charles H., Tom's River, N. J. Life-saving apparatus	315,315	Apr. 7	457	116	31	83
McLellan, Daniel G., Rhodes, N. C. Apparatus for curing tobacco	328,729	Dec. 22	2166	572	33	1402
McLellan, Daniel M., Brooklyn, N. Y. Calendar	310,169	Apr. 21	1644	430	31	312
McLellan, Daniel M., Brooklyn, N. Y. Show-card	330,250	Nov. 10	1103	292	33	724
McLellan, Donald, Woodstock, Ontario, Canada. Mop-head	325,261	Sept. 1	40	12	32	1023
McLendon, Elijah W. and J. W., Martin's Station, Ala. Seed-planter and fertilizer-distributor	322,306	July 14	1199	315	32	228
McLendon, Joseph W. (See McLendon, Elijah W. and J. W.)						
McLennan, Alexander, Pittsburg, Pa. Gas-regulating valve	315,050	Apr. 7	87	21	31	18
McLennan, John A. (See Heidenreich, Eyvind L., assignor.)						
McLennan, Kenneth, Berkeley, Cal. Budding-knife	316,559	Apr. 28	2172	572	31	413
McLeod, Charles G., Worcester, Mass. Joint for wire, wire rods, cables, &c	328,502	Oct. 20	1298	338	33	273
McLeod, Daniel, Watertown, N. Y. Slack-adjuster for car-brakes	330,251	Nov. 10	1105	293	33	724
McLeod, William S. (See Goudry and McLeod.)						
McLewee, Frederick, New York, N. Y. Sign	328,135	Oct. 13	815	213	33	155
McLewee, William S., New York, N. Y. Forced-draft lamp	320,020	June 10	1522	403	31	1342
McLewee, William S., New York, N. Y. Lamp	330,081	June 16	1523	403	31	1342
McLoughlin, Edmund, et al. (See Campbell, Andrew, assignor.)						
McLoughlin, Edmund, Brooklyn, N. Y. Plaque	311,772	Feb. 3	404	110	30	424
McLoughlin, John, et al. (See Campbell, Andrew, assignor.)						
McLoughlin, John E. (See Hanford and McLoughlin.)						
McMackin, Peter, Lonsdale, R. I. Underground conductor	327,458	Sept. 29	3017	798	32	1501
McMahl, John, Louisville, Ky. Mouth-harp	320,440	June 16	2050	538	31	1435
McMahon, Dennis, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Lamp-hanger	331,521	Dec. 1	376	101	32	1066
McMahon, Michael, Bucyrus, Ohio. Grain-scourer	331,074	Nov. 24	2173	590	33	942
McMahon, William. (See Mills, Francis E., assignor.)						
McManes, William, and J. C. Losee, Summit, N. J. Adjustable window-curtain	331,901	Dec. 8	971	251	23	1180
McManus, Alonzo. (See Herrick and McManus.)						
McManus, James, New York, N. Y. Hand-strap for cars	323,188	July 28	2131	643	32	466
McManus, Samuel, Marshalltown, Iowa. Railway-track gage and level	323,351	July 28	2662	708 } 709 }	32	507
McManus, Thomas W. (See Kriz, Hammel, and McManus.)						
McMartin, James I., Johnstown, N. Y., assignor of one-half to A. Levering, Lafayette, Ind. Glove and glove-fastening	326,770	Sept. 22	2096	544	32	1421
McMaster, Frank, Cherryvale, Kans. Tree-protector	329,926	Nov. 10	678	174	33	339
McMaster, Horace P., Leonardsburg, Ohio. Vinegar-generator	323,056	July 23	2248	504	32	431
McMaster, Marion E., Shelbyville, Mo. Folding book and paper rack	313,223	Mar. 3	266	67	30	826
McMasters, John S. (See Babbott, Roberts, and Banker, assignors.)						
McMeekan, David, et al. (See Hohenstein, Karl A., assignor.)						
McMeekin, Lucinda. (See McMeekin, Thomas G. W. and L.)						
McMeekin, Thomas G. W. and L., Cedar Town, Ga. Vehicle-wheel hub	316,560	Apr. 23	2173	572	31	413
McMenamin, Peter, Jersey City, N. J. Fire-kindler	332,816	Dec. 22	2368	598	33	1424
McMicklin, Levi S., Cold Springs, Tex. Wire-stretcher	323,947	Aug. 11	720	204	32	628
McMillan, George J., Teachey's, N. C. Seed-distributor	325,106	Aug. 25	2314	637	32	976
McMillan, Solomon D., Rochester, and C. H. Ham, Charlotte, N. Y. Lubricating compound	311,347	Jan. 27	1589		30	314
McMillen, Ephraim W., et al. (See Dodsworth, David, assignor.)						
McMillen, Gilbert M. L., Dayton, Ohio. Reaper-truck	310,214	Jan. 6	70	18	30	15
McMillin, Robert. (See Glover, John H., assignor.)						
McMinn, Preston K., Dement, Ill. Heating-stove	310,904	Jan. 20	931	250	30	121
McMullan, David, New York, N. Y. Ornamenting wood	314,392	Mar. 24	1830	487	30	1141
McMullen, John C., St. Augustine, Fla. Automatic swinging chair	323,709	Aug. 4	424	121	32	602
McMullen, Joseph A., and A. R. Bloodworth, Stephens Pottery, Ga. Machine for thrashing peas	329,799	Oct. 20	1694	441	33	324
McMullin, Michael, Denver, Colo. Lubricator	312,283	Feb. 17	1137	312	30	575
McMurray, Henry B., Burgetstown, Pa. Traction-engine	316,194	May 19	1020	453	31	851
McMurray, John C., Brooklyn, N. Y. Safety attachment for beds and berths	329,663	Nov. 3	318	82	33	565
McMurray, Lang & Burnham. (See Bostwick, Jabez A., assignor.) (Reissue.)						
McMurray, Louis, Baltimore, Md. Stone-drilling machine	311,082	Jan. 20	1216	333	30	229

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McMurray, Thomas J., and W. B. Fisher, Marion, Ohio. Sulky	324,140	Aug. 11	990	{ 979 973 }	32	715
McMurtrie, James E., assignor to himself, W. Barkla, S. B. and D. M. Stoler, Saxton, Pa. Ribbon-reel	320,191	Oct. 27	2370	588	33	434
McMurtry, James S., assignor of two-thirds to M. T. Milona and W. H. F. Harvey, St. Louis, Mo. Dumping-wagon	319,739	June 9	1037	975	31	1248
McMurtry, John, Lexington, Ky. Railway-spike	314,863	Mar. 31	2422	687	30	1290
McNab, James, assignor to United States Chemical Company, Camden, N. J. Manufacturing sulphuric acid	325,262	Sept. 1	40	12	32	1023
McNab, James, assignor to United States Chemical Company, Camden, N. J. Apparatus for the manufacture of sulphuric acid	325,263	Sept. 1	42	12, 13	32	1023
McNair, David A., Warsaw, N. Y. Manufacture of glass cruets	311,197	Jan. 27	1381	378	30	275
McNair, Eben O. (See Duncan, Joseph M., assignor.)						
McNamara, John. (See Fennell, Martin, assignor.)						
McNamara, Timothy E. (See Conner and McNamara.)						
McNary, Isaac R., New York, N. Y., assignor to Seibert Cylinder Oil Cup Company, Hartford, Conn. Oil-cup	330,506	Nov. 17	1454	389	33	798
McNaughton, James. (See Small and McNaughton.)						
McNaughton, John G., Marion, N. C. Fruit-drier	327,006	Sept. 20	2422	633	32	1498
McNeal, James, assignor of one-half to C. H. Seaton, Washington, D. C. Fishing-float	326,134	Sept. 15	1215	310	32	1254
McNeill, George, Chicago, Ill. Automatic lubricator	313,095	Mar. 3	73	20	30	701
McNeill, James C., Akron, Ohio. Steam-boiler	322,653	July 21	1636	432	32	313
McNelly, Matthias J., Wilmington, Del. Unloading and elevating apparatus	310,699	Jan. 13	692	190	30	137
McNett, Lyman F., assignor to Excelsior Gas Machine Company, New York, N. Y. Carburetor	320,664	Nov. 3	319	82	33	505
McNicholas, Thomas, Memphis, Mo. Brick-kiln	318,490	May 26	2064	563	31	923
McNichols, Thomas C., Belmont, Ohio. Hay-carrier	310,700	Jan. 13	693	190	30	138
McNiece, Thomas B., assignor to Michigan Lubricator Company, Detroit, Mich. Lubricator	330,914	Nov. 24	1978	535	33	905
McNiece, William, Philadelphia, Pa. Ice-creeper	319,291	June 2	433	116	31	1130
McOmber, Pliny, Maple Grove, Mich. Wire fence	331,807	Dec. 8	528	211	33	1153
McPherson, Alexander, and F. P. Rameadell, Ypsilanti, Mich. Vehicle running-gear	332,930	Dec. 22	2427	642	33	1454
McPherson, Andrew G., Quinton, N. J. Horse-blanket	312,880	Feb. 24	1938	530	30	730
McPherson, Henry, assignor to W. P. Kellogg, Troy, N. Y. Whip-rack	317,826	May 12	1203	319	31	752
McPherson, James A., Brunswick, N. Y. Whip-rack	321,624	July 7	201	77	32	56
McPherson, Leon O., Jefferson township, Cook county, Ill. Quadruplex telegraph	322,739	July 21	1788	472	32	341
McQuarrie, Malcolm S. (See Dorsey and McQuarrie.)						
McQueen, A., et al. (See Campbell, Hugh A., assignor.)						
McQueen, John, and W. H. Carmont, Manchester, county of Lancaster, England. Vehicle-body	330,996	Nov. 24	2064	564	33	925
McQueen, W., et al. (See Campbell, Hugh A., assignor.)						
McQuisten, Calvin B. (See Dunn, William, assignor.)						
McQuire, Henry, assignor to Link Belt Machinery Company, Chicago, Ill. Elevator for hoisting and lowering and automatically discharging barrels, &c.	311,773	Feb. 3	405	110	30	494
McRae, John D., Baldwinville, N. Y. Steam-governor	326,441	Sept. 15	1628	496	32	1330
McRae, William T., Philadelphia, Pa. Friction clutch and coupling	332,931	Dec. 22	2427	642	33	1454
McRea, James A., Austin, Tex. Churn	317,559	May 12	850	218	31	696
McRoberts, Mortimer, Chicago, Ill. Lantern	321,993	July 14	801	{ 309 210 }	32	154
McSherry & Co., D. E. (See Cotton, James B., assignor.)						
McSherry & Co., D. E. (See Myers and Cotton, assignors.)						
McSpirit, John, Jersey City, N. J. Pick attachment for dredge-buckets	324,573	Aug. 18	1566	437	32	833
McTammany, Alexander. (See McTammany, John, assignor.)						
McTammany, John, assignor to A. McTammany, Worcester, Mass. Mechanical musical instrument	321,738	July 7	435	116	32	81
McTammany, John, assignor to A. McTammany, Worcester, Mass. Automatic musical instrument	328,503	Oct. 20	1299	332	33	253
McTighe, James J., Freeport, Pa. Hot-air engine	321,739	July 7	438	{ 110 117 }	32	82
McTighe, Thomas J. (See Hoeveler and McTighe.)						
McTyeire, William C., Hatchechubbee, Ala. Piston-packing	329,665	Nov. 3	321	82	33	565
McVay, Byron B., et al. (See Linham, Robert E., assignor.)						
McVeety, Alexander, Howard, assignor of one-half to J. Keys, Hennepin County, Minn. Band-cutting and feeding mechanism for thrashing machines	330,507	Nov. 17	1456	390	33	798
McVey, William, Hopkins, Mo. Railway-tie	312,881	Feb. 24	1939	530	30	730
McVickar, James, Caldwell, N. J. Cherry-pitting machine	312,370	Feb. 17	1251	345	30	596
McWaters, Mary, Bethel, Conn. Corset attachment	318,776	May 26	2475	663	31	1003
Meacham, Randall, Chico, Cal. Fan attachment for vehicles	320,092	June 16	1524	404	31	1342
Meacham, William B., Boydton, Va. Axle skein and box	311,774	Feb. 3	408	110	30	425
Mead, Albert G., assignor of one-half to M. A. Kent, Boston, Mass. Button	325,430	Sept. 1	289	71	32	1071
Mead, Albert G., Boston, Mass., assignor to Ball and Socket Fastener Company, Nashua, N. H. Button	325,688	Sept. 8	624	158	32	1138
Mead, Albert G., and E. F. Pierce, assignors to M. A. Kent, Boston, Mass. Spring-stud for gloves, &c.	312,571	Feb. 17	1528	417	30	648
Mead, Birdsall H., assignor of two-thirds to S. Schmuck and C. F. Hunger, Cleveland, Ohio. Reclining-chair	316,287	Apr. 21	1803	474	31	339
Mead, Charles L., New York, N. Y., assignor to Stanley Rule and Level Company, New Britain, Conn. Bench-plane	311,136	Jan. 20	1289	354	30	252
Mead, Charles R., Community, N. Y. Lathe-chuck	321,740	July 7	440	117	32	82
Mead, Chester K., Des Moines, Iowa. Telephone-switch-board plug	325,952	Sept. 8	970	247	32	1202
Mead, Edwin D., Shortsville, N. Y. Hay and grain elevator and carrier	320,267	June 16	1762	{ 468 469 }	31	1384
Mead, Jefferson, Windham, N. Y. Carpet-stretcher	327,609	Oct. 6	399	104	33	70
Mead, Solomon, New Haven, Conn. Friction-clutch	323,189	July 28	2431	644	32	486
Mead, William S., Spencer, Ind. Car-coupling	318,777	May 26	2476	663	31	1003
Meade, George H., Quincy, assignor to M. Bray, Newton, Mass. Anvil for rivet-setting machines	325,689	Sept. 8	627	159	32	1138
Meade, George H., Quincy, assignor to M. Bray, Newton, Mass. Rivet	328,704	Oct. 20	1581	412	33	302
Meade, James S. (See Bunker, Le Roy S., assignor.)						
Meadows, Henry, Windsor, Ontario, Canada. Pipe-vise	329,406	Oct. 27	2591	668	33	492
Meagher, Edmund D., and C. E. Tower, South Bend, assignors to Economist Plow Company, St. Joseph county, Ind. Sulky-plow	313,749	Mar. 10	968	250	30	966
Mealy, Michael, Cohoes, N. Y. Stove-pipe	327,705	Oct. 6	369	68	33	48

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Mear, Alfred H., et al. (See Vanden Bergh, Peter, assignor.)						
Mears, John M., and R. Jennings, Sedalia, Mo. Mattress-machine	392,740	July 21	1793	472	32	342
Meata, John T., Taunton, Mass. Self-stripping mechanism for carding-machines	319,107	June 3	215	56	31	1087
Meata, John T., Taunton, Mass. Spindle-bearing for mules and jacks	394,866	Aug. 25	2004	550	32	918
Meatyard, Edward B., Lake Geneva, Wis. Manufacture of car-wheels	310,701	Jan. 13	694	190	30	128
Meatyard, Edward B., Lake Geneva, Wis. Railway	310,702	Jan. 13	697	191	30	138
Meatyard, Edward B., Lake Geneva, Wis. Rolling-mill	324,867	Aug. 25	2006	551	32	918
Meatyard, Edward B., Lake Geneva, Wis. Apparatus for pressing ingots	328,329	Oct. 13	1062	275	33	201
Mecay, Samuel P., Kilbourn, Ohio. Washing-machine	327,003	Sept. 29	2419	632	32	1487
Mecham, George W., Columbia, Tex. Wheel	324,141	Aug. 11	991	273	32	715
Mecham, James G., Madison, Nebr. Warning oven and radiator	311,908	Feb. 10	602	165	30	408
Mechanicsburg Machine Company. (See Martin and Baker, assignors.)						
Mecke, Hermann, New York, N. Y. Folding flower-stand	325,850	Sept. 8	850	215	32	1178
Medart, Martin, Belleville, Ill. Automatic horse-check	333,421	Dec. 29	3116	514	33	1520
Medart, Philip, St. Louis, Mo. Shaft-hanger	319,004	June 2	91	24	31	1065
Medart, Philip, assignor of one-half to W. Medart, St. Louis, Mo. Journal-box	320,151	June 16	1618	431	31	1332
Medart, William. (See Medart, Philip, assignor.)						
Medcraft, John H., Newark, N. J. Trunk-fastener	311,348	Jan. 27	1000	438	30	315
Medley, Granville E., and M. W. Williams, Hopkinsville, Ky. Lathe	318,778	May 23	2477	663	31	1003
Medynski, Fred. V., Des Moines, Iowa. Furnace-grate	310,215	Jan. 6	71	19	30	15
Meech, Harrison B., Cleveland, Ohio. Apparatus for disintegrating ores	321,235	July 7	591	153	32	108
Meek, S. Mason, Chicago, Ill. File for holding blanks	314,598	Mar. 31	2108	562	30	1220
Meek, William E. (See Shank and Meek.)						
Meeker, Rolla. (See Spross and Meeker.)						
Meeker, Walter C., et al. (See Brown, Thomas R., assignor.)						
Meekison, John. (See Carroll and Meekison.)						
Meese, Constant, Oakland, Cal. Device for locking collars and rings to shafts	331,522	Dec. 1	377	101	33	1086
Mefford, David M., Toledo, Ohio. Pneumatic cannon	314,298	Mar. 24	1711	455	30	1121
Mege, Andrew J., assignor to himself, J. Y. Huber, and F. H. Miller, Philadelphia, Pa. Clasp for albums and other books	311,438	Jan. 27	1721	468	30	337
McHatley, James C., Kansas City, Mo. Folding table	318,779	May 26	2478	664	31	1003
McBryer, Henrietta L., New Rochelle, N. Y. Folding wardrobe and chiffonier	310,703	Jan. 13	700	191	30	139
Mehring, George, Chicago, Ill. Fuel-magazine for steam-generators	319,005	June 2	93	24	31	1065
Meier, Charles E., et al. (See Hayes, Carl E., assignor.)						
Meier, Charles E., et al. (See McArdle, Frank, assignor.)						
Meier, Friedrich C. A., Walkenried-on-the-Harz, Brunswick, Germany. Apparatus for manufacturing plates, tubes, and other articles from clay, cement, plaster-of-paris, &c	323,190	July 28	2432	644	32	467
Meier, William, Newark, N. J. Spark-arrester	318,573	May 26	2213	501	31	954
Meigs, Carlos D., Au Sable Forks, N. Y. Car-coupling	326,442	Sept. 15	1629	426	32	1330
Meigs, Joe V., Lowell, Mass. Railway	313,830	Mar. 10	1074	277	30	985
Meikle & Company, Thomas. (See Meikle, James W., assignor.)						
Meikle & Company, Thomas. (See Meikle, Thomas, assignor.)						
Meikle, James, Providence, R. I. Bleaching apparatus	311,349	Jan. 27	1601	439	30	315
Meikle, James W., assignor to T. Meikle & Company, Louisville, Ky. Wheel-plow	316,802	Apr. 28	2320	658	31	476
Meikle, Thomas, assignor to T. Meikle & Company, Louisville, Ky. Cultivator	312,489	Feb. 17	1414	390	30	626
Meikle, Thomas, assignor to T. Meikle & Company, Louisville, Ky. Cotton-seed planter	323,771	Sept. 22	2097	545	32	1421
Meikle, Thomas, assignor to T. Meikle & Company, Louisville, Ky. Wheel-plow	339,232	Nov. 10	1106	293	33	724
Meil, John, Baltimore, Md. Fire-kindler	329,263	June 16	1768		31	1325
Meinecke, Ferdinand, Milwaukee, Wis. Woolen-shoe machine	310,216	Jan. 6	71	19	30	16
Meinhardt, Henry, Peru, Ind. Merchandise-holder	312,742	Feb. 24	1752	422	30	628
Meinhold, Theodore, Klingenthal, Saxony, Germany. Mechanical musical instrument	329,473	Nov. 3	66	18	31	517
Meinkhof, Bernard G., Newtown, N. Y. Spring-seat support	311,596	Feb. 3	156	53	30	323
Meise, Eduard, Pittsburgh, Pa. Forming insoles for shoes	319,740	June 9	1038	275	31	1219
Meisner, John G., Chicago, Ill. Automatic elevator-gate	319,292	June 2	431	117	31	1130
Meissner, John, assignor to himself, R. Fleischman, I. Kayser, P. L. Sondheim, L. Steckler, and J. C. Stanton, Jr., New York, N. Y. Car-brake	328,939	Oct. 27	1926	502	31	373
Meister, Carl, assignor to P. Thomsen, Philadelphia, Pa. Mouth-piece for brass musical instruments	315,810	Apr. 14	1156	303	31	217
Mekkeney, Alendo, Middleborough, Mass. Fertilizer-distributor	328,596	Oct. 20	1428	372	31	275
Mekkeney, Alendo, Middleborough, Mass. Planting-machine	328,597	Oct. 20	1430	372	33	276
Melançon, Ezeasippe D., and L. L. Savoy, Painscourtville, La. Stubble-digger	322,330	Oct. 13	1065	276	33	202
Meloy, Jane, administratrix. (See Taaffe, Henry M.)						
Melhorn, William E., Erie, Pa. Screw-cutting mechanism	327,959	Oct. 6	586	153	31	106
Melhorn, William E., assignor of one-half to A. T. Marsh, Erie, Pa. Pipe-cutter	330,233	Nov. 10	1107	293	33	724
Melick, Peter M., Newark, N. J. Blind-slat fastener	321,836	July 7	552	153	32	103
Melins, Lyman B., Copake, N. Y. Load-binder	311,421	Dec. 1	243	64	31	1641
Mellett, Frank, Sumter, S. C. Back-band buckle	322,624	July 21	1658	433	32	514
Mellotte, John, and F. M. Harris, assignors of one-third to W. H. Bouslog, Winamac, Ind. Driving-belt	323,675	Dec. 15	2040	546	32	1281
Mellinger, Christian K., Philadelphia, Pa. Shifting seat for vehicles	311,625	July 7	292	77	32	53
Mellinger, George V. L. (See Harger, Charles G., Jr., assignor.)						
Mellinger, Samuel, Mount Pleasant, Pa. Horse hay-rake	322,948	July 28	2049	555	32	401
Mellon, Peter H., St. Louis, Mo. Spring-bed	311,422	Dec. 1	244	64	31	1641
Mellon, Peter H., St. Louis, Mo. Spring-bed	331,523	Dec. 1	378	102	33	1056
Mellon, Peter H., St. Louis, Mo. Spring-bed-bottom	331,645	Dec. 1	665	149	31	1163
Mellon, Peter H., St. Louis, Mo. Spring-bed	331,989	Dec. 8	1102	266	33	1204
Mellor, James. (See Holt and Mellor.)						
Mellor, William. (See Moon, Harmon, assignor.)						
Mellum, Ole H., assignor of two-thirds to A. Stephenson and P. Arnold, Chicago, Ill. Composition for cleaning metal	314,256	Mar. 24	1645		30	1108
Melohn, Siegfried L. F., Milwaukee, Wis. Window-mirror	323,191	July 28	2434	645	32	467
Melroe, Thomas L., Chillicothe, Ohio. Sewing-machine stand	310,455	Jan. 6	373	103	30	77
Meltzer, David. (See Meltzer and Baker.)						
Meltzer, John H. and D., and J. J. Baker, Meltzer, Ind. Straw-stacker	323,352	July 28	2863	709	32	502

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Melvin, David N., Lincolnville, N. Y. Manufacture of floor oil-cloth	330,254	Nov. 10	1108	294	33	794
Melville, Charles H., and T. W. Brown, Chattanooga, Tenn. Rotary engine	310,531	Jan. 6	469	129	30	90
Melzer, Adolph and C., Evansville, Ind. Compound for purifying water	322,839	July 21	1928		32	367
Melzer, Charles. (See Melzer, Adolph and C.)						
McNahan, John, New York, N. Y. Fastener for bags	329,192	Oct. 27	2271	568	33	434
Menard, George. (See Wixon and Menard.)						
Mendenhall, Henry W., agent. (See Hunt, Franklin B., assignor.)						
Mendenhall, Stephen C. (See Jackson, Frederick W., assignor.)						
Mendenhall, Stephen C. (See Way, Francis K., assignor.)						
Mendenhall, Stephen C., Richmond, Ind. Caster	314,948	Mar. 31	2602	689	30	1310
Mendenhall, Stephen C., Richmond, Ind. Caster	314,949	Mar. 31	2604	689	30	1310
Mendenhall, Stephen C., Richmond, Ind. Caster	314,950	Mar. 31	2605	689	30	1310
Mendenhall, Stephen C., Richmond, Ind. Caster	314,951	Mar. 31	2606	689	30	1310
Mendenhall, Stephen C., Richmond, Ind. Caster	314,952	Mar. 31	2606	690	30	1311
Mendenhall, Stephen C., Richmond, Ind. Caster	314,953	Mar. 31	2607	690	30	1311
Mendenhall, Stephen C., Richmond, Ind. Caster	314,954	Mar. 31	2608	690	30	1311
Mendenhall, Stephen C., Richmond, Ind. Caster	314,955	Mar. 31	2610	690	30	1311
Mendenhall, Stephen C., Richmond, Ind. Caster	314,956	Mar. 31	2611	691	30	1311
Mendenhall, Stephen C., Richmond, Ind. Caster	314,957	Mar. 31	2612	691	30	1311
Mendenhall, Stephen C., Richmond, Ind. Caster	314,958	Mar. 31	2613	691	30	1311
Mendenhall, Stephen C., Richmond, Ind. Caster	314,959	Mar. 31	2613	691	30	1312
Mendenhall, Stephen C., Richmond, Ind. Caster	314,960	Mar. 31	2615	692	30	1312
Mendenhall, Stephen C., Richmond, Ind. Caster	314,961	Mar. 31	2617	692	30	1312
Mendenhall, Stephen C., Richmond, Ind. Caster	314,962	Mar. 31	2619	693	30	1313
Mendenhall, Stephen C., Richmond, Ind. Caster	314,963	Mar. 31	2620	693	30	1313
Mendenhall, Stephen C., Richmond, Ind. Caster	314,964	Mar. 31	2622	694	30	1313
Mendenhall, Stephen C., Richmond, Ind. Caster	314,965	Mar. 31	2624	694	30	1313
Mendenhall, Stephen C., Richmond, Ind. Caster	314,966	Mar. 31	2626	695	30	1314
Mendenhall, Stephen C., Richmond, Ind. Caster	314,967	Mar. 31	2628	695	30	1314
Mendenhall, Stephen C., Richmond, Ind. Caster	314,968	Mar. 31	2629	695	30	1314
Mendenhall, Stephen C., Richmond, Ind. Glass roller for skates, casters, and other articles, and producing the same	314,969	Mar. 31	2631	696	30	1314
Mendenhall, Stephen C., Richmond, Ind. Manufacture of glass rollers	314,970	Mar. 31	2633	697	30	1314
Mendenhall, Stephen C., Richmond, Ind. Manufacture of glass rollers	314,971	Mar. 31	2635	697	30	1315
Mendenhall, Stephen C., Richmond, Ind. Anti-friction bearing for car-wheels	321,516	July 7	155	10, 41	32	30
Mendenhall, Stephen C., Richmond, Ind. Roller-skate	329,927	Nov. 10	679	174	33	639
Mendes, Joseph H. E., assignor to Société Anonyme Dite Compagnie Industrielle des Procédés Raoul Pictet, Paris, France. Compound liquid for use in the art of refrigeration	310,108	June 2	217	57	31	1087
Meneely, George R., Albany, and J. Gibbons, assignors to Meneely Hardware Company, West Troy, N. Y. Car-axle oiler	322,025	July 21	1088	433	32	314
Meneely Hardware Company. (See Gibbons, John, assignor.)						
Meneely Hardware Company. (See Meneely and Gibbons, assignors.)						
Menelas, Constantine, et al. (See Smith, T. Albee, assignor.)						
Mengel, Charles S. (See Hughes and Mengel.)						
Menges, Philipp, New York, N. Y. Piano-action	317,660	May 12	981	254	31	709
Menges, Philipp, New York, N. Y. Piano-action	321,517	July 7	156	41, 42	32	31
Menges, Philipp, New York, N. Y. Repeating action for upright pianos	323,576	Sept. 23	1795	471	32	1369
McNough, George W., Wellsville, Ohio. Sled-iron	328,600	Oct. 20	1695	441	33	325
Mensching, Carl. (See Vollbrecht and Mensching.)						
Mensing, John F. (See Holcomb, Frank L., assignor.)						
Mensor, Abo W., Jacksonville, Oreg. Combined lapel vest and overshirt	316,603	Apr. 23	2522	659	31	476
Mentel, Ferdinand L., Cincinnati, Ohio. Water-hammer preventive	312,631	Feb. 24	1939	531	30	730
Mentel, Ferdinand L., Cincinnati, Ohio. Thawing-machine	325,602	Aug. 25	2189	509	32	951
Mercer, Andrew J., Burdenville, assignor to J. M. Mercer and L. E. White, Burden, Kans. Washing-machine	322,840	July 21	1929	510	32	367
Mercer, David, Bethlehem, Pa. Balanced valve	312,000	Feb. 10	734	200	30	492
Mercer, James M., et al. (See Mercer, Andrew J., assignor.)						
Mercer, Rachel A., et al. (See Cash, Evan F., assignor.)						
Mercer, Solomon, Bird's Run, Ohio. Sulky-frame for plows	315,316	Apr. 7	450	116	31	83
Mercer, William G., Burlington, Iowa. Hub for vehicle-wheels	320,061	Oct. 27	2084	541	33	401
Mercer, William H., Mercer, S. C. Grain-separator	317,927	May 12	1204	319	31	752
Mercer, William H., Mercer, S. C. Automatic fan	328,705	Oct. 20	1582	412	33	302
Merchants' Store Service Company. (See Bigelow, William P., assignor.)						
Meredith, David, Syracuse, N. Y. Horsehoe-pad	329,193	Oct. 27	2274	568	33	434
Meredith, Hartford M., et al. (See McDonald, Gilbert, assignor.)						
Meredith, Oliver R., J. I. Gallacher, and C. F. Jones, Salt Lake City, Utah Ter. Trunk	310,704	Jan. 13	701	191	30	139
Meredith, Robert, Lynnville, Iowa. Drying rubber boots	314,460	Mar. 24	1914	511	30	1160
Mergenthaler, John, Hancock County, Ohio. Railway-tie extractor and replacer	317,829	May 12	1210	320	31	73
Mergenthaler, Ottmar. (See Hahl and Mergenthaler.)						
Mergenthaler, Ottmar, Baltimore, Md. Shaft-bearing	324,400	Aug. 18	1359	370	32	792
Mergenthaler, Ottmar, Baltimore, Md., assignor to National Typographic Company, Washington, D. C. Producing printing-surfaces	311,350	Jan. 27	1603	430	30	315
Mergenthaler, Ottmar, Baltimore, Md., assignor to National Typographic Company, Washington, D. C. Machine for producing stereotype-matrices	312,145	Feb. 10	922	272	30	528
Mergenthaler, Ottmar, Baltimore, Md., assignor to National Typographic Company, of West Virginia. Machine for producing printing-bars	313,224	Mar. 3	268	69	30	826
Mergenthaler, Ottmar, Baltimore, Md., assignor to National Typographic Company, Washington, D. C. Machine for producing printing-bars	317,828	May 12	1205	319	31	752
Mergenthaler, Ottmar, Baltimore, Md., assignor to National Typographic Company, Washington, D. C. Matrix-making and printing machine	328,960	Oct. 27	1927	503	33	373
Mergenthaler, Ottmar, Baltimore, Md., assignor to National Typographic Company, Washington, D. C. Machine for dressing type-bars	328,961	Oct. 27	1931	503	33	373
Mergenthaler, Ottmar, Baltimore, Md., assignor, by mesne assignments, to National Typographic Company, Washington, D. C. Machine for forming type-matrices	332,354	Dec. 15	1622	426	33	1303

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Meriam, Homer. (See Fuller, Arthur A., assignor.)						
Meriam, Joseph B. (See Dean, Richard, assignor.)						
Meriden Malleable Iron Company. (See Lawton, Lyman T., assignor.)						
Meriden Malleable Iron Company. (See Tidgewell, William, assignor.)						
Merino Shoe Company. (See Hawley, Alfred A., assignor.)						
Merkelbach, Adolf, Bienne, Switzerland. Watch-regulator.	318,780	May 26	9479	664	31	1003
Merle, Apollonie. (See Merle, Emilie and A.)						
Merle, Emilie and A., Paris, France. Adjustable model or dummy for dress-makers' use.	317,830	May 19	1911	290	31	753
Merrill, Albert R., Marshalltown, Iowa. Can watering-machine.	312,648	Feb. 24	1623	447	30	675
Merrill, Frederick A., Chicago, Ill. Perfumed advertising-packet.	325,107	Aug. 25	2316	637	32	976
Merriam, Henry P., Lawrence, Mass. Bottle-washer.	321,128	June 30	2856	783	31	1617
Merriam, Homer. (See Fuller, Arthur A., assignor.)						
Merriam, I. Z. (See Niehliss, Anthony, assignor.)						
Merriam, Truman, Milwaukee, Wis. Non-conducting boiler-covering.	327,810	Oct. 6	400	104	33	70
Merrick, Alva R., Blossburg, Pa. Head-rest for dental chairs.	333,019	Dec. 22	2563	674	33	1478
Merrifield, Albert A., St. Albans, Vt. Indicator.	316,268	Apr. 21	1804	474	31	340
Merrill, Alfred K., Brooklyn, assignor to G. A. Goldsmith, New York, N. Y. Manufacture of paper cuffs.	324,267	Aug. 11	1179	390	32	749
Merrill, Bisbee B., Brewer, Me. Combined square, bevel, and level.	312,743	Feb. 24	1753	482	30	698
Merrill, Bisbee B., Brewer, Me. Tubular lantern.	323,710	Aug. 4	425	122	32	603
Merrill, Calvin J., and W. Viggers, Des Moines, Iowa. Automatic cut-off and take-away for drain-tile machines.	332,546	Dec. 15	1897	496	33	1348
Merrill, Charles A., Bay City, Mich. Salt-grainer.	324,142	Aug. 11	992	273 274	32	715
Merrill & Co., E. H. (See Merrill, Henry E., assignor.)						
Merrill & Co., E. H. (See Merrill and Dempsey, assignors.)						
Merrill, Edwin C., Pittsburg, Pa. Gas-pressure regulator.	329,928	Nov. 10	681	174	33	639
Merrill, Edwin C., assignor, by mesne assignments, to G. Westinghouse, Jr., Pittsburg, Pa. Gas cut-off.	313,750	Mar. 10	971	251	30	966
Merrill, Frank M., et al. (See Young, Harlan P., assignor.)						
Merrill, George P., Toledo, Ohio. Traction-increaser for locomotives.	316,380	Apr. 21	1925	508	31	361
Merrill, Henry E., assignor to E. H. Merrill & Co., Akron, Ohio. Machine for making crock-rims.	310,706	Jan. 13	703	192	30	139
Merrill, Henry E., and W. E. Dempsey, assignors to E. H. Merrill & Co., Akron, Ohio. Press for forming earthenware vessels.	310,705	Jan. 13	701	192	30	139
Merrill, Hiram T., Chicago, Ill. Piano-stool.	324,143	Aug. 11	994	274	32	715
Merrill, Jonathan G., Quincy, assignor to M. Merrill, Boston, Mass. Protecting buildings from fire.	323,518	Aug. 4	178	52	32	565
Merrill, Joshua. (See Woodbury, Merrill, and Patten.)						
Merrill, Joshua. (See Woodbury, Merrill, Patten, and Woodbury.)						
Merrill, Moody. (See Merrill, Jonathan G., assignor.)						
Merrill, Rufus S., assignor to Acme Paper Box Company, Boston, Mass. Folding box.	325,755	Sept. 8	731	182	32	1157
Merrill, Rufus S., assignor to Acme Paper Box Company, Boston, Mass. Folding box.	325,757	Sept. 8	731	183	32	1157
Merrill, Rufus S., assignor to Acme Paper Box Company, Boston, Mass. Paper box.	325,758	Sept. 8	732	183	32	1157
Merrill, Rufus S., assignor to Acme Paper Box Company, Boston, Mass. Folding box.	326,577	Sept. 22	1797	471	32	1369
Merrill, William, assignor of one-half to S. S. Mitts, East Saginaw, Mich. Circular sawing machine.	316,634	Apr. 28	2266	596	31	430
Merrill, William E. T., assignor to W. H. Hart, Jr., Philadelphia, Pa. Retainer for the bands of neckscarfs.	316,269	Apr. 21	1805	474	31	340
Merrinack Glove Company. (See Marsh, Alfred G., assignor.)						
Merriman, Alanson H., Meriden, Conn. Power-press.	316,969	May 5	77	91	31	537
Merriman, Lewis, assignor of one-half to W. S. Hinman, Beloit, Wis. House-ventilation.	323,587	Aug. 4	265	78	32	571
Merritt, Charles H., Danbury, Conn. Machine for compressing and evening felt and expelling water from the same.	331,423	Dec. 1	245	65	33	1041
Merritt, Charles H., Danbury, Conn., assignor to J. T. Waring, New York, N. Y. Hatter's tank.	314,461	Mar. 24	1914	511	30	1160
Merritt, Daniel H., Marquette, Mich. External friction-brake band for hoisting machinery.	312,146	Feb. 10	935	254 255	30	530
Merritt, Edward. (See Tyler and Merritt.)						
Merritt, Henry W., Somerville, assignor to W. H. Ireland, Boston, Mass. Stove-grate.	317,166	May 5	324	81	31	522
Merritt, Henry W., assignor to W. H. Ireland, Boston, Mass. Plastic compound for walls, &c.	322,307	July 14	1300		32	228
Merritt, James C., and L. A. C. Müller, said Müller assignor to J. Denton, Highland Falls, N. Y. Folding chair.	317,402	May 5	637	163	31	639
Merritt, James M., Marengo, Iowa. Wire-stretcher.	318,011	May 19	1461	391	31	808
Merritt, Samuel F., Springfield, Mass. Ear-wire catch for ear-rings.	326,135	Sept. 15	1216	310	32	1254
Merritt, Samuel F., Springfield, Mass., assignor to S. M. Griswold, New York, N. Y. Eye-glass-holder.	319,293	June 2	436	117	31	1130
Morrow, Joseph M., Merrow, Conn. Machine for sewing looped fabrics.	330,606	Nov. 17	1573	421 422	33	891
Morrow, Roscoe A., Farmington, Me. Car-coupling.	320,152	June 16	1619	431	31	1358
Merryman, Harry, Carbondale, Ill. Breast-strap iron.	333,320	Dec. 20	2987	729	33	1559
Mersereau & Co., W. T., et al. (See Brooks, John S., assignor.)						
Mersereau & Co., William T. (See Pine, William K., assignor.)						
Mersereau, Frank D., Orange, N. J. Lamp-shade.	310,953	Jan. 30	1029	270	30	203
Mershon, Edward C., East Saginaw, Mich. Cutter-head.	329,756	Nov. 3	447	113	33	569
Mershon, George W., Newark, N. J. Draw-bridge joint.	323,711	Aug. 4	427	122	32	603
Mershon, Samuel D., Rahway, N. J. Valve-oller.	324,574	Aug. 18	1586	437	32	833
Mertelheimer, Frederick, Denver, Colo., assignor of one-half to I. H. Congdon, Omaha, Nebr. Spark-arrester.	328,962	Oct. 27	1933	504	33	374
Mertelheimer, Frederick, and S. Otis, Denver, Colo. Grease and water trap for air-brakes.	324,575	Aug. 18	1587	437	32	833
Mertz, James E. (See Dunfee, James W., assignor.)						
Mertz, John F., B. Lorton, Unionopolis; said Mertz assignor to said Lorton; said Lorton assignor of one-half to N. Stout, Sidney, Ohio. Harvester-wheel.	312,883	Feb. 24	1940	531	30	731
Merwin, Nathan W., New Haven, Conn. Bread-cutter.	331,900	Dec. 8	1103	287	33	1204
Merwin, William R., et al. (See Aikman, Peter A., assignor.)						
Merz, Franz J., Newark, N. J. Water-closet.	322,626	July 21	1640	433 434	32	314
Merz, Theodore C., Detroit, Mich. Skate-clamp.	322,464	July 21	1421	379	32	275
Merz, Theodore C., Detroit, Mich. Capsule-machine.	324,868	Aug. 25	2007	551	32	918
Merz, Theodore C., Detroit, Mich. Capsule-joining machine.	326,578	Sept. 22	1797	479	32	1370
Meschter, Jacob K., Philadelphia, Pa. Heat-regulating device for incubators.	320,490	June 23	2120	550	31	1456

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Meserve, James W., et al. (See Hanson, Freeman, assignor.)						
Messenger, Rebecca. (See Kops, Samuel, assignor.)						
Messierly, James O., Baltimore, Ohio. Stone-worker's lathe.....	314,462	Mar. 24	1915	{ 511 512 }	30	1160
Messick, William L. (See Diggs and Messick.)						
Messinger, G. Frank, Stockertown, Pa. Horseshoe.....	318,276	May 19	1798	481	31	871
Messinger, George F., Stockertown, Pa. Grain harvester and binder.....	826,443	Sept. 15	1630	426	32	1330
Messinger, William T., Cambridge, Mass. Ejector.....	316,504	Apr. 28	2523	659	31	477
Metal Wheel Company. (See Delkescamp, Adolph.)						
Metcalf, Benjamin A. (See Otto and Metcalf.)						
Metcalf, Elliott, Cass City, Mich. Window-shade attachment.....	331,150	Nov. 24	2290	620	33	962
Metcalf, Erastus L., Franklin, Mass. Driving-check for horses.....	319,006	June 2	93	24	31	1065
Metcalf, Erastus L., Franklin, Mass. Driving-check for horses.....	322,687	July 21	1640	434	32	314
Metcalf, Erastus L., Franklin, Mass. Driving-check for horses.....	323,948	Aug. 11	731	204	32	668
Metcalf, George A. (See Hicks and Metcalf.)						
Metcalf, John S., Burlington, Iowa. Grain-shoveling mechanism.....	319,988	June 16	1399	368	31	1319
Metcalf, Tracy M., St. Paul, Minn. Ticket-holder.....	324,869	Aug. 25	2008	551	32	919
Metcalfe, Charles W., Hopkinsville, Ky. Saw-mill set-works.....	324,576	Aug. 18	1588	438	32	834
Metherell, Thomas. (See Metherell and Keiser, assignors.)						
Metherell, William H., and A. Keiser, said Keiser assignor to T. Metherell, West Brigh- ton, N. Y. Shifting thill for sleighs.....	323,221	Aug. 4	563	160	32	629
Metropolitan Manufacturing Company. (See Bailey, Alfred M., assignor.)						
Mettam, Charles, Bayonne, N. J. Fire-proof partition and ceiling.....	312,284	Feb. 17	1138	312	30	575
Mettler, James I., assignor of one-half to W. McBride, Creston, Ill. Grindstone apparatus.....	313,777	Mar. 17	1151	300	30	1007
Mettler, John J., Cleveland, Ohio. Reclining-chair.....	327,298	Sept. 29	2807	731	32	1556
Metz, John W., Manchester, Ohio. Safety-brake for elevators.....	324,144	Aug. 11	995	274	32	715
Metzdorff, Luis, Concepcion, Chilli. Transposer for key-board musical instruments.....	317,661	May 12	962	254	31	710
Metzger, Amandus, New York, N. Y. Electro-medical apparatus.....	329,929	Nov. 10	683	175	33	640
Metzger, Henry, et al. (See Hess, Godfrey, assignor.)						
Metzger, Hermann, North Springfield, Mo. Vent.....	319,007	June 2	94	25	31	1065
Metzger, Hermann, North Springfield, Mo. Apparatus for drawing beer.....	331,424	Dec. 1	247	66	33	1042
Metzger, Martin L., and A. Cooper, Harrisburg, Pa. Variable frictional power-transmitter.....	313,631	Mar. 10	1079	280	30	986
Metzger, Martin L., and A. Cooper, assignors to W. O. Hickok, Harrisburg, Pa. Ruling- machine.....	316,990	May 5	78	21, 22	31	537
Metzger, Martin L., and A. Cooper, assignors to W. O. Hickok, Harrisburg, Pa. Clutch.....	331,524	Dec. 1	379	102	33	1067
Meurer, Otto H., and G. N. Klein, Philadelphia, Pa. Wardrobe-trunk.....	325,555	Sept. 1	457	114	32	1103
Meusebach, Otto C., Marion, Tex. Car-coupling.....	325,251	Sept. 8	851	214	32	1179
Meuze, Friedrich W., assignor to himself and C. Hahn, Bay City, Mich. Automatic draw- bridge gate.....	316,635	Apr. 28	2268	597	31	430
Meyer, Benjamin P., Camden, N. J., assignor to M. A. and C. A. Furbush, Philadelphia, Pa. Mechanical movement.....	330,255	Nov. 10	1109	294	33	725
Meyer, Cord, Jr., Maspeh, N. Y. Machine for cleaning and washing bones.....	313,751	Mar. 10	973	251	30	966
Meyer, Cord, Jr., Maspeh, N. Y. Apparatus for the manufacture of ammonium sulphate.....	316,381	Apr. 21	1827	508	31	361
Meyer, Curt W., New York, N. Y. Electric laryngoscope.....	330,130	Nov. 10	973	253	33	698
Meyer, Edward W. A., Boston, Mass. Glove or shoe fastening.....	815,811	Apr. 14	1157	303	31	917
Meyer, George H., Santa Rosa, Cal. Corn-planter.....	311,351	Jan. 27	1605	439	30	315
Meyer, Gustave J. (See Moore, David B., assignor.)						
Meyer, Henry, et al. (See Kittler, Julius W., assignor.)						
Meyer, Henry K. (See Liebmann, Hermann F. W., assignor.)						
Meyer, Norman H., Denver, Colo. Cut-off and reversing gear.....	311,775	Feb. 3	409	111	30	425
Meyer, Jacob, Pittsburg, and H. Bier, Allegheny, Pa. Wagon-brake.....	317,631	May 12	1213	321	31	753
Meyer, John, Pittsburg, Pa. Tree for shoe-uppers.....	317,500	May 12	851	219	31	686
Meyer, John, Covington, Ky. Beer-cooler.....	323,712	Aug. 4	439	123	32	603
Meyer, John, Covington, Ky. Automatic feeder and register for barrel-elevators.....	327,007	Sept. 29	2423	{ 633 634 }	32	1488
Meyer, John C., New York, N. Y. Coffin.....	326,315	Sept. 15	1476	384	32	1302
Meyer, Michael, Waukegan, Wis. Drawer.....	310,229	Jan. 6	185	51	30	36
Meyer, Paul J., Berlin, Germany. Manufacture of isatine and substituted isatine.....	310,604	Jan. 13	571	.....	30	116
Meyer, Philip, Falls City, assignor of two-thirds to J. Royer and P. G. Mason, Richardson County, Nebr. Draw-barrow.....	319,109	June 2	218	57	31	1088
Meyer, Simon C., Philadelphia, Pa. Machine for reducing bagasse to pulp to extract the saccharine matter therefrom.....	313,510	Mar. 10	652	{ 169 170 }	30	807
Meyer-Sniffon Company. (See Bunting, William, Jr., assignor.)						
Meyer-Sniffon Company. (See Sniffon, Samuel F., assignor.)						
Meyrer, Henry. (See Gedge and Meyrer.)						
Meyering, Charles F., Rochester, N. Y. Key-board attachment for musical instruments.....	326,444	Sept. 15	1631	427	32	1331
Meyers, Adam H., Melmore, Ohio. Slate-dressing machine.....	327,211	Oct. 6	401	104	33	70
Meyers, Adelbert A., St. Louis, Mo. Fifth-wheel attachment.....	329,194	Oct. 27	2275	589	33	435
Meyers, Frank H., Philadelphia, Pa. Seal-lock for car-doors.....	317,403	May 5	639	163	31	639
Meyers, Frederick, Brooklyn, N. Y. Cabinet for papers of needles.....	324,717	Aug. 18	1789	494	32	877
Meyers, Frederick H., deceased, (M. Meyers administratrix,) Philadelphia, Pa. Emery and sand-paper machine for dressing leather.....	325,431	Sept. 1	290	71	32	1071
Meyers, John G., Washington, D. C. Mechanical movement.....	312,001	Feb. 10	735	201	30	492
Meyers, Louis, New York, N. Y. Button for gloves, &c.....	317,662	May 12	984	235	31	710
Meyers, Margaret, administratrix. (See Meyers, Frederick H.)						
Meyers, Otto. (See Overin and Meyers.)						
Meylor, Thomas, St. Louis, Mo. Grain-trier.....	323,057	July 28	2240	594	32	432
Meyrose, Ferdinand, St. Louis, Mo. Manufacturing tube-lanterns.....	320,381	June 16	1974	519	31	1422
Meyrose, Ferdinand, St. Louis, Mo. Lantern.....	326,136	Sept. 15	1217	311	32	1254
Meyrowitz, Emil B., Ridgely, N. J. Spectacles.....	329,474	Nov. 3	67	18	33	517
Michael, William S., and D. W. Geib, assignors of one-third to J. Hoover, Lancaster, Pa. Sash-balance.....	321,904	July 14	104	210	32	154
Michaels, Ernest R., Sycamore, Ohio. Fence.....	329,030	Nov. 10	685	175	33	640
Michaels, Ernest R., Sycamore, Ohio. Halter.....	332,271	Dec. 15	1511	395	33	1282
Michaels, Gustavus, assignor of one-half to W. T. Mayer, Albany, N. Y. Manufacture of chloroform and of purified acetates.....	322,194	July 14	1070	.....	32	203
Michaels, Moses, New York, N. Y. Spring-follower for cigar-boxes.....	311,597	Feb. 3	188	53	30	384
Michaels, Albert. (See Maddock and Michaels.)						
Michaels, Dennis, Hopedale, Ohio. Pitman-rod.....	310,707	Jan. 13	704	192	30	140
Michaels, Dennis, Hopedale, Ohio. Cutting apparatus for harvesters.....	321,837	July 7	593	153	32	109
Michaels, Oliver J., assignor of one-third to C. W. Provost, Pittsburg, Pa. Car-coupling.....	326,882	Sept. 22	2263	587	32	1450
Michelson, Lewis A., Dallas, Tex. Caster and insect-guard combined.....	313,225	Mar. 3	285	72	30	828
Michelson, Leandro C., Brooklyn, N. Y. Cigar-perforator.....	314,043	Mar. 17	1370	357	30	1049
Michelson, Sigismund M., Milwaukee, Wis. Combined trunk buffer and caster.....	313,096	Mar. 3	75	20	30	791
Michelson, Sigismund M., Milwaukee, Wis. Caster.....	316,382	Apr. 21	1028	509	31	361

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Michelson, Sigismund M., Milwaukee, Wis. Caster	392,308	July 14	1901	315	32	228
Michelson, Sigismund M., assignor of one-half to G. Sylvester, Milwaukee, Wis. Trunk-stay.	311,439	Jan. 27	1792	469	30	337
Michelson, Sigismund M., assignor of one-third to G. Sylvester, Milwaukee, Wis. Caster.	313,097	Mar. 3	76	90	30	791
Michelson, Sigismund M., assignor of one-third to G. Sylvester and A. Richter, Jr., Milwaukee, Wis. Caster. (Reissue)	10,627	July 21	2000	528	32	380
Michigan Lubricator Company. (See Parshall, Charles H., Jr., assignor.)						
Michigan Lubricator Company. (See Krantz, Friedrich W., assignor.)						
Michigan Lubricator Company. (See McNiece, Thomas B., assignor.)						
Michigan Stove Company. (See Gardner, Miles W., assignor.)						
Michigan Stove Company. (See Walker, Eugene R., assignor.)						
Michler, Gottlob. (See Acker and Michler.)						
Mickel, William, Oneonta, N. Y. Bench-vise	310,839	Jan. 13	865	234	30	169
Middleditch, Livingston. (See Lyman, Azel S., assignor.)						
Middleditch, Walter, Detroit, Mich. Lathe attachment.	332,817	Dec. 23	2969	598	32	1494
Middleton, Allen, Philadelphia, Pa. Car-coupling	325,953	Sept. 8	971	247	32	1202
Middleton, Arthur, Jr., Pelzer, S. C. Tension-regulator for the let-off motions of looms	327,187	Sept. 29	2672	694	32	1531
Middleton, William R., assignor of one-half to H. Tuttle, Cleveland, Ohio. Pipe-coupling	310,300	Jan. 6	186	51	30	36
Midgley, John, assignor of three-fourths to W. F. and F. C. Saylor and W. Hall, Pawtucket, R. I. Wool-combing machine	329,195	Oct. 27	2276	589	33	435
Midgley, John, and W. Hall, assignors of one-half to W. F. and F. C. Saylor, Pawtucket, R. I. Stop-motion for wool-combing machines	319,969	June 16	1401	368	31	1319
Midgley, Thomas, assignor of one-half to C. G. Washburn, Worcester, Mass. Making wire	310,956	Jan. 20	1033	220	30	903
Midgley, William H., Pittsburgh, Pa. Laundry-starch	319,598	June 9	862	228	31	1216
Midwood, Henry, Providence, R. I. Carriage and wagon jack	327,096	Sept. 29	2550	664	32	1509
Miehle, Robert, Chicago, Ill. Mechanical movement	317,663	May 12	284	255 256 315 316 317	31 32	710 228
Miehle, Robert, Chicago, Ill. Printing-machine	322,309	July 14	1203	214	33	668
Miehle, Robert, Chicago, Ill. Device for giving positive motion to sliders of printing-presses	330,040	Nov. 10	834	214	33	668
Miehling, Charles, assignor to himself and C. Miehling, New York, N. Y. Sewing-machine attachment for placing and ejecting bobbins	310,954	Jan. 20	1030	279	30	903
Miehling, Charles and C., New York, N. Y. Sewing-machine attachment for placing and ejecting bobbins	310,955	Jan. 20	1031	279	30	203
Mihills, Frank N., East Beekmantown, assignor of one-half to F. J. Lengfeld, Chazy, N. Y. Combined lock hasp and hook	319,599	June 9	863	228	31	1216
Mike, Emanuel A. and M. C., Halstead, Kans. Stock-watering device	324,870	Aug. 25	2009	551	32	919
Mike, Marion C. (See Mike, Emanuel A. and M. C.)						
Milbank, Robert W., New York, N. Y. Pneumatic elevator for grain	310,905	Jan. 20	952	280	30	191
Milbourne, John P., and T. Humphreys, Manchester, county of Lancaster, England; said Humphreys assignor to said Milbourne. Basket and skip	332,407	Dec. 15	1696	445	33	1315
Milburn Gin and Machine Company. (See Crowson, William L., assignor.)						
Milburn, Henry, Jr., Talcott, W. Va. Churn-holding device	319,634	June 9	1178	311	31	1272
Milburn, Thomas, et al. (See Wohlfarth and Wakefield, assignors.) (Reissue.)						
Miles, A. S. (See Millner, Isaac B., assignor.)						
Miles Brothers & Co. (See Price, Loftus E., assignor.)						
Miles Brothers & Co. (See Vogel, Ernest, assignor.)						
Miles, Edwin. (See Barnard and Miles.)						
Miles, Frederick B., Philadelphia, Pa. Drilling-machine	331,075	Nov. 24	2174	590	33	942
Miles, John A., Charleston, S. C. Inhaler or respirator	316,636	Apr. 26	2269	597	31	430
Miles, Manoah, Russell, Kans. Adjustable seat	331,991	Dec. 8	1104	287	33	1205
Miles, Oren E., Davenport, Iowa. Mail-box	328,046	Oct. 13	700	124	33	134
Miles, Peter L., administrator. (See Rusef, Charles F.)						
Miles, Walter, Chilton, Wis. Vehicle running-gear	320,269	June 16	1766	469	31	1325
Miles, Warren S., Columbus, Ohio. Tag-fastener	328,856	Oct. 20	1766	461	33	338
Miles, William A., Copake Iron Works, N. Y. Stone and ore crusher	319,741	June 9	1040	275	31	1249
Miles, William A., Copake Iron Works, N. Y. Joint for metal tubes	325,556	Sept. 1	458	114	32	1103
Miles, William A., Copake Iron Works, N. Y. Separator for sizing ore, &c.	325,557	Sept. 1	459	114 115	32	1103
Milgate, George C., Folsom, Cal. Gate	313,226	Mar. 3	226	72	30	228
Milholland, William T., McKeesport, Pa. Metallic sole for boots or shoes	330,140	Nov. 10	974	253	33	698
Millar, James D., Milwaukee, Wis. Roller-mill	311,508	Feb. 3	63	19	30	361
Millard, Edward F., Marinette, Wis. Wood-grinder	320,574	June 23	2226	590	31	1476
Millard, George W. (See Clarke and Millard.)						
Millard, Martin S., assignor of two-thirds to W. H. H. Tainter, Kansas City, and G. H. King, Salisbury, Mo. Window	311,252	Jan. 27	1457	398 399	30	229
Millard, Martin S., Kansas City, and G. H. King, Salisbury, assignors of one-third to W. H. H. Tainter, Kansas City; said Millard assignor of his remaining right to M. Jordan, Hermann, Mo. Window	320,808	June 23	2522	668 669	31	1533
Millard, Orson, Flint, Mich. Apparatus for forcing air	312,371	Feb. 17	1222	345	30	526
Millea, Francis J. (See Williams and Millea.)						
Millea, John D., et al. (See Williams and Millea, assignors.)						
Millea, Thomas D., et al. (See Williams and Millea, assignors.)						
Millon, George H. (See Eddy, Millen, and Mousseau.)						
Miller, Aaron W., W. Bower, and A. W. Coleman, Newark, N. J. Apparatus for bleaching fruit	321,741	July 7	442	117	32	22
Miller, Abraham, Newark, assignor to Newark Machine Company, Columbus, Ohio. Straw-stacker	311,137	Jan. 20	1290	354 355	30	252
Miller, Abraham, Newark, assignor to Newark Machine Company, Columbus, Ohio. Seat for seed-drills	316,805	Apr. 28	2524	650	31	477
Miller, Abraham, Newark, assignor to Newark Machine Company, Columbus, Ohio. Seed-drill	316,806	Apr. 28	2526	660	31	477
Miller, Abraham, Newark, assignor to Newark Machine Company, Columbus, Ohio. Seed and fertilizing drill	316,807	Apr. 28	2527	660	31	477
Miller, Abraham, Newark, assignor to Newark Machine Company, Columbus, Ohio. Device for raising or lowering the boots or drills of seeding-machines	316,808	Apr. 28	2529	661	31	478
Miller, Abraham, assignor to Newark Machine Company, Newark, Ohio. Recleaner for grain and seed separators	322,465	July 21	1423	372	32	275
Miller, Abraham, assignor to Newark Machine Company, Newark, Ohio. Belt-tightener	323,558	Sept. 1	460	115	32	1104
Miller, Abraham, Newark, assignor to Newark Machine Company, Columbus, Ohio. Clover-huller	331,646	Dec. 1	606	150	33	1104
Miller, Abraham, and J. N. Kaller, assignors to Newark Machine Company, Newark, Ohio. Clover-huller	327,812	Oct. 6	402	105	33	71

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Miller, Abesalom N., Pottstown, Pa. Adjusting device for rolls	318,574	May 26	2214	592	31	954
Miller, Adam, London, England. Amalgamating apparatus	311,332	Jan. 27	1606	439	30	315
Miller, Adam, London, England. Amalgamating apparatus	311,353	Jan. 27	1607	439	30	316
Miller, Adam, London, England. Amalgamating apparatus	311,354	Jan. 27	1608	440	30	316
Miller, Adam, London, England. Amalgamating apparatus	311,355	Jan. 27	1609	440	30	316
Miller, Adam, London, England. Car-ventilator	325,003	Aug. 25	2190	599 600	32	951
Miller, Albert F., assignor, by means assignments, to Burr Bed Company, Chicago, Ill. Bedstead	321,742	July 7	443	117	32	82
Miller, Alfred S., Richland, Ind. Dumping-wagon	328,504	Oct. 20	1301	338	33	253
Miller, Andrew. (See Watson, George, assignor.)						
Miller, Andrew J., Meadville, assignor to himself and S. L. Moore, Milledgeville, Pa. Brick-machine	314,340	Mar. 24	1761	470	30	1130
Miller, Benjamin F., et al. (See Jacobs, Charles A., assignor.)						
Miller, Benjamin F. D., assignor to I. N. Kinney and W. P. Kinzer, Wooster, Ohio. Whip-socket	330,956	Nov. 10	1110	294	33	725
Miller, Bion H., Bay City, Mich. Saw-swaging machine	310,708	Jan. 13	705	192	30	140
Miller, Charles, Auburn, N. Y. Pool-rack	311,843	Feb. 3	490	134	30	441
Miller, Charles, Auburn, N. Y. Grain-binder	323,353	July 28	2664	710	32	507
Miller, Charles, Ingersoll, Ontario, Canada. Mixed paint	328,857	Oct. 9	1767		33	338
Miller, Charles C., Brooklyn, N. Y., assignor to E. and T. Fairbanks, St. Johnsbury, Vt. Testing-machine	313,607	Mar. 10	774	304	30	930
Miller, Charles H., Columbus, Ohio. Chain-pump barrel	320,672	June 23	2362	624	31	1502
Miller, Charles K., and G. H. Cleveland, Camden, Me. Shirt	317,533	May 12	1215	321	31	754
Miller, Charles L., et al. (See Kenna, Joseph W., assignor.)						
Miller, Charles P. (See Smith and Miller.)						
Miller, Charles R. (See Harrison, Jonathan W., assignor.)						
Miller, Chauncey D., Poughkeepsie, N. Y. Angle attachment for dental engines	319,110	June 2	218	57	31	1088
Miller & Co., E. (See Brewer, Roland L., assignor.)						
Miller & Co., Edward. (See Perkins, Russell B., assignor.)						
Miller, Cornelius F., Hamilton, Ohio. Roller-skate	321,443	July 7	38	11	32	10
Miller, Daniel J., Chicago, Ill. Traction-rope railway	325,004	Aug. 25	2191	600	32	951
Miller, Daniel J., New York, N. Y. Driving mechanism for cable railways	329,737	Nov. 3	448	113	33	589
Miller, Daniel J., New York, N. Y. Grip for cable railways	332,730	Dec. 24	2167	572	33	1404
Miller, Daniel J., New York, N. Y. Switching device for cable railways	331,932	Dec. 23	2428	643	33	1454
Miller, Daniel J., New York, N. Y. Cable railway	332,933	Dec. 23	2430	644	33	1455
Miller, Daniel J., New York, N. Y. Cable railway	332,934	Dec. 22	2431	644	33	1455
Miller, David L., Madison, N. J. Motor	315,051	Apr. 7	89	21	31	18
Miller, E. H. (See Burgess, Jordan H. and J., Jr., assignors.)						
Miller, Edmund B., Dandridge, Tenn. Fence and post lifter	311,138	Jan. 20	1291	355	30	252
Miller, Edward J., Farmersville, Pa. Snap-hook	327,006	Sept. 29	2426	634	32	1488
Miller, Eli A., Conneaut, and W. H. Brown, North Kingsville, Ohio. Pump	324,401	Aug. 18	1360	370	32	792
Miller, Eugene, et al. (See Graham, Eri, assignor.)						
Miller, Francis H., et al. (See McLain, Charles B., assignor.)						
Miller, Francis H., et al. (See McGee, Andrew J., assignor.)						
Miller, Frank L., assignor of one-half to G. Presbie, Indianapolis, Ind. Nut-lock	322,628	July 21	1642	434	31	314
Miller, Frederick J., Brooklyn, N. Y. Banjo	310,906	Jan. 20	954	280	30	191
Miller, Frederick W., Brooklyn, N. Y. Well-tube	311,024	Jan. 20	1125	307	30	222
Miller, Fredrick C., Newport, Ky. Cigar-mold	329,196	Oct. 27	2277	589 590	33	435
Miller, Fredrick C., Newport, Ky. Roller-skate	329,580	Nov. 3	215	56	33	546
Miller, Fredrick C., Newport, Ky. Roller-skate	329,581	Nov. 3	216	56	33	546
Miller, Fredrick C., Newport, Ky. Roller-skate	329,582	Nov. 3	216	56, 57	33	546
Miller, Fredrick C., Newport, Ky. Roller-skate	329,583	Nov. 3	217	57	33	546
Miller, Fredrick C., Newport, Ky. Roller-skate	329,584	Nov. 3	218	57	33	546
Miller, Fredrick W., Muskegon, Mich. Straw-cutter	332,972	Dec. 15	1511	395 396	33	1282
Miller, George, assignor to D. W. Ryan, Lake View, Ill. Machine for drying barrels	312,002	Feb. 10	736	901	30	492
Miller, George J., Lake View, assignor to D. W. Ryan, Chicago, Ill. Machine for crozing and howling barrels	326,234	Sept. 15	1355	350	32	1279
Miller, George W. (See Coes and Miller.)						
Miller, George W., Meriden, Conn. Key-ring	310,301	Jan. 6	187	52	30	36
Miller, George W., Meriden, Conn. Box	331,076	Nov. 24	2177	591	33	943
Miller, Gilbert C., Fort Wayne, Ind. Plow-fender	311,909	Feb. 10	603	165	30	468
Miller, Henry, Ann Arbor, Mich. Wire-twister	317,832	May 12	1214	321	31	753
Miller, Herbert C., St. Louis, Mo. Apparatus for vulcanizing rubber and for other purposes	332,408	Dec. 15	1700	445	33	1315
Miller, Herman, New York, N. Y. Closing kerosene and other cans	312,372	Feb. 17	1253	345	30	596
Miller, Horace M., Wabash, Ind. Roofing-seamer	325,108	Aug. 25	2316	638	32	977
Miller, Isaac J., assignor to H. J. Wigga, Nashville, Tenn. Box-fastener	318,781	May 26	2420	664	31	1003
Miller, Isaac J., Jr., Cincinnati, Ohio. Railway-rail joint	312,490	Feb. 17	1410	390	30	627
Miller, J. Harts. (See Cracraft, Richard, assignor.)						
Miller, Jacob, Canton, Ohio. Grain-binding harvester	313,878	Mar. 17	1151	300	30	1007
Miller, Jacob B., Sligo, Pa. Baling-press	326,579	Sept. 22	1799	472	32	1370
Miller, James, assignor to himself and E. E. Burt, Atwater, Minn. Harrow-tooth fastener	318,195	May 19	1684	454	31	852
Miller, James B. (See Wilkins and Miller.)						
Miller, James B. (See Zellers and Miller.)						
Miller, James C., Allegheny, Pa. Elevator for cash-carriers	329,475	Nov. 3	68	19	33	517
Miller, James M., Allentown, Pa. Thill-coupling	314,463	Mar. 24	1917	512	30	1160
Miller, James S., assignor to Stearns Manufacturing Company, Erie, Pa. Band-saw mill	327,574	Oct. 6	94	21	33	18
Miller, James S., Erie, Pa. and E. Lapham, Cadillac, Mich., assignors to Stearns Manufacturing Company, Erie, Pa. Saw-mill	332,161	Dec. 8	1362	353	33	1249
Miller, John C. S. (See Larson, Lars, assignor.)						
Miller, John H., Philadelphia, Pa. Apparatus for purifying water	331,151	Nov. 24	2291	620 621	33	962
Miller, John W. (See Walker, Thomas M., assignor.)						
Miller, Joseph A., Jr., Providence, R. I. Automatic sprinkler for extinguishing fires	329,585	Nov. 3	220	57, 58	33	547
Miller, Joseph B., Wilkes-Barre, Pa. Grate-bar	328,852	Sept. 8	822	214	32	1179
Miller, Joseph C., Chelsea, Mass. Draft-tube for soda-water	332,731	Dec. 22	2168	572	33	1404
Miller, Julian T., Branchville, Tex. Cotton-chopper	332,192	July 28	2435	645	32	467
Miller, Lebbeus A., Sewickley, Pa. Blower for stoves and fire-places	317,404	May 5	640	164	31	639
Miller, Lewis. (See Marshall, Thomas C., assignor.)						
Miller, Lewis. (See Shepard, Sylvander C., assignor.)						
Miller, Lewis, et al. (See Ellinwood, Augustus E., assignor.)						
Miller, Lewis, Akron, Ohio. Harvester-reel	315,649	Apr. 14	935	245	31	175
Miller, Lewis, Akron, Ohio. Grain-binding harvester	316,991	May 5	84	22	31	538

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Miller, Lewis, Akron, Ohio. Grain-binder	322,951	July 28	9092	556	32	404
Miller, Lewis, Akron, Ohio. Harvester-butter and apron belt or carrier	329,062	Oct. 27	2065	542	33	401
Miller, Lewis, Akron, Ohio. Grain-binding harvester	329,931	Nov. 10	685	175	33	640
Miller, Lewis, Akron, Ohio. Grain-binding harvester	329,933	Nov. 10	692	177	33	641
Miller, Lewis, Akron, Ohio. Grain-binding harvester	331,808	Dec. 8	830	212	33	1154
Miller, Lewis, and A. E. Ellinwood, Akron, Ohio. Grain-binding harvester	329,932	Nov. 10	690	176	33	641
Miller, Lewis, and A. E. Ellinwood, Akron, Ohio. Reel-support for harvesters	332,732	Dec. 22	2170	572	33	1405
Miller, Lewis M. (See Champlain and Winans, assignors.)						
Miller, Lyssander N. (See Coffey, Henry D., assignor.)						
Miller, Martin B., assignor to S. H. Miller, Martinsburg, Pa. Fruit-drier	320,883	June 23	2619	694	31	1552
Miller, Matthias, assignor of one-half to G. N. Davis, Grand Rapids, Mich. Coupling-bolt	331,425	Dec. 1	248	65	33	1042
Miller, Mimos, Knoxville, Iowa. Barrel truck and support	333,144	Dec. 29	2741	720	23	1514
Miller, Newton W., Marshall, Ind. Adjusting mechanism for harvesters	323,588	Aug. 4	266	78	32	571
Miller, Oliver A. (See Tyler, Abel D., Jr., assignor.)						
Miller, Otto. (See Miller, Rudolph and O.)						
Miller, Peter, Cleveland, Ohio. Shaking and dumping grate	318,013	May 19	1402	391	31	806
Miller, Philip, Norwich, Conn. Guide-track for saws	332,273	Dec. 15	1512	396	33	1283
Miller, Philip, Norwich, Conn. Hollow auger	332,274	Dec. 15	1514	397	33	1283
Miller, Richard, et al. (See Kanouse, John G., assignor.)						
Miller, Rudolph, Orange, N. J., and O. Miller, New York, N. Y. Awl for attaching buttons	312,491	Feb. 17	1418	391	30	627
Miller, Rudolph A. (See Hogan and Miller.)						
Miller, Samuel, Pittsburg, Pa. Horse hay-fork	314,044	Mar. 17	1371	357	30	1049
Miller, Samuel H., Sacramento, Cal. Hay-press	318,644	May 26	2296	613	31	970
Miller, Samuel J., Cambridge City, Ind. Fence	329,197	Oct. 27	2278	590	33	435
Miller, Samuel L., assignor to W. W. Vaughan and B. Norton, Washington, Mich. Fruit-drier	316,637	Apr. 28	2270	597	31	431
Miller, Sarah H. (See Miller, Martin B., assignor.)						
Miller, Silas E., Ainger, Ohio. Gate	317,405	May 5	641	164	31	640
Miller, Sylvanus E., Jersey City, N. J., assignor to W. Bell, New York, N. Y. Lighting-lamps	312,285	Feb. 17	1140	312	30	575
Miller, Sylvester J., Millersville, Ill. Portable stacking-frame	320,153	June 16	1621	431	31	1358
Miller, Todor T., Hico, Tex. Seeding-machine	322,952	July 28	2004	557	32	404
Miller, Todor T., Hico, Tex. Sulky-plow	322,953	July 28	2005	557	32	404
Miller, Thomas. (See Kanfild, Elias, assignor.)						
Miller, Thomas, et al. (See Unger, Charles, assignor.)						
Miller, Walker C., Wortham, Tex. Combination-tool	324,145	Aug. 11	996	274	32	716
Miller, William C., assignor of three-fourths to G. W. Maser and R. H. C. Dodd, Parsons, Kans. Car-axle box	330,607	Nov. 17	1575	422	33	221
Miller, William J., Aurora, Ill. Stencil-plate	329,476	Nov. 3	69	19	33	518
Miller, William K., Whitneyville, assignor to Woodruff, Miller & Co., Mount Carmel, Conn. Blank for wrought-metal ox-shoes	318,277	May 19	1799	481	31	871
Miller, William L. (See Mitchell, George R., assignor.)						
Miller, William R., Baltimore, Md. Telephone	312,492	Feb. 17	1419	391	30	627
Miller's Falls Company. (See Foraneder, Alfred, assignor.)						
Miller's Falls Company. (See Goodell, Albert D., assignor.)						
Miller, John W., Dolgeville, assignor to A. Dodge, New York, N. Y. Guide for endless aprons	311,844	Feb. 3	491	134	30	441
Milligan, Charles A., Boston, Mass., assignor to Excelsior Self Leveling Berth and Automatic Ladder Company, Portland, Me. Ship's berth	322,466	July 21	1423	372	32	275
Milligan, Elizabeth K., executrix. (See Milligan, James.)						
Milligan, James, deceased, Brooklyn, N. Y., (E. R. Milligan, executrix.) Plate-printing machinery	321,743	July 7	445	118	32	83
Milligan, John C., Brooklyn, and J. Chaumont, Woodhaven, assignors to Lalance & Groe-jean Manufacturing Company, New York, N. Y. Milk-can	311,440	Jan. 27	1723	469	30	337
Milligan, John C., Brooklyn, and J. Chaumont, Woodhaven, assignors to Lalance & Groe-jean Manufacturing Company, New York, N. Y. Coffee-mill	312,493	Feb. 17	1420	391	30	627
Milligan, John F., assignor of one-half to G. S. Foster, St. Louis, Mo. Automatic grain-scale	321,129	June 30	2257	783	31	1618
Milliken, Allen C. (See Cleveland, Erastus L., assignor.)						
Milliken, Allan C. (See Graham and Milliken.)						
Milliken, Frank C., San Francisco, Cal. Dumping-wagon	332,818	Dec. 22	2270	598	33	1424
Milliken, Frank J. (See Smith and Milliken.)						
Milliken, William H., San Francisco, Cal. Gripping device for rope railways	331,902	Dec. 8	972	252	33	1180
Milliron, Jacob, Jr., assignor of one-half to S. W. Steele, Nashville, Tenn. Hand-car	312,572	Feb. 17	1529	417	30	648
Millner, George W., Charlottetown, Prince Edward Island, Canada. Creaming-can	321,744	July 7	446	118	32	81
Millner, Isaac B., Washington, D. C. Combined lead-pencil tip and tape measure	310,240	Jan. 13	866	235	30	170
Millner, Isaac B., New York, N. Y. Assignor of one-half to A. S. Miles, Baltimore, Md. Automatic gas-valve	310,606	Jan. 13	573	158	30	116
Mills Buttonhole Attachment Company. (See Mills, Daniel, assignor.)						
Mills, Chauncey W., Rochester, N. Y. Lubricator	325,264	Sept. 1	43	13	32	1024
Mills, Daniel, Philadelphia, Pa. Button-hole sewing mechanism	313,359	Mar. 3	453	115	30	860
Mills, Daniel, Philadelphia, Pa., assignor to United States Automatic Buttonhole Sewing Machine Company, of New Jersey. Button hole sewing-machine	313,358	Mar. 3	451	115	30	860
Mills, Daniel, assignor to United States Automatic Buttonhole Sewing Machine Company, Philadelphia, Pa. Button-hole sewing-machine	313,438	Mar. 3	562	145	30	881
Mills, Daniel, Philadelphia, Pa., assignor to Mills Buttonhole Attachment Company, Camden, N. J. Button-hole-sewing mechanism	319,835	June 9	1179	311	31	1272
Mills, Daniel, Philadelphia, Pa., assignor to Mills Buttonhole Attachment Company, Camden, N. J. Button-hole clamp	319,836	June 9	1180	311	31	1272
Mills, Daniel, assignor to Philadelphia Machinery Company, Philadelphia, Pa. Portable milling-machine	325,559	Sept. 1	461	115	32	1104
Mills, E. Deloss, Clinton, N. Y. Hop-stripping machine	332,275	Dec. 15	1516	397	33	1283
Mills, Francis E., assignor of one-half to W. McMahon, Pittsburg, Pa. Monocycle	312,147	Feb. 10	938	235	30	530
Mills, George H. (See Campbell and Mills.)						
Mills, George H., Concord, N. H., assignor to H. F. Campbell, Boston, Mass. Planer-knife grinder	330,797	Nov. 17	1821	490	33	868

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Mills, George M., Philadelphia, Pa. Ice-cream freezer.....	314,863	Mar. 31	2483	{ 657 658 436 437 }	30	1290
Miner, James G., Cincinnati, Ohio. Balanced slide-valve	314,258	Mar. 24	1647	{ 436 437 }	30	1108
Miner, James G., assignor to J. A. Robinson, trustee, Cincinnati, Ohio. Boiler-cleaner and filter	314,257	Mar. 24	1645	436	30	1108
Mills, John E. (See Herhold and Mills.)						
Mills, Mortimer B., Chicago, Ill. Gate for railway-crossings	333,242	Dec. 29	2876	752	32	1538
Mills, Mortimer B., and W. Hanley, Chicago, Ill. Signal	323,949	Aug. 11	732	205	32	668
Mills, Thomas B. (See Kopf, John, assignor.)						
Mills, Thomas B. (See Levison, Chancellor G., assignor.)						
Millsbaugh, William, Middletown, N. Y. Hand chopping-knife	319,294	June 2	436	117	31	1130
Millsbaugh, William, Middletown, N. Y. Draw-shave	325,759	Sept. 8	733	183	32	1187
Milne Brothers. (See Milne, James, assignor.)						
Milne, James, assignor to Milne Brothers, Aberdeen, Scotland. Grain-drier	329,198	Oct. 27	2279	{ 590 591 }	33	435
Milne, James and J. J., Scotch Grove, Iowa. Device for coupling rope	330,722	Nov. 17	1723	465	33	851
Milne, John, Hamilton, Ontario, Canada. Sliding top for oil-stoves	331,316	Dec. 1	81	20	33	1013
Milne, Joseph J. (See Milne, James and J. J.)						
Milne, Margaret, Brooklyn, N. Y. Bouquet-fastening	325,853	Sept. 8	853	214	32	1179
Milona, Marcus T., et al. (See McMurtry, James S., assignor.)						
Milsted, William N., Brooklyn, N. Y. Gas cooking-stove. (Reissue)	10,577	Apr. 7	658	{ 169 170 }	31	117
Milsted, William N., Brooklyn, N. Y. Gas-meter	319,111	June 2	220	57	31	1028
Milwaukee Dust Collector Manufacturing Company. (See Beardslee, Marcus D., assignor.)						
Milwaukee Dust Collector Manufacturing Company. (See Richardson, William, assignor.)						
Minch, George, Stamford, Conn. Belt-coupling	333,422	Dec. 29	3117	814	33	1520
Minck, Friedrich W., Vienna, Austria-Hungary. Apparatus for indicating the flexure of car-springs	324,949	Aug. 25	2110	577	32	939
Minea, Peter, St. Paul, Minn. Vise	321,995	July 14	805	210	32	155
Miner, Constantine, Rochester, Ind. Draft-equalizer	319,600	June 9	864	229	31	1216
Miner, Ephraim. (See Walker and Miner.)						
Miner, Martin W., New York, N. Y. Toe protector or separator	317,834	May 12	1215	321	31	754
Miner, Oliver S., North Adams, Mass. Wagon-seat	328,505	Oct. 20	1302	338	33	253
Miner, Renben F., Clam Falls, Wis. Belt-conveyer	324,402	Aug. 18	1361	370	32	792
Miner, Willard M., Thurlow, Pa. Telegraphic repeater	331,250	Nov. 24	2438	659	33	988
Miner, Winfield S., Turney, Mo. Car-coupling	314,045	Mar. 17	1372	358	30	1049
Minglo, George W., assignor of two-thirds to E. W. Wilkins and W. T. Brown, Philadelphia, Pa. Lightning-arrester for line-wires	323,222	Aug. 4	564	180	32	629
Mingua, William J., Augusta, Ky. Lamp shade and ornament	328,047	Oct. 13	702	184	33	134
Minior, Fred, St. Joseph, Mich. Furnace-grate	330,608	Nov. 17	1576	492	33	821
Mink, Fritz, Philadelphia, Pa. Commode	333,321	Dec. 29	2937	722	33	1550
Minneapolis Harvester Works. (See Appleby, John F., assignor.)						
Minneapolis Harvester Works. (See Kennedy, Samuel V., assignor.)						
Minneapolis Harvester Works. (See Strunk, Daniel, assignor.)						
Minnesota Brush Electric Company. (See Leonard, Samuel S., assignor.)						
Minnesota Brush Electric Company. (See Travis, Charles L., assignor.)						
Minnitt, John E., and J. H. Vickers, Nottingham, England. Automatic tap for bung-holes	317,561	May 12	852	219	31	686
Minor, George G., Cincinnati, Ohio, and J. D. Sullivan, Covington, Ky. Feed-water heater	326,580	Sept. 22	1802	473	32	1371
Minor, Nichols & Co. (See Hohenstein, Archie G., assignor.)						
Mitchall, Delosa W. (See Collins, Major, assignor.)						
Minthorn, Daniel, assignor to M. N. Minthorn, Watertown, N. Y. Treating vegetable fiber for manufacture of paper-pulp	319,295	June 2	437		31	1131
Minthorn, M. N. (See Minthorn, Daniel, assignor.)						
Mintie, William C., Liberty, Ill. Nut-lock	329,063	Oct. 27	2086	542	33	401
Miragoli, Ettore S., St. Louis, Mo. Fresco-work	311,509	Feb. 3	67	20	30	381
Miscner, Richard O., Waco, Tex. Can-opener	323,193	July 28	2435	645	32	467
Miskimen, George W., Newcomerstown, Ohio. Seeding-machine	312,148	Feb. 10	939	255	30	530
Miskimen, George W., Newcomerstown, Ohio. Seeding-machine	322,841	July 21	1930	510	32	367
Mitchell, Adolph L., Brooklyn, N. Y. Nut-lock	320,270	June 16	1768	469	31	1385
Mitchell, Albion L. F., Lynn, Mass., assignor to Mitchell Heel and Edge Burnishing Company, Kittery, Me. Jack for boots or shoes	310,532	Jan. 6	470	129	30	91
Mitchell, Albion L. F., Lynn, Mass., assignor to Mitchell Heel and Edge Burnishing Company, Kittery, Me. Heel-burnishing machine	312,573	Feb. 17	1530	418	30	648
Mitchell, Alexander. (See Strong and Mitchell.)						
Mitchell, Archibald, New Orleans, La. Roller-roughing machine	317,167	May 5	325	81	31	582
Mitchell, Barnard W., assignor of two-thirds to W. Trick, Hubbard, and A. Young, Youngstown, Ohio. Automatic feeder and regulator for lamps	317,835	May 12	1216	322	31	754
Mitchell, Benjamin B., Buffalo, N. Y. Bed-bottom	328,241	Oct. 13	951	247	33	181
Mitchell, E. R., et al. (See Gilmer, Joseph, assignor.)						
Mitchell, Edgar V. and J. V., Martinsville, Ind. Corn planter and drill	329,666	Nov. 3	322	83	33	565
Mitchell, Edward P. (See Tallaferro and Mitchell.)						
Mitchell, Edwin V., and M. G. Plimpton, Medfield, Mass., assignors to Wilcox & Gibbs Sewing Machine Company, New York, N. Y. Straw-hat-sewing machine	317,836	May 12	1217	322	31	754
Mitchell, Frank S., assignor to T. J., E., and W. L. Martin, Philadelphia, Pa. Waterproofing fabric	327,813	Oct. 6	404		33	71
Mitchell, George E., Brooklyn, N. Y. Fastening for neckties	320,491	June 23	2122	559	31	1457
Mitchell, George R., assignor of one-third to W. L. Miller, Chillicothe, Ohio. Device for transmitting power	326,914	Sept. 22	2301	602	32	1458
Mitchell Heel and Edge Burnishing Company. (See Mitchell, Albion L. F., assignor.)						
Mitchell, Henry, Racine, Wis. Wagon-reach coupling	329,242	Oct. 13	952	248	33	181
Mitchell, James H. and W. T., Wellington, Kans. Adjustable shade for windows	329,758	Nov. 3	449	113	33	589
Mitchell, James L., Kenton, Ohio. Rotary engine	314,369	Mar. 24	1827	486	30	1143
Mitchell, James V. (See Mitchell, Edgar V. and J. V.)						
Mitchell, John. (See Cook and Mitchell.)						
Mitchell, John B., assignor of three-fourths to A. H. Sawyer and J. S. Morris, Portland, Me. Ready light or taper	323,058	July 28	2250	595	32	432
Mitchell, John E., Keokuk, Iowa. Washing-machine	315,812	Apr. 14	1158	{ 303 304 }	31	217
Mitchell, John E., Fowler, assignor of one-half to A. D. Raub, Earl Park, Ind. Attachment for cultivators	312,574	Feb. 17	1532	418	30	649
Mitchell, John H. (See Matzinger, John, assignor.)						
Mitchell, John M., Waterbury, assignor of one-half to G. W. Jopson, Meriden, Conn. Policeman's nippers	327,575	Oct. 6	95	21	33	18

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Mitchell, John S., Milford, Conn. Hame.	324,950	Aug. 25	2112	577	32	939
Mitchell, John S., Milford, Conn. Die for manufacturing hames.	324,951	Aug. 25	2113	578	32	939
Mitchell, John W., Bayonne, N. J. Manufacturing gas for illuminating and heating purposes.	317,406	May 5	642	164	31	640
Mitchell, John W., Bayonne, N. J. Apparatus for generating illuminating and heating gas.	317,407	May 5	644	164	31	640
Mitchell, John W., Bayonne, N. J. Manufacturing illuminating-gas.	331,903	Dec. 8	974	252	33	1180
Mitchell & Lewis Company. (See Tecktonius, Emil C., assignor.)						
Mitchell, Lewis A., assignor to S. B. Ryder, Elizabeth, N. J. Wall and ceiling of buildings.	318,196	May 10	1695	454	31	852
Mitchell, Nelson C., Kansas City, Mo. Bee-hive.	314,972	Mar. 31	2636	698	30	1315
Mitchell, Nelson C., Kansas City, Mo. Bee-keeping.	314,973	Mar. 31	2638	698	30	1315
Mitchell, Noah, New York, N. Y. Hand-grenade fire-extinguisher.	324,577	Aug. 18	1590	438	32	834
Mitchell, Oliver F., assignor of one-half to W. H. Swinehart, Merrill, Wis. Billiard-cue.	310,456	Jan. 6	374	104	30	73
Mitchell, Oliver F., assignor of one-half to M. H. McCord, Merrill, Wis. Stove-leg attachment.	318,278	May 19	1800	481	31	872
Mitchell, Oliver F., assignor of one-half to W. H. Swinehart, Merrill, Wis. Table-leg.	321,007	July 7	662	177	32	124
Mitchell, Ransom Y., Bradford, Pa. Culin-conveyer.	326,445	Sept. 15	1632	427	32	1331
Mitchell, Ransom Y., Bradford, Pa. Transporting and sorting culm.	326,446	Sept. 15	1633	427	32	1331
Mitchell, Robert. (See Fletcher, Joseph E., assignor.)						
Mitchell, Robert, Atlanta, Ga. Wardrobe-bedstead.	326,316	Sept. 15	1476	384	32	1302
Mitchell, Robert A., and J. Von Thurn, Helena, Ohio. Farmer's weighing-scale.	314,509	Mar. 31	2109	562	30	1220
Mitchell, Samuel. (See Beebe, Oscar, assignor.)						
Mitchell, Tobias P., Haverhill, Mass. Boot or shoe.	322,467	July 21	1425	373	32	875
Mitchell, Thomas. (See French and Mattern, assignors.)						
Mitchell, William, Altoona, Pa. Steam-valve.	320,154	June 16	1621	431	31	1358
Mitchell, William, Altoona, Pa. Slide-valve.	321,992	Dec. 8	1105	287	33	1205
Mitchell, William T. (See Mitchell, James H. and W. T.)						
Mitrucker, Christian, Chicago, Ill. Shipping-case.	311,025	Jan. 20	1122	308	30	222
Mittendorf, John H. (See Mittendorf, William and J. H.)						
Mittendorf, William and J. H., Dayton, Ohio. Liquid-measure.	325,265	Sept. 1	45	13	32	1024
Mitts, Sylvanis S. (See Merrill, William, assignor.)						
Mix, Frank W. (See Spiegel, Henry L., assignor.)						
Mix, Frank W., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Mortise-lock.	320,155	June 16	1622	432	31	1358
Mix, Frank W., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Plate and socket for trunk-locks.	331,426	Dec. 1	249	65	33	1042
Mix, Frank W., and G. B. Cowles, assignors to Corbin Cabinet Lock Company, New Britain, Conn. Trunk-lock.	331,427	Dec. 1	249	66	33	1042
Mixer, Scott, Cincinnati, Ohio. Manufacture of artificial stone or marble.	322,317	Sept. 15	1478		32	1303
Mizner, Hiram, et al. (See Norton, Winthrop, assignor.)						
Moats, Andrew T., Pleasantville, Iowa. Miner's pick.	318,279	May 19	1801	482	31	872
Moberg, Peter V., Marinette, Wis. Siding-gage.	318,280	May 19	1802	482	31	872
Mock, John F., Eli, Ohio. Attachment for swinging gates.	324,871	Aug. 25	2011	552	32	919
Mock, Martin G., and W. S. Maywood, Muncie, Ind. Show-window ventilator.	331,077	Nov. 24	2178	591	33	943
Model Cuff Adjusting Company. (See Sourwine and Carpenter, assignors.)						
Modes, William F., Streator, Ill. Regenerating and reverberating glass-furnace.	320,951	June 30	2715	720	31	1575
Mordrell, J. H., et al. (See Johns, Frank L., assignor.)						
Moe, Seth B., assignor to American Brick Kiln Company, Chattanooga, Tenn. Brick-kiln.	316,904	Apr. 28	2676	697	31	505
Moebius, Bernard, Chihuahua, Mexico. Separation of metals.	310,302	Jan. 6	188		30	36
Moeb us, Bernard, Chihuahua, Mexico, assignor of three-eighths to W. E. Pope, Athens, Ga. Apparatus for the electrolytical separation and deposition of metals.	310,533	Jan. 6	472	129 131 132 133	30	91
Moeba, George, Detroit, Mich. Cigar-bunching machine. (Reissue)	10,622	July 28	2708	721	32	516
Moeller, Christoph F., and J. W. Manger, Newark, N. J. Torch.	315,317	Apr. 7	460	116	31	84
Moeller, Friedrich J., East Saginaw, Mich. Laundry-stove.	327,706	Oct. 6	270	68	33	48
Moeller, Henry F., Davenport, Iowa. Box-fastener.	311,910	Feb. 10	604	166	30	468
Moeller, Jacob, Manitowoc, assignor of one-half to E. Sonderrmann, Manitowoc County, Wis. Table.	324,718	Aug. 18	1790	494	32	871
Moen, Edward F., et al. (See Hall, Hiram S., assignor.)						
Moënoz, Paul, Passaic, N. J. Bristle-bunching tool.	324,403	Aug. 18	1362	370	32	792
Moerer, Henry, Allegheny, Pa. Preventing leakage from gas-conducting mains.	310,841	Jan. 13	867	235	30	170
Moerer, Henry, Pittsburg, Pa. Preventing leakage of gas from mains.	317,408	May 5	647	165	31	641
Moffatt, Richard R., assignor to Brooklyn Electric Construction Company, Brooklyn, N. Y. Regulator for dynamo or magneto electric machines.	323,050	July 28	2250	595	32	432
Moffet, Elliott R., Joplin, Mo. Apparatus for smelting and calcining lead and other ores.	329,199	Oct. 27	2282	591	33	436
Moffet, John, New York, N. Y. Rotary engine.	315,318	Apr. 7	461	117	31	84
Moffitt, Jerrey, Southbridge, Mass. Micrometer-gage.	319,919	June 9	1293	341	31	1202
Moffitt, John R., Chinese Camp, Cal. Apparatus for mining the beds of rivers and streams.	327,707	Oct. 6	271	69	33	48
Moffitt, John R., Chinese Camp, Cal. Wet-ore concentrator.	327,708	Oct. 6	274	70	33	48
Moffitt, John R., Chinese Camp, Cal. Retort and crucible furnace.	327,709	Oct. 6	275	70	33	48
Moffitt, John R., Chinese Camp, Cal. Heel-stiffener machine.	327,710	Oct. 6	277	71	33	49
Moffitt, Ruth, Wheatland, Ill. Carpet-stretcher.	328,506	Oct. 20	1303	339	33	254
Mohawk Valley Scotch Cap Factory. (See Hanford and McLoughlin, assignors.)						
Mohawk Valley Scotch Cap Factory. (See Wainman, Alfred J., assignor.)						
Mohler, George E. (See Gorgas and Mohler.)						
Mohn, Fredrick, Detroit, Mich. Attachment for pneumatic beer-pumps.	316,163	Apr. 21	1645	430	31	312
Mohney, James E., Eight Mile, Mo. Sully-plow.	315,813	Apr. 14	1180	304	31	917
Mohrstadt, Gustavo W., Birmingham, England. Fastener.	327,009	Sept. 29	2427	634	32	1469
Moise, Lionel H., San Francisco, Cal. Fruit and vegetable preserving apparatus.	325,954	Sept. 8	973	247	32	1203
Moisson, Anatole T., Verneuil, France. Bobbin-winding attachment for sewing-machines.	311,598	Feb. 3	188	54	30	384
Mole, John G., Batavia, Ill. Metallic grinding-ring.	321,045	June 30	2843	756	31	1566
Moles, Charles E., assignor of one-half to W. M. Johnston, Willmot, Ohio. Fodder-binder.	329,619	Dec. 15	1998	594	33	1367
Molesworth, William, Brooklyn, N. Y. Syringe.	319,296	June 2	438	117	31	1131
Moline Plow Company. (See Lindgren, August, assignor.)						
Moline Plow Company. (See Sowers, Oliver P., assignor.)						
Molihak, Franz. (See St. Mielcarek, Wladislaus, assignor.)						
Molloy, James F., West Haven, Conn. Lever-buckle.	317,168	May 5	326	81	31	522
Molynaux, Robert, Ransomville, N. Y. Fire-escape.	319,920	June 9	1294	342	31	1292

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Monaghan, William F., <i>et al.</i> (See McKendrick, John, assignor.)						
Monarch, Martin V., Owensborough, Ky. Still	325,955	Sept. 8	974	248	32	1203
Mond, Ludwig, Winnington Hall, county of Chester, England. Gas-generator	311,441	Jan. 27	1724	469 470	30	337
Monday, Robert O., assignor of one-half to G. T. Atkins, Dallas, Tex. Cloth-cutting apparatus	324,404	Aug. 18	1365	371	32	703
Monell, Ira F., Sugar Loaf, Colo. Ore separator and concentrator	333,322	Dec. 29	2968	722 723	33	1559
Moncymment, Matthew, Philadelphia, Pa. Awning for windows	311,510	Feb. 3	68	90	30	362
Monfort, Edgar A., assignor, by mesne assignments, to Universal Electric Arms and Ammunition Company, New York, N. Y. Cartridge for electric fire-arms	317,469	May 5	648	166	31	641
Monger, Francis M., assignor to himself, C. A. Sample, Cleveland, and J. R. Rolland, Charlottesville, Ind. Flood-gate	314,885	Mar. 31	2487	650	30	1291
Monitor Works. (See Davy, Windsor S., assignor.)						
Monj an, Cleophas, Middletown, Ohio. Balcony and fire-escape combined	313,511	Mar. 10	653	170	30	907
Monk, Henry, Lewiston, Maine. Elevated railway	322,954	July 28	2096	557 558	32	405
Monk, Henry, Lewiston, Me. Locomotive-furnace	328,048	Oct. 13	703	185	33	134
Monnett, Orwin B., Bucyrus, Ohio. Sheep-dip	319,990	June 16	1403		31	1319
Monroe, Daniel L., Drakeville, Iowa. Hog and cattle separating device	320,412	Nov. 17	1334	356	33	775
Monroe, Halsey H., Thomaston, Me. Seeder	312,149	Feb. 10	940	256	30	530
Monroe, Halsey H., Thomaston, Me. Rotary harrow	312,150	Feb. 10	941	256	30	531
Monroe, James J., Ridgeway, Ohio. Log-carrying attachment for wagons	318,281	May 19	1803	462	31	872
Monroe, Lorenzo D., and G. W. Wiggins, Morgan, Ga. Cultivator	330,341	Nov. 10	1220	336	33	747
Monroe, Lorenzo D., and G. W. Wiggins, Morgan, Ga. Combined cotton-seed planter and fertilizer-distributor	330,342	Nov. 10	1221	337	33	747
Monroe, William L., Omaha, Nebr. Churn-dasher	326,318	Sept. 15	1479	385	32	1303
Monranto, Mauricio M., assignor to W. A. O. Hegeman, New York, N. Y. Apparatus for filtering liquids	331,725	Dec. 1	794	181	33	1125
Monson, Charles, New Haven, Conn. Air-compressor	328,578	Oct. 20	1433	373	33	276
Montague, Charles C., Augusta, Ark. Automatic registering-stamp	319,008	June 2	95	25	31	1065
Montague, J. B., <i>et al.</i> (See Harris, James G., assignor.)						
Montague, John B., <i>et al.</i> (See Malone, Alexander and B. A., assignors.)						
Montague, John B., <i>et al.</i> (See Suell, Augustus E., assignor.)						
Montague, Patrick H., assignor of one-fourth to T. F. McDermott, St. Louis, Mo. Fire-escape	328,331	Oct. 13	1066	277	33	202
Montague, Patrick H., assignor of one-fourth to T. F. McDermott, St. Louis, Mo. Fire-escape	331,428	Dec. 1	250	66	33	1042
Montague, Patrick H., assignor of one-fourth to T. F. McDermott, St. Louis, Mo. Fire-escape	331,429	Dec. 1	251	66	33	1042
Montague, W. W. (See Richter, John L., assignor.)						
Montant, Alphonse, New York, N. Y. Automatic supporting device	315,650	Apr. 14	936	245	31	175
Monteiro, Garcia, assignor to himself and E. A. Chase, New Bedford, Mass. Calendar cuff-button	325,005	Aug. 25	2192	600	32	952
Montenegro, Antonio, Madrid, Spain. Surface-drainage with special reference to the prevention of floods	319,297	June 2	439	118	31	1131
Montenegro, Antonio, Madrid, Spain. Signaling apparatus	350,723	Nov. 17	1724	465	33	851
Montgillon, Louis, Elk Ridge, Md. Power-accumulator for vehicles	310,907	Jan. 20	955	260	30	191
Montgomery, Alpheus W., New York, N. Y. Manufacturing tarred ropes and yarns	312,286	Feb. 17	1142		30	576
Montgomery, Frank P., San José, Cal. Globe	313,752	Mar. 10	974	251	30	967
Montgomery, Frank P., San José, Cal. Map-rack	316,905	Apr. 28	2676	697	31	505
Montgomery, Frederick, Waterloo, N. Y. Removing fiber from cotton-seed	322,842	July 21	1831		32	367
Montgomery, James H., Elwin, Ill. Check-roller for corn-planters	320,673	June 23	2363	624	31	1502
Montgomery, James T., Deerfield, Va. Fence	327,814	Oct. 6	406	105	33	71
Montgomery, Samuel, West Toledo, Ohio. Mole-ditching, tile-forming, and wire-laying machine	330,724	Nov. 17	1725	445 466	33	851
Montgomery, Thomas J. (See Swan, Joseph W., assignor.)						
Montress, Samuel D., assignor to J. B. Florance, Paterson, N. J. Knob attachment	329,586	Nov. 3	221	58	33	547
Montross, Levi H., Simcoe, Ontario, Canada. Metallic roofing	319,921	June 9	1295	342	31	1293
Montross, Newman E. (See Serrell, Harold, assignor.)						
Montz, William H., Lehigh, Pa. Car-truck	322,741	July 21	1794	473 474	32	342
Mooch, Otto T. (See Seltzer and Mooch.)						
Moodie, Robert. (See Mumford and Moodie.)						
Moody, Charles D. (See Ebaugh, Charles S., assignor.)						
Moody, James S., Fillmore, Ill. Feeding-trough	313,227	Mar. 3	287	72	30	829
Moody, Jonathan C., Johnson's Station, Ind. Churn	322,742	July 21	1795	474	32	342
Moody, William C., Oakland, Cal. Fruit-jar	324,036	Aug. 11	847	236	32	680
Moers, Hazen, Milwaukee, Wis. Steam-radiator	319,601	June 9	865	222	31	1216
Moers, Henry, Toledo, Ohio. Car-coupling	323,950	Aug. 11	733	205	32	668
Mook, Daniel D., North Pembroke, N. Y. Grain-screen	312,744	Feb. 24	1755	462	30	699
Moore, Hermon, assignor of one-half to W. Mellor, Grove City, Pa. Rotary steam-engine	322,389	July 14	1317	343	32	250
Moore, Hiram E., Richmond, Ind. Blackboard	314,600	Mar. 31	2110	562	30	1220
Mooney, Charles. (See Law and Mooney.)						
Mooney, John, East Saginaw, Mich. Feeder for roller-mills	326,512	Sept. 15	1714	447	32	1347
Moore, Aaron B., assignor to Cooper Manufacturing Company, Mount Vernon, Ohio. Fastening for metal laths	313,228	Mar. 3	228	72	30	822
Moore, Aaron H., <i>et al.</i> (See Lovett, John, assignor.)						
Moore, Albert W., <i>et al.</i> (See Young, Harlan P., assignor.)						
Moore, Arms & Thompson. (See Johnson, Charles C., assignor.)						
Moore, Ben. (See Dudley, Andrew J., assignor.)						
Moore, Charles C., <i>et al.</i> (See Biven, Frederick, assignor.)						
Moore, Charles H., assignor of one-half to W. F. Washburn, Yonkers, N. Y. Water-closet drip-tray	331,993	Dec. 8	1106	287	33	1205
Moore, Charles T. (See Hart, Margaret, assignor.)						
Moore, David B., assignor to himself and G. J. Meyer, St. Louis, Mo. Pill-counter	316,638	Apr. 28	2271	597	31	431
Moore, David W., <i>et al.</i> (See Wilson, Allen F., assignor.)						
Moore, Edward B., West Chester, Pa. Button-hole-cutting attachment for sewing-machines	314,046	Mar. 17	1373	358	30	1050
Moore, Edward J., Baltimore, Md. Water tube-boiler	320,800	June 23	2525	609	31	1534
Moore, Edward Y., Evanston, Ill. Drive-chain link	316,992	May 5	85	23	31	538
Moore, Edward Y., Evanston, Ill. Sliding car-door. (Rollsue)	10,604	June 2	622	168	31	1167
Moore, Edward Y., Chicago, Ill. Sliding-door fixture	321,518	July 7	157	42	32	31

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Moore, Edward Y., Evanston, Ill. Drive-chain	328,050	Oct. 13	705	186	33	134
Moore, Edward Y., Evanston, Ill. Sheave or pulley-block	329,067	Nov. 3	323	83	33	566
Moore, Ela, Walla Walla, Wash. Ter. Combined wire-stretcher and staple-puller	321,130	June 30	2958	784	31	1618
Moore, Elizabeth M., West Kensington, London, England. Fastening for belts, bandages, &c.	324,719	Aug. 18	1791	494	32	871
Moore, Enos L., Portsmouth, Ohio. Reversing-valve	314,341	Mar. 24	1764	471	30	1131
Moore, Enos L., Portsmouth, Ohio. Oscillating steam-engine	320,575	June 23	2227	580	31	1477
Moore, Farnsworth G., Brooklyn, N. Y. Bustle	323,519	Aug. 4	180	52	32	555
Moore, Francis M., Worcester, Mo. Animal-muzzle	310,842	Jan. 13	870	235	30	170
Moore, Frank W. (See Heath and Moore.)						
Moore, George. (See Kelly, John P., assignor.)						
Moore, George H., Norwich, Conn. Filtering apparatus	329,064	Oct. 27	2087	542	33	401
Moore, George R., Philadelphia, Pa. Valve mechanism for water-closet cisterns	311,599	Feb. 3	190	54	30	384
Moore, George R., Jr., Philadelphia, Pa. Valve mechanism for water-closet cisterns	329,934	Nov. 10	694	178	33	641
Moore, George T. (See Cole, James W., assignor.)						
Moore, George W., Dunedin, Fla. Ladder and fruit-conveyer	329,668	Nov. 3	324	83	33	566
Moore, George W., North East, Pa., and J. N. Culbertson, Buffalo, N. Y., assignors to Consolidated Telephone Company, of New Jersey. Acoustic-telephone exchange	328,243	Oct. 13	953	248	33	181
Moore, Gideon E., New York, N. Y. Manufacture of hydrogen	314,342	Mar. 24	1766		30	1131
Moore, Gilpin, Rock Island, assignor to Deere & Company, Moline, Ill. Wheel-plow	313,947	Mar. 17	1255	327	30	1086
Moore, H. Philip. (See Moore, Thomas W., assignor.)						
Moore, Hollis W., Olean, N. Y. Vehicle-spring	314,702	Mar. 31	2941	596	30	1245
Moore, Ira W., assignor one-half to H. Solomon, New York, N. Y. Combined table and writing-desk	325,956	Sept. 8	975	248	32	1203
Moore, James M. (See Ford and Moore.)						
Moore, James P., Gardiner, Me. Bed	318,282	May 19	1803	482	31	873
Moore, Jesse B. (See Johnson and Moore.)						
Moore, Jonathan, Brooklyn, N. Y. Drinking-trough for animals	316,039	Apr. 28	2272	598	31	431
Moore, Jonathan, Brooklyn, N. Y. Drinking-trough for animals	321,626	July 7	293	78	32	56
Moore, Jonathan J., and J. A. Ball, assignors of one-half to J. C. Taylor, Thorntown, Ind. Belt-guard for straw-carriers	318,491	May 26	2064	503	31	933
Moore, Jonathan J., and J. A. Ball, assignors of one-half to J. C. Taylor, Thorntown, Ind. Belt-guide	320,810	June 23	2526	669	31	1534
Moore, Jonathan J., and J. A. Ball, assignors of one-half to J. C. Taylor, Thorntown, Ind. Folding-conveyer-trough for straw-stackers	324,477	Aug. 18	1462	400	32	809
Moore, Jonathan J., and J. A. Ball, assignors of one-half to J. C. Taylor, Thorntown, Ind. Base-pivot for straw-stackers	328,040	Oct. 13	704	185	33	134
Moore, Joseph, San Francisco, Cal. Mine-draining machinery	322,055	July 28	2097	558	32	405
Moore, Joseph, San Francisco, Cal. Governor for steam-engines	322,056	July 28	2099	559	32	405
Moore, Joseph, San Francisco, Cal. Hydraulic-ram elevator	322,957	July 28	2100	559	32	405
Moore, Lawrence C. (See Durham, John H., assignor.)						
Moore, Lee E., Boston, Mass. Boot or shoe	317,562	May 12	853	219	31	686
Moore, Lee E., Boston, Mass. Sole for boots or shoes	328,421	Oct. 13	1801	310	33	227
Moore, Matthew R., Indianapolis, Ind. Steam-engine governor	318,782	May 26	2481	664	31	1004
Moore, Matthew R., Indianapolis, Ind. Apparatus for making sand-molds	318,783	May 26	2486	665	31	1004
Moore, Matthew R., Indianapolis, Ind. Machine for making molds for castings	318,784	May 26	2488	665	31	1004
Moore, Matthew R., Indianapolis, Ind. Planging-machine	318,785	May 26	2491	665	31	1004
Moore, Matthew R., assignor to Pneumatic Company, Indianapolis, Ind. Machinery for making molds for castings. (Reissue.)	10,562	Feb. 24	2148	584	30	768
Moore, Matthew R., assignor to Pneumatic Company, Indianapolis, Ind. Machine for making molds for castings	331,208	Nov. 24	2371	642	33	978
Moore, Matthew R., assignor to Pneumatic Company, Indianapolis, Ind. Pattern-box for sand-molding machines	331,209	Nov. 24	2375	643	33	978
Moore, Melville M., Oxford, Miss. Curtain-cord holder	319,298	June 2	440	118	31	1131
Moore, N. Grier administrator. (See Stock, Charles F.)						
Moore, Oliver M., Carroll, assignor of one-half to C. A. McCune, Boone, Iowa. Adjustable foot-rest	330,343	Nov. 10	1922	327	33	747
Moore, Robert C., Holton, Kans. Filter	313,946	Mar. 17	1254	327	30	1026
Moore, Robert W. (See Townsend and Moore.)						
Moore, Samuel, Providence, R. I. Manufacture of drills	315,530	Apr. 14	779	205	31	145
Moore, Samuel, Providence, R. I. Machine for making twist-drills	331,904	Dec. 8	975	252	33	1161
Moore, Samuel, assignor of one-fourth to J. B. Richardson, Providence, R. I. Chuck	310,303	Jan. 6	191	58	30	37
Moore, Samuel J. (See Cooper, Thomas G., assignor.)						
Moore, Samuel M., Lukin, Ill. Animal poke	320,492	June 23	2122	559	31	1457
Moore, Seth L. (See Miller, Andrew J., assignor.)						
Moore, Silas, Cleveland, Ohio. Lathe for turning spirals	319,922	June 9	1296	342	31	1293
Moore, Stephen, trustee. (See Boynton, George O., assignor.)						
Moore, Stephen A., Springfield, Ill. Blow-off for steam-boilers	316,561	Apr. 28	2174	578	31	413
Moore, Thomas M., Rusak, Tex. Plow	332,206	Dec. 8	1420	365	33	1250
Moore, Thomas W., Plainfield, N. J., assignor to H. P. Moore, Pima county, Arizona Ter. Splint fabric for chairs and other articles	321,060	July 28	2252	595	32	432
Moore, V. Mumford, Chicago, Ill. Vice	326,137	Sept. 15	1218	311	32	1254
Moore, V. Mumford, Chicago, Ill. Vice	326,138	Sept. 15	1219	311	32	1254
Moore, W. Henry. (See Moore, William T., assignor.)						
Moore, Walter A., Charleston, S. C. Wagon-rack	313,753	Mar. 10	975	251	30	967
Moore, Walter K., Marinette, Wis. Dental plugger	327,587	Nov. 3	922	58	33	548
Moore, William A., assignor of one-half to J. C. Heath, Hampton, Va. Cell-tray	314,864	Mar. 31	2486	659	30	1220
Moore, William H., Gardiner, Me. Cot-bed	316,383	Apr. 21	1929	509	31	361
Moore, William T., Richview, assignor of one-half to W. H. Moore, Nashville, Ill. Animal-trap	326,513	Sept. 15	1715	447	32	1347
Moorman, George W. (See Moorman, Robert E. and G. W.)						
Moorman, Robert E., Chicago, Ill., and G. W. Moorman, Edinburg, Ind. Music-leaf turner	330,413	Nov. 17	1335	355	33	775
Moorman, Silas, Lafayette, Ala. Car-coupling	331,317	Dec. 1	89	90	33	1014
Moorman, Theresa S. (See Weinman, Christian J., assignor.)						
Moran, John D., New York, N. Y. Metallic barrel	326,669	Sept. 22	1996	507	32	1392
Moran, John H., Licking, Mo. Ash-leach	326,581	Sept. 22	1804	473	32	1371
Moran, Michael, St. Louis, Mo. Box-fastener	328,492	Oct. 13	1202	311	33	927
Moran, William, assignor to Erie City Iron Works, Erie, Pa. Portable tubular boiler	318,128	May 19	1610	430	31	836
Morlan & Company, S. (See Little, Charles E., assignor.)						
Morden, William J., Chicago, Ill. Railway-frog	332,733	Dec. 22	2171	573	33	1405
Morden, William J., Chicago, Ill. Railway-frog	332,734	Dec. 22	2173	574	33	1405

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Morley, William M., Putney, county of Surrey, England. Dynamo-electric machine.....	312,745	Feb. 24	1756	{ 483 484 }	{ 30 30 }	699
Morehead, John, Detroit, Mich. Steam-trap.....	327,691	Oct. 6	493	129	33	88
Morehead, John, Detroit, Mich. Steam-trap.....	327,892	Oct. 6	496	129	33	88
Morehouse, Charles L., Brooklyn, N. Y. Bottle-stopper.....	310,304	Jan. 6	192	52	30	37
Morehouse, Charles L., Brooklyn, N. Y. Bottle-stopper.....	314,703	Mar. 31	2243	596	30	1245
Morehouse, Charles L., Brooklyn, N. Y. Car-truck.....	320,156	June 16	1623	432	31	1359
Morehouse, Charles L., Brooklyn, N. Y. Breast-pad.....	326,915	Sept. 22	2302	602	32	1458
Morehouse, Charles L., Brooklyn, N. Y. Car-truck.....	331,994	Dec. 8	1107	288	33	1305
Morey, Charles W., et al. (See Longmore, Lewis F., assignor.)						
Morey, Parker F., Portland, Oreg. Hydraulic elevator.....	332,418	Dec. 15	1713	449	33	1317
Morfit, Clarence, New York, N. Y. Stationary wash-stand.....	323,437	Aug. 4	62	18	32	535
Morford, Abraham O., Port Chester, N. Y. Railway-spike.....	319,002	June 9	896	229	31	1217
Morgan Barbed Wire Company. (See Morgan, Thomas H., assignor.)						
Morgan, Benjamin B., Ann Arbor, Mich. Car-coupling.....	325,957	Sept. 8	976	248	32	1203
Morgan, Charles. (See Morgan, Edgar H. and C.)						
Morgan, Charles, Bridgewater, Nova Scotia, Canada. Carriage-seat.....	321,131	June 30	2959	784	31	1618
Morgan, Charles H., Buffalo, N. Y. Conveyor.....	319,299	June 2	441	118	31	1131
Morgan, Charles H., Buffalo, N. Y. Dust-collector.....	333,020	Dec. 22	2564	{ 674 675 }	{ 33 33 }	1478
Morgan, Charles H., Buffalo, N. Y. Dust-collector.....	333,021	Dec. 22	2567	675	33	1478
Morgan, Charles H., assignor to Washburn & Moen Manufacturing Company, Worcester, Mass. Wire-corrugating machine.....	333,323	Dec. 29	2990	783	33	1559
Morgan & Co., Dayton, S. (See Becker, Frederick G., assignor.)						
Morgan, Edgar H. and C., Freeport, Ill. Coffee-mill.....	333,343	Dec. 29	2978	752	33	1539
Morgan, Edgar H. and C., assignors to New Union Manufacturing Company, Freeport, Ill. Coffee-mill.....	329,065	Oct. 27	2090	543	33	401
Morgan, Edward H., assignor of one-half to M. E. Kuhn, Cincinnati, Ohio. Bottle-stopper.....	321,236	June 30	3080	920	31	1643
Morgan, Edward H., assignor of one-half to M. E. Kuhn, Cincinnati, Ohio. Cork-retainer.....	321,237	June 30	3080	921	31	1643
Morgan, Garrard S. and W. B., Peoria, Ill. Draft-wagon.....	315,531	Apr. 14	780	205	31	145
Morgan, J. Stewart. (See Stanley, Lucius T., assignor.)						
Morgan, James. (See Morgan, Samuel, assignor.)						
Morgan, James B., Davenport, Iowa. Sponge or mop holder.....	315,814	Apr. 14	1163	304	31	218
Morgan, James H. (See Morgan, Lyman and J. M.)						
Morgan, John H., Jr., Nauvau, assignor of one-half to J. H. Morgan, Sr., Yorkville, Ill. Device for operating hay-carriers.....	327,893	Oct. 6	497	129	33	89
Morgan, Lyman, Port Washington, Wis. Track-clearer.....	330,725	Nov. 17	1730	{ 466 467 }	{ 33 33 }	852
Morgan, Lyman and J. M., Port Washington, Wis. Cockle-separator.....	316,169	May 5	327	81	31	582
Morgan, Samuel, Baxterly, near Atherstone, assignor to J. Morgan, Bentley, county of Warwick, England. Clip for rope-haulage.....	318,492	May 26	2085	{ 563 564 }	{ 31 31 }	933
Morgan, Thomas H., assignor to Morgan Barbed Wire Company, (limited), Pittsburg, Pa. Machine for barbing metallic strips.....	323,713	Aug. 4	429	123	32	604
Morgan, Thomas J., Hyde Park, assignor of one-half to W. McCombie, Chicago, Ill. Door-latch.....	312,575	Feb. 17	1533	418	30	649
Morgan, Thomas J., Woodlawn Park, assignor of one-half to W. McCombie, Chicago, Ill. Knob attachment.....	326,048	Sept. 8	1094	279	32	1224
Morgan, Thomas R., Sr., Alliance, Ohio. Making long lengths of shafting.....	320,932	June 30	2716	{ 720 721 }	{ 31 31 }	1575
Morgan, William, Birmingham, county of Warwick, England. Machine-roller chain.....	329,407	Oct. 27	2592	668	33	492
Morgan, William B. (See Morgan, Garrard S. and W. B.)						
Morgan, William F., assignor of one-half to R. Hughes, Collingwood, Ontario, Canada. Bolt.....	317,170	May 5	328	32	31	583
Morger, Henry, Chicago, Ill. Convertible chair and bed.....	324,268	Aug. 11	1120	320	32	749
Morharl, Roman, Brooklyn, N. Y. Submarine excavator.....	317,664	May 12	987	256	31	710
Morharl, Roman, Brooklyn, N. Y. Dough-rolling machine.....	319,991	June 16	1403	360	31	1319
Mork, Charles G. (See Seaver and Mork.)						
Morlet, Charles, and E. Dupuis, New York, N. Y. Repeating-watch.....	325,854	Sept. 8	853	{ 214 215 }	{ 32 32 }	1179
Morley, E. Watson. (See Sprague, Oscar L., assignor.)						
Morley, John. (See Jennings and Morley.)						
Morley, Samuel, Stockton-on-Tees, county of Durham, assignor to Whitaker Brothers, Horsaforth, England. Brush.....	324,037	Aug. 11	848	236	32	689
Morningsstar, Andrew, assignor to J. A. Dredge, Springfield, Ohio. Nut-lock.....	322,244	Oct. 13	975	248	33	182
Morosa, Joseph A., Detroit, Mich. Scaffold-binder.....	326,514	Sept. 15	1716	447	32	1347
Morrall, John. (See Titus and Morrall.)						
Morrall, Samuel E. (See Titus and Morrall.)						
Morrell, David B., Philadelphia, Pa. Joint-packing band.....	332,735	Dec. 22	2174	{ 574 575 }	{ 33 33 }	1406
Morrell, Ephraim B. (See Williams and Morrell.)						
Morrell, Robert. (See Peck, Eugene H., assignor.)						
Morrell, Thomas T., Johnstown, Pa. Regenerative furnace.....	313,754	Mar. 10	976	252	30	967
Morrill, Alfred A., Burnt Woods, Oreg. Railway-signal.....	327,299	Sept. 20	2809	732	32	1556
Morrill, Amos, et al. (See Conant, Fred H., assignor.)						
Morrill, Amos, et al. (See Ellis, George A., assignor.)						
Morrill, Amos, et al. (See Ellis and Taft, assignors.)						
Morrill, Amos, et al. (See Watkins, Gardner A., assignor.)						
Morrill, Osgood, Salisbury, Mass. Carriage-body.....	324,333	Aug. 11	1269	344	32	767
Morris, Austin, et al. (See McGregor, Montague M., assignor.)						
Morris, Benjamin J., assignor of one-half to W. Stilwell, Millersburg, Ohio. Self-loading cart.....	317,467	May 5	731	185	31	655
Morris Company, I. P. (See Hutchinson, Arthur H., assignor.)						
Morris, Edward C., Boston, Mass. Combined coating and covering for sides of rooms, &c.....	331,152	Nov. 24	2292	621	33	963
Morris, Edward C., assignor to Morris & Ireland, Boston, Mass. Compound plaster and sheet-metal lining for partitions, &c.....	329,759	Nov. 3	451	114	33	590
Morris, Evan. (See Rohfuss, George, assignor.)						
Morris, Frank H. (See Brooks, Frederick W., assignor.)						
Morris, George W., Pittsburg, Pa., and W. Frech, Chicago, Ill. Combined spring-measurer and track-indicator.....	315,532	Apr. 14	782	{ 206 207 }	{ 31 31 }	145
Morris, Henry B., assignor to Autophone Company, Ithaca, N. Y. Machine for inserting pins in music-barrels.....	315,052	Apr. 7	91	22	31	19
Morris, Henry B., assignor to Autophone Company, Ithaca, N. Y. Barrel for mechanical musical instruments.....	322,390	July 14	1318	343	32	250

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Morris, Henry G. (See Immendorf, George H., assignor.)						
Morris & Ireland. (See Morris, Edward C., assignor.)						
Morris, James K., assignor of one-half to S. L. Edwards, Des Moines, Iowa. Dental plate	315,319	Apr. 7	463	117	31	84
Morris, John E., San Marcos, Tex. Planter	327,960	Oct. 6	587	153	33	106
Morris, John H. and T. D., Seward, Nebr. Water-elevator	320,157	June 10	1623	433	31	1359
Morris, John S., et al. (See Mitchell, John B., assignor.)						
Morris, John T., trustee. (See Strong, George S., assignor.)						
Morris, Marion A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Wick-adjuster	313,678	Mar. 10	865	225	30	948
Morris, Miles H., Chicago, Ill. Drive-well point	315,815	Apr. 14	1164	305	31	218
Morris, Robert H., assignor of one-half to N. Carlson, Janesville, Wis. Hay elevator and carrier	312,151	Feb. 10	944	257	30	531
Morris, Thomas D. (See Morris, John H. and T. D.)						
Morrissey, James F., assignor to Klinefelter & Dillman Company, Joliet, Ill. Hay elevator and carrier	329,935	Nov. 10	695	178	33	642
Morrison, Alexander H., and W. A. Preston, St. Joseph, Mich. Shipping-box	323,714	Aug. 4	431	123	32	604
Morrison, Andrew J., Buffalo, N. Y. Aerial railway and car	328,899	Oct. 20	1825	475	33	348
Morrison, Andrew J., West Troy, N. Y., assignor of one-half to J. N. Baxter. Rutland, Vt. Mail-bag	323,194	July 28	2437	645	32	467
Morrison, Benjamin P., Marion, Va. Spring-gear for vehicles	316,640	Apr. 23	2273	598	31	431
Morrison, Ebenezer, and J. P. Herron, Washington, D. C. Thickness-gage	310,908	Jan. 20	957	260	30	192
Morrison, Ebenezer, and J. P. Herron, Washington, D. C. Paper holder and cutter	329,200	Oct. 27	2283	591	33	436
Morrison, Gardner L., Brooklyn, assignor to W. H. Jackson, New York, N. Y. Fire-place heater	312,003	Feb. 10	737	202	30	492
Morrison, George G., Philadelphia, Pa. Combined drilling and boring machine	319,502	June 9	794	194	31	1191
Morrison, Hugh M., Glendale, Miss. Fruit-cutter	317,563	May 12	854	219	31	686
Morrison, James, Jr., New York, N. Y. Lath	311,666	Feb. 3	270	75	30	399
Morrison, Joseph B., Fort Madison, Iowa. Cultivator	323,355	Dec. 15	1630	427	33	1303
Morrison, Joshua H., Connersville, Ind. Dental-bracket case	325,500	Sept. 1	462	115	32	1104
Morrison, Michael. (See Floyd, John J., assignor.)						
Morrison, Prosper, Maquon, Ill. Automatic weighing-scale	311,198	Jan. 27	1382	378	30	275
Morrison, Robert T., Jr., Medina, Ohio. Car-coupling	323,195	July 28	2438	646	32	482
Morrison, William, Toronto, Ontario, Canada. Chemical fire-engine	313,755	Mar. 10	977	252	30	967
Morrow, Henry A., Philadelphia, Pa. Carpet-rag looper	314,704	Mar. 31	2243	597	30	1245
Morrow, Henry W., Wilmington, Del. Treatment of paper and other fibrous material for journal-bearings, belting, &c	322,629	July 21	1642	434	32	314
Morse, Alfred B., South Easton, Mass. Sewing-machine thread-unwinder	318,923	May 26	2671	708	31	1037
Morse, David R., et al. (See Beach, William W., assignor.)						
Morse, David R., et al. (See Solano, Renaldo, assignor.)						
Morse, E. Fleet, Ithaca, N. Y. Vehicle-spring	324,872	Aug. 25	2013	552	32	920
Morse, Edmund A. (See Shortleeve, David, assignor.)						
Morse, George, Gloucester, Mass. Hitching device for vehicles	315,816	Apr. 14	1166	305	31	219
Morse, George H., et al. (See Sabiu, Alvah H., assignor.)						
Morse, John B., Providence, R. I. Game	324,873	Aug. 25	2014	552	32	920
Morse, Leonard W., Jr., Mystic River, Conn. Paper-cutting machine	326,916	Sept. 22	2203	603	32	1458
Morse, Lewis, North Attleborough, Mass. Button	322,276	Dec. 15	1517	398	33	1284
Morse, Orville M., assignor to Knickerbocker Company, Jackson, Mich. Belt-gearing	326,670	Sept. 22	1927	507	32	1392
Morse, Reuben S., Vienna, N. Y. Holdback	321,838	July 7	594	154	32	109
Morse, Stephen A., Philadelphia, Pa. Dumb-waiter	311,253	Jan. 27	1460	399	30	229
Morse, Thomas G., Erie, Pa. Machine for tapping metal pipes and fittings	312,212	Feb. 10	1029	281	30	546
Morse Twist Drill and Machine Company. (See Buchter, Frank, assignor.)						
Morse Twist Drill and Machine Company. (See Stetson, George R., assignor.)						
Morse, Waldo G., Rochester, N. Y. Copying process	325,353	Sept. 1	160	43	32	1045
Morstatt, George W., New York, N. Y. Machine for inserting pins in blind-slats	314,464	Mar. 24	1917	512	30	1100
Morstatt, George W., New York, N. Y. Chair	317,468	May 5	734	185	31	655
Mortensen, Hans, Leadville, Colo. Pump	314,705	Mar. 31	2245	597	30	1245
Mortimer, Henry, et al. (See Maynard, William, assignor.)						
Mortimer, Stephen C., Fort Wayne, Ind. Washing-machine	329,760	Nov. 3	452	114	33	590
Mortimer, Stephen C., Fort Wayne, Ind. Device for converting motion	329,761	Nov. 3	454	114	33	590
Morton, Ephraim S. (See Loring and Morton.)						
Morton, Frederic C., Chelsea, Mass. Rotary engine	310,843	Jan. 13	871	235	30	170
Morton, Harden. (See Watkins, William, assignor.)						
Morton, Henry, assignor to Branford Lock Works, Branford, Conn. Keeper for knob-latches	333,022	Dec. 22	2570	676	33	1479
Morton, Horace J., Pullman, Ill. Lumber-drier	311,442	Jan. 27	1798	470	30	338
Morton, Horace J., Chicago, Ill. Swing-joint for steam	324,874	Aug. 25	2015	552	32	920
Morton, James, Le Roy, N. Y. Shoe	324,405	Aug. 18	1366	371	32	773
Morton, James, Norwich, Conn. Speed-governor	326,235	Sept. 15	1357	351	32	1279
Morton, James W., Orange C. H., Va. Nut-lock	323,715	Aug. 4	422	123	32	604
Morton, Matthew, Romeo, Mich. Key-seat and gear cutting machine	323,324	Dec. 20	2292	784	33	1580
Morton, Thomas, New York, N. Y. Sash-balance	315,533	Apr. 14	785	207	31	146
Morton, Thomas, New York, N. Y. Riveting-machine	315,817	Apr. 14	1167	305	31	219
Morton, Thomas M., Pittsburg, Pa. Steam radiator and heater	315,818	Apr. 14	1168	305	31	219
Morton, Walter S., St. Paul, Minn. Trench-building machine	315,534	Apr. 14	786	207	31	146
Morton, Walter S., St. Paul, Minn. Elevator-hatchway guard	317,564	May 12	855	220	31	687
Morton, Walter S., St. Paul, Minn. Automatic hatchway-guard	320,083	June 16	1524	404	31	1342
Morton, William A. (See Kious and Morton.)						
Morton, William A., Abilene, Kans. Lightning-arrester for wire fences	319,300	June 2	442	118	31	1131
Morton, William C., Coleshill, county of Warwick, England. Machinery for plowing, &c	324,578	Aug. 18	1592	439	32	835
Morton, William M., Minneapolis, Minn. Lock	331,153	Nov. 24	2293	621	33	963
Morwitz, Joseph, Philadelphia, Pa. Mechanical movement	315,431	Apr. 7	620	159	31	110
Morwitz, Joseph, Philadelphia, Pa. Mechanical movement	315,432	Apr. 7	621	159	31	111
Moschcowitz, Herman. (See Moschcowitz, Schamu M. and H.)						
Moschcowitz, Schamu M., New York, N. Y. Combined pattern and fabric	327,961	Oct. 6	588	153	33	106
Moschcowitz, Schamu M. and H., New York, N. Y. Stay for dresses, corsets, &c	323,716	Aug. 4	433	124	32	604
Moscopoules, Basilios K., New York, N. Y. Sponge-gathering net	314,047	Mar. 17	1374	359	30	1050
Moscopoules, Basilios K., New York, N. Y. Fishing-net	326,139	Sept. 15	1290	311	32	1254

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Moseley, Charles, and B. Blundstone, Manchester, county of Lancaster, England; said Blundstone assignor to said Moseley. Manufacture and application of india-rubber tires, hoops, and bands to wheels, &c.	322,391	July 14	1319	32	250
Moseley, Fredrick W., Poultney, Vt. Combined creamer and refrigerator.	330,845	Nov. 17	1882	509	33	879
Moser, Benjamin, Brooklyn, N. Y. Lock	313,098	Mar. 3	77	21	30	791
Moser, Benjamin, Brooklyn, N. Y. Lock	313,439	Mar. 3	563	145 146	30	881
Moser, Isaac S., and F. Magee, New York, N. Y. Mechanical and electric alarm-clock	317,837	May 12	1218	322	31	754
Moses, Albert P., Malone, N. Y. Fastener	320,953	June 30	2718	721	31	1575
Moses Bros. et al. (See Giffard, George W., assignor.)						
Moses, Clayton L., et al. (See Giffard and Roberts, assignors.)						
Moses, Edward W., et al. (See Giffard and Roberts, assignors.)						
Moses, Otto A., New York, N. Y. Apparatus for carbonizing incandescents	316,993	May 5	86	23	31	538
Moses, Otto A., New York, N. Y. Mold for making incandescents	321,309	June 30	3176	847	31	1060
Moses, Otto A., New York, N. Y. Holder for incandescent electric lights	322,744	July 21	1795	474	32	342
Moses, Otto A., New York, N. Y. Incandescent electric lamp	324,038	Aug. 11	849	237	32	689
Moses, Otto A., New York, N. Y. Manufacturing incandescent electric lamps	324,334	Aug. 11	1269	344 345	32	787
Moses, Otto A., New York, N. Y. Incandescent electric lamp	325,958	Sept. 8	977	249	32	1204
Moses, Otto A., New York, N. Y. Lead and crayon holder	325,959	Sept. 8	983	249	32	1204
Moses, Walter S., et al. (See Andrews, Oscar, assignor.)						
Moses, Walter S., and O. Andrews, assignors of one-half to said Moses, J. H. Andrews, Gloucester, and G. Tucker, Rockport, Mass. Machine for cutting blocks of fish into layers	317,469	May 5	735	185	31	656
Mosher, George A., and A. W. Ham, Troy, N. Y. Button-setting machine	323,717	Aug. 4	435	124	32	604
Mosher, Samuel E. (See Lewis and Mosher.)						
Mosher, Samuel E., and L. B. Lyons, Chillicothe, Ohio. Car-brake	328,963	Oct. 27	1935	504	33	374
Mosler, John L. H., Long Island City, N. Y., assignor to himself and A. S. Sherwood, East Orange, N. J. Thill-coupling	311,600	Feb. 3	191	54	30	384
Mosler Safe and Lock Company. (See Hemler, Michael, assignor.)						
Mosley, James S., and T. J. Mancill, Atlanta, Miss. Machine for filing gin-saws	328,423	Oct. 13	1903	311	33	228
Mosley, Woodson, Kingsland, Ark. Nail-tongs	322,195	July 14	1073	278	32	203
Moss, John, Brooklyn, N. Y. Cock for house-service and street-washer connections	315,652	Apr. 14	938	246	31	175
Moss, John L., and N. Littell, Rome, Ga. Extracting oil from formed oil-cake	313,440	Mar. 3	567	.....	30	882
Mossberg, Emil, Elfkärleå, Sweden. Saw-sharpening machine	329,936	Nov. 10	697	178 179	33	642
Mote, Alden, and J. B. Brewster, Oskaloosa, Iowa. Wagon-jack	312,746	Feb. 24	1759	484	30	699
Moth, Morris J., et al. (See Powers, Jay W., assignor.)						
Moth, Robert S., et al. (See Powers, Jay W., assignor.)						
Motherwell Iron and Steel Company. (See Motherwell, Robert B., assignor.)						
Motherwell, Robert B., assignor to Motherwell Iron and Steel Company, Logan, Ohio. Lubricator	331,809	Dec. 8	831	219	33	1154
Mott, Frank M., Greelev, Colo. Plow	311,511	Feb. 3	69	20	30	362
Mott, Horace, Carroll, Iowa. Churn	329,762	Nov. 3	455	114	33	590
Mott Iron Works, J. L. (See Burrows, Daniel, assignor.)						
Mott Iron Works, J. L. (See Carney, Peter, assignor.)						
Mott Iron Works, J. L. (See Demarest, John, assignor.)						
Mott Iron Works, J. L. (See Hurl, Alfred P., assignor.)						
Mott Iron Works, J. L. (See McFarland, Samuel G., assignor.)						
Mott Iron Works, J. L. (See Reid, John, assignor.)						
Mott, Jordan L., Jr., New York, N. Y. Bidet attachment for water-closets	312,373	Feb. 17	1254	345 346	30	596
Mott, Samuel D., New York, N. Y., assignor, by mesne assignments, to Schuyler Electric Light Company, of New York. Electric meter	333,079	Dec. 22	2639	692	33	1490
Mottram, William K., Ottawa, Kans. Lifting-jack, lever, wrench, and oil-holder combined	312,747	Feb. 24	1760	485	30	699
Mouck, Andrew B., Fargo, Dak. Terr., assignor of one-half to W. Deering, Chicago, Ill. Harvester	325,266	Sept. 1	46	14	32	1024
Mougey, Peter, Sterling, Ohio. Riding-harrow	325,760	Sept. 8	734	184	32	1158
Moulton, Charles H., Washington, D. C. Bill-file case	323,877	Aug. 4	635	179	32	643
Moulton, David, Malden, Mass. Elevated railway and car-truck for the same	312,004	Feb. 10	738	202	30	492
Moulton, George W., assignor to Textile Manufacturing Company, Westfield, Mass. Casket-plate	330,846	Nov. 17	1885	509	33	880
Moulton, Lorenzo G., Boston, Mass. Bolt-operating device	327,010	Sept. 29	2429	635	32	1489
Moulton, Luther V., assignor to E. O. Ely, J. B. Parker, G. G. Briggs, Grand Rapids, Mich., and G. E. Parker, Boston, Mass. Button-attaching machine	312,748	Feb. 24	1761	485	30	700
Moulton, Luther V., assignor to Peninsular Novelty Company, Grand Rapids, Mich. Machine for attaching buttons	312,749	Feb. 24	1763	485	30	700
Moulton, Sarah A., Grand Rapids, Mich. Meat-tenderer	311,199	Jan. 27	1383	378	30	275
Moulton, Stillman A., San José, Cal. Cultivator	316,164	Apr. 21	1647	431	31	312
Moulton, Stillman A., San José, Cal. Road-leveler	325,354	Sept. 1	162	44	32	1045
Moulton, Stillman A., San José, Cal. Cultivator	325,432	Sept. 1	291	72	32	1071
Mount, William R., Milton, Ind. Roller-skate	324,875	Aug. 25	2016	553	32	920
Mousseau, Edward. (See Eddy, Millen, and Mousseau.)						
Mowbray, George M., assignor to American Zylonite Company, Adams, Mass. Plastic compound resembling ivory	320,884	June 23	2620	.....	31	1552
Mowen, John H. (See Quint and Mowen.)						
Mower, Alfred A., trustee. (See Nicholson, Ezekiel, assignor.)						
Mower, Jacob K. (See Normand, Joseph M., assignor.)						
Mower, Samuel C., Milwaukee, Wis. Reflector	315,433	Apr. 7	622	160	31	111
Mower, Samuel E., assignor to H. G. Thompson, New Haven, and H. G. Thompson, Milford, Conn. Tag and fastener	313,948	Mar. 17	1258	328	30	1027
Mower, Samuel E., assignor to H. G. Thompson, New Haven, and H. G. Thompson, Milford, Conn. Machine for making hair-pins	319,301	June 2	443	119 120	31	1131
Mowry, George W., Geneva, assignor of one-half to F. M. Smith, New York, N. Y. Blacking-brush	328,599	Oct. 20	1435	373	33	276
Moxham, Arthur J., Johnstown, Pa. Making steel-girder street-rails	310,457	Jan. 6	375	104	30	73
Moxham, Arthur J., Johnstown, Pa. Rolling-mill for rails	312,213	Feb. 10	1031	282	30	546
Moxham, Arthur J., Johnstown, Pa. Securing girder-rails in track	313,512	Mar. 10	653	170	30	907
Moxham, Arthur J., Johnstown, Pa. Railway girder-rail and rail-joint	316,994	May 5	89	23	31	539
Moxham, Arthur J., Johnstown, Pa. Rolled or forged metal chair for railways	316,995	May 5	90	24	31	539
Moxham, Arthur J., Johnstown, Pa. Built-up girder-rail	317,665	May 12	938	256	31	711
Moxham, Arthur J., Johnstown, Pa. Railway-switch	318,645	May 26	2299	614 615	31	970
Moxham, Arthur J., Louisville, Ky. Roll for rolling car-rails	319,009	June 2	96	25, 26	31	1066

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Moxham, Arthur J., Johnstown, Pa. Metal cross-tie for railways	319,010	June 2	98	26	31	1066
Moxham, Arthur J., Johnstown, Pa. Railway-frog	319,011	June 2	99	26	31	1066
Moxham, Arthur J., Johnstown, Pa. Roll for street girder-rails	321,627	July 7	294	78	32	50
Moxham, Arthur J., Johnstown, Pa. Roll for rolling girder-rails	330,997	Nov. 24	2085	564	33	925
Moxham, Arthur J., Johnstown, Pa. Roll for rolling car-rails	330,998	Nov. 24	2086	565	33	925
Moxham, Arthur J., Johnstown, Pa. Railway-switch	331,525	Dec. 1	382	103	33	1067
Moxham, Arthur J., Johnstown, Pa. Railway-switch	331,526	Dec. 1	383	103	33	1068
Moxham, Arthur J., Johnstown, Pa. Railway-switch	333,474	Dec. 29	3189	832	33	1592
Moxham, Arthur J., Johnstown, Pa. Roll for rolling girder-rails	333,475	Dec. 29	3189	833	33	1592
Moyer, Aaron J., Springfield, Ohio. Clutch	330,414	Nov. 17	1336	356	33	775
Moyer, Charles E., Stevens Point, Wis. Centrifugal flour-bolt	313,756	Mar. 10	979	252	30	968
Moyer, George W., Fremont, Nebr. Hay-stacker	322,938	July 28	2101	359	32	405
Moyer, Harvey A., Syracuse, N. Y. Side-spring vehicle	325,182	Aug. 25	2416	663	32	994
Moyer, Jonah W., Philadelphia, Pa. Door	328,900	Oct. 20	1827	476	33	340
Moyer, Joseph H., Reading, Pa. Metallic shaft-tug	324,876	Aug. 25	2017	533	32	920
Moyer, Wellington B., Reading, Pa. Dumb-waiter	316,050	Apr. 21	1482	387	31	222
Moyer, William S., Philadelphia, Pa. Ice-cutting machinery	325,183	Aug. 25	2417	664	32	994
Mugge, Carl A., New Brunswick, N. J., assignor of one-half to W. M. House, New York, N. Y. Sewing-machine	332,207	Dec. 8	1421	367	33	1259
Mueller, Charles L. F., assignor of one-half to E. Schandelin, Milwaukee, Wis. Dynamo-electric machine	325,619	Sept. 1	530	134	32	1116
Mueller, Charles M. (See Hirschheimer and Mueller.)				135		
Mueller, David. (See Billings and Mueller.)						
Mueller, George A., Anderson's Ferry, Ohio. Target-trap	328,051	Oct. 13	706	186	33	134
Mueller, Henry, Decatur, Ill. Roller-skate	330,847	Nov. 17	1886	510	33	880
Mueller, Otto E. (See Weinedel, Charles, assignor.)						
Mueller, Teilo H. (See Sieghartner, August L., Jr., assignor.)						
Muhl, Frederick, and J. S. Carson, Allegheny City, Pa. Mattress	319,419	June 2	590	161	31	1161
Muhlenberg, Edward, et al. (See Arthur, Joseph A., assignor.)						
Muhlhauser, Henry. (See Corey, Jasper W., assignor.)						
Mulholland, Richard, Dunkirk, N. Y. Vehicle-spring	315,053	Apr. 7	93	23	31	19
Muirhead, Alexander, Norwood, county of Surrey, England. Manufacture of compounds to be used for insulating, &c.	310,957	Jan. 20	1034		30	304
Muirhead, Alexander, Norwood, county of Surrey, England. Submarine duplex telegraph	327,097	Sept. 29	2551	665	32	1509
Muirhead, Alexander, Upper Norwood, county of Surrey, England. Adjusting submarine duplex telegraphs	329,477	Nov. 3	69	19	33	518
Muirhead, James, Olneyville, R. I. Water-closet	314,145	Mar. 17	1507	394	30	1073
Mulberry, James C., assignor of two-thirds to F. A. Bachelor and H. E. Langdon, Cincinnati, Ohio. Lubricator	321,096	July 14	806	210	32	155
Mullen, Henry, and J. Noble, Jr., Westfield, Mass. Whip-core	315,653	Apr. 14	939	246	31	175
Mullen, Henry, and J. Noble, Jr., Westfield, Mass. Whip-stock	318,432	May 19	2013	542	31	910
Mullen, Robert H., and H. T. Atkins, assignors to Pearce, Atkins & Co., Cincinnati, Ohio. Manufacture of machine-belt	316,906	Apr. 28	2677	697	31	505
Müller, Armand. (See Waldstein and Müller.)						
Müller, Armand, Mount Vernon, assignor to J. E. Brustlein and P. Sury, New York, N. Y. Insecticide	322,630	July 21	1644		32	315
Müller, Carl. (See Von der Heydt, Hermann, assignor.) (Reissue.)						
Müller, Carl H. F., Hamburg, Germany. Incandescent electric lamp	317,171	May 5	329	82	31	583
Müller, Carl L. (See Kern and Müller.)						
Müller, Ernst F. W., Berlin, Germany. Car-brake	322,959	July 28	2103	500	32	406
Müller, Friedrich, Elizabeth, N. J. Attachment for screw-cutting machines. (Reissue.)	10,576	Mar. 31	2657	703	30	1330
Müller, Friedrich, assignor to himself and M. Macdonald, Elizabeth, N. J. Attachment for screw-cutting machines	311,200	Jan. 27	1384	379	30	275
Müller, Friedrich, New York, N. Y. Fire-grate	329,843	Nov. 3	508	145	33	610
Müller, Friedrich C. G. (See Pielstick and Müller.)						
Müller, George, assignor to Hughes & Müller, Philadelphia, Pa. Lady's riding-habit	320,954	June 30	2719	721	31	1575
Müller, Hans J., assignor to Zucker & Levett Chemical Company, New York, N. Y. Core for the armatures of dynamo-electric machines	320,158	June 16	1625	432	31	1329
Müller, Hermann, Zurich, assignor to Werkzeug und Maschinenfabrik Oerlikon, Oerlikon, near Zurich, Switzerland. Dynamo-electric machine	331,726	Dec. 1	727	181	33	1126
Müller, Hieronymus W. (See Fleischer, Müller, and Arnold.)				182		
Müller, Jacob, New York, N. Y. Machine for separating hop-seeds from their stems	314,146	Mar. 17	1508	395	30	1073
Müller, Johann G., Schöneberg, Prussia, Germany. Imitating objects of majolica-ware	323,823	Aug. 4	565		32	630
Müller, Johann H., Gravesend, N. Y. Car brake and starter	323,354	July 28	2665	710	32	507
Müller, John, Kansas City, Mo. Combined drawing-square and miter	311,911	Feb. 10	605	166	30	468
Müller, John, Kansas City, Mo. Combined square, miter, and bevel	319,012	June 2	101	27	31	1067
Müller, Lawrence A. C. (See Merritt and Müller.)						
Müller, Paul H. (See Klein, Peter L., assignor.)						
Müller, William, assignor to himself and P. Breitenbucher, Atlanta, Ga. Car-coupling	311,667	Feb. 3	270	75	30	399
Mulligan, Bartley T., Brooklyn, N. Y. Type-writer	333,080	Dec. 22	2641	692	33	1490
Mulligan, Edward T., West Winfield, N. Y. Hop-yard twiner	316,165	Apr. 21	1648	431	31	312
Mullin, Benjamin F., Holyoke, Mass. Screen or strainer for the blow-off of paper-stock boilers	313,011	Feb. 24	9112	575	30	762
Mullin, Garland W., Washington, Ga. Plow-point	313,832	Mar. 10	1081	280	30	982
Mullinas, Eli S., Ganado, Tex. Wire-stretcher	331,727	Dec. 1	728	182	33	1126
Mulloy, E. F., et al. (See Kock, Christian, II., assignor.)						
Mulloy, John B., Lima, Peru. Injector and burner	322,844	Nov. 3	508	145	33	611
Mulqueen, Michael, Chicago, Ill. Bindings of books	316,051	Apr. 21	1485	388	31	222
Mulvaney, John, assignor of one-half to A. P. Dunler, Cincinnati, Ohio. Machine for heading barrels	320,159	June 16	1625	433	31	1329
Mulvin, Thomas, Union City, Pa. Roller-skate	330,041	Nov. 10	855	214	33	668
Mulvin, Thomas, Union City, Pa. Roller-skate	332,277	Dec. 15	1519	398	33	1284
Mumford, James W. B., and R. Moodie, Victoria Docks, county of Essex, England. Separating machine	321,379	June 30	3267	873	31	1678
Mumma, John F., Brooklyn, N. Y. Attaching rudders to boats	310,458	Jan. 6	376	104	30	73
Mumma, William G., Warrensburg, Mo. Lock	331,995	Dec. 8	1108	288	33	1205
Munagle, Charles, Milwaukee, Wis. Head-rest for railway-cars	322,843	July 21	1932	511	32	367
Muncaster, Walter J., assignor of one-half to M. McKaig, Cumberland, Md. Metal bending and straightening machine	319,603	June 9	867	230	31	1217
Muncaster, Walter J., assignor of one-half to M. McKaig, Cumberland, Md. Machine for boring cylinders	326,049	Sept. 8	1095	279	32	1294

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Muncester, Walter J., assignor of one-half to M. McKaig, Cumberland, Md. Machine for boring and turning pulleys.....	326,050	Sept. 8	1098	{ 280 281 }	{ 32 }	1225
Muncey, William J., Gunnison City, Colo. Trunk-strap.....	316,384	Apr. 21	1929	509	31	362
Muncey, William J., Gunnison, Colo. Ore-washer.....	318,014	May 19	1463	391	31	808
Münch, Conrad. (See Rau and Münch.)						
Munday, John L., St. Louis, Mo. Automatic car-brake.....	325,215	Aug. 25	2461	677	32	1003
Mundy, Edwin V. (See Crawford and Mundy.)						
Mundy, John A., Syracuse, N. Y. Roller-skate.....	329,845	Nov. 3	571	145	33	611
Munford, William H., Anna, Ohio. Glass-cutting apparatus.....	325,855	Sept. 8	857	{ 215 216 217 }	{ 32 }	1180
Mungall, Andrew, Manchester, N. H. Machine for separating warp-yarn chains.....	323,355	July 28	2667	711	32	508
Munger, Dexter S., Stoneham, Mass. Hitching device for vehicles.....	316,996	May 5	92	24	31	539
Munger, George, East River, Conn. School-desk.....	329,201	Oct. 27	2285	592	33	437
Munger, George A. (See Hand, Benjamin R., assignor.)						
Munger, James P. (See Richmond, Henry T., assignor.)						
Munger, Joseph, assignor to Scovill Manufacturing Company, Waterbury, Conn. Curtain-pole joint.....	333,476	Dec. 29	3190	833	33	1592
Municipal Signal Company. (See Wilson, John C., assignor.)						
Munn, Bernard M., Elizabeth, N. J. Coal-hoisting machine or dredge.....	323,589	Aug. 4	267	78	32	571
Munn, Schuyler J. (See Parrish and Munn.)						
Munro, Donald, assignor of one-half to A. Hislop, Pictou, Nova Scotia, Canada. Chain-link.....	333,095	Dec. 22	2667	700	33	1496
Munro, Gordon, Troy, N. Y. Machine for lining straw and other boards.....	327,404	Sept. 29	2853	771	32	1580
Munro, Reuben, San Francisco, Cal. Car-axle lubricator.....	320,382	June 16	1974	519	31	1422
Munroe & Co. (See Felker, Henry, assignor.)						
Munroe Organ Reed Company. (See Stone, Frank, assignor.)						
Munroe, Robert, Allegheny, Pa. Boiler.....	322,120	July 14	975	254	32	186
Munroe, Robert, Allegheny, Pa. Flanging-machine.....	330,141	Nov. 10	975	254	33	698
Munroe, William H., and T. C. Sullivan, Boston, Mass. Ballot-box.....	311,512	Feb. 3	70	21, 22	30	362
Munroe, William H., and T. C. Sullivan, Boston, Mass. Registering and canceling ballot-box.....	333,145	Dec. 29	2742	{ 720 721 }	{ 33 }	1514
Munshower, George W., Bowling Green, Ohio. Reclining-chair.....	323,824	Aug. 4	565	161	32	630
Munson, Alvin J., Indianapolis, Ind. Coupling for lightning-rods.....	332,673	Dec. 15	2080	546	33	1381
Munson, James E., New York, N. Y. Setting type.....	320,271	June 16	1769	{ 469 470 471 472 473 474 }	{ 31 }	1385
Munson, James E., New York, N. Y. Type-setting machine.....	320,272	June 16	1775	{ 472 473 474 }	{ 31 }	1386
Munson, James E., New York, N. Y. Electrical perforator.....	328,600	Oct. 20	1436	{ 374 375 376 }	{ 33 }	277
Munson, James E., New York, N. Y. Automatic perforating-telegraph.....	330,344	Nov. 10	1224	{ 327 328 329 }	{ 33 }	747
Munson, James E., New York, N. Y. Perforating-machine.....	332,419	Dec. 15	1715	{ 449 450 }	{ 33 }	1317
Munton Car Wheel Company. (See Munton, James, assignor.)						
Munton, James, Maywood, Ill. Tire-rolling machine.....	318,129	May 19	1611	430	31	836
Munton, James, Maywood, Ill. Tire-expanding machine.....	324,406	Aug. 18	1367	372	32	793
Munton, James, assignor to Munton Car Wheel Company, Chicago, Ill. Car-wheel.....	319,837	June 9	1180	311	31	1272
Munton, James, assignor to Munton Car Wheel Company, Maywood, Ill. Car-wheel.....	319,836	June 9	1181	312	31	1273
Munz, John, Jr. (See Hellmuth, Frederick C., assignor.)						
Munz, Theodore C., Toledo, Ohio. Vehicle running-gear.....	327,405	Sept. 29	2954	771	32	1581
Munzinger, Arnold, Otten, Solothurn, Switzerland. Drier.....	317,179	May 5	330	89	31	583
Munzinger, Peter, assignor of two-thirds to J. D. Wilson and W. Haydon, Philadelphia, Pa. Gas-pressure regulator.....	320,273	June 16	1784	{ 474 475 }	{ 31 }	1387
Muratori, Ferdinand L., and E. Cros, Paris, France. Apparatus for regulating or controlling from a distance the flow of gases.....	314,188	Mar. 17	1560	409	30	1062
Murbarger, William E., assignor of one-half to T. C. Dobbins, Dayton, Ohio. Anti-rattler for thill-couplings.....	315,535	Apr. 14	799	208	31	147
Murch, Charles S., Boston, Mass. Manufacture of blotting-paper.....	333,146	Dec. 29	2746	721	33	1515
Murch, Henry L., Ellsworth, Me. Warping-chock.....	316,997	May 5	93	24	31	539
Murch, Lewis W., Racine, Wis. Rotary churn.....	323,878	Aug. 4	637	180	32	643
Murch, Lewis W., Racine, Wis. Butter-worker.....	323,879	Aug. 4	638	180	32	644
Murdick, Israel H., Hartford, Mich. Grain weighing and tallying machine.....	320,383	June 16	1975	519	31	1423
Murdoch, George, Brooklyn, N. Y. Bone-black oven.....	314,866	Mar. 31	2488	650	30	1291
Murdoch, Edwin F. (See Murdoch, William C. and E. F.)						
Murdoch, Horace B., Detroit, Mich. Injector.....	331,154	Nov. 24	2296	622	33	963
Murdoch, Horace B., assignor of one-half to J. Trix, Detroit, Mich. Injector.....	328,424	Oct. 13	1204	311	33	228
Murdoch, William C. and E. F., Washington, D. C. Paving-block.....	316,166	Apr. 21	1649	{ 431 432 }	{ 31 }	313
Murisier, Oscar, Alexandrowsky, near St. Petersburg, Russia, and P. C. Gilchrist, Palace Chambers, Westminster, England; said Murisier assignor to said Gilchrist. Junction or separator lining for open-hearth furnaces.....	322,937	Nov. 10	698		33	642
Murisier, Oscar, Alexandrowsky, St. Petersburg, Russia, and P. C. Gilchrist, Palace Chambers, Westminster, England; said Murisier assignor to said Gilchrist. Open-hearth furnace for iron and steel.....	330,415	Nov. 17	1337	356	33	775
Murkland, J. H., et al. (See Hatch, Fred A., assignor.)						
Murphy, Frank P. (See Murphy, George W. and F. P.)						
Murphy, George W. and F. P., Decatur, Ill. Reel for check-row wire.....	329,066	Oct. 27	2092	543	33	402
Murphy, James L., Pittsburg, Pa. Cork-cutting machine.....	325,856	Sept. 8	858	216	32	1180
Murphy, Alexander A., Montreal, Quebec, Canada. Form for displaying dress-goods, &c.....	322,196	July 14	1072	278	32	204
Murphy, Cornelius D., assignor to Worswick Manufacturing Company, Cleveland, Ohio. Snap-hook.....	314,867	Mar. 31	2489	660	30	1291
Murphy, Daniel H., assignor to F. W. Rogers and J. P. Haff, Hartford, Conn. Towel-holder.....	331,728	Dec. 1	730	183	33	1126
Murphy, Edward, New York, N. Y. Stitch regulating and feeding device.....	315,955	Apr. 14	1362	352	31	252
Murphy, Edward, New York, N. Y. Thread-controlling device for sewing-machines.....	315,956	Apr. 14	1363	353	31	252
Murphy, Edward, New York, N. Y. Tension device for sewing-machines.....	324,579	Aug. 18	1593	439	32	635
Murphy, Edward, New York, N. Y. Thread-controlling device for sewing-machines.....	324,580	Aug. 18	1594	439	32	635
Murphy, Edward J. (See Deleahanty and Murphy.)						
Murphy, James, assignor, by mesne assignments, to himself and C. H. Souther, Boston, Mass. Dumping-scow.....	313,679	Mar. 10	866	225	30	948

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Murphy, James J., Philadelphia, Pa. Dumping-wagon	314,868	Mar. 31	2490	660	30	1221
Murphy, James J., New York, N. Y. Pin-tag	322,631	July 21	1645	435	32	315
Murphy, James R., Crafton, Pa. Type-writing machine	324,407	Aug. 18	1368	372 373	32	793
Murphy, James S. (See True, Mark B., assignor.)						
Murphy, John, Brooklyn, N. Y. Guard for steamboat paddle-wheels	320,160	June 16	1627	433	31	1360
Murphy, John, Brooklyn, N. Y. Machine for cutting india-rubber	323,061	July 28	2253	596	32	432
Murphy, John, Brooklyn, N. Y. Apparatus for the manufacture of india-rubber hose	323,062	July 28	2255	596	32	433
Murphy, John F. (See Clark and Murphy.)						
Murphy, John L. (See Feyh and Murphy.)						
Murphy, Nicholas, Chicago, Ill. Smoke-house	324,408	Aug. 18	1373	373	32	794
Murphy, Patrick, Amesbury, Mass. Mortise-lock	321,380	June 30	3969	873	31	1678
Murphy, Thomas, Cincinnati, Ohio. Tobacco-pipe	313,833	Mar. 10	1082	281	30	986
Murphy, Thomas, Detroit, Mich. Boiler-furnace	316,641	Apr. 28	2274	598 599	31	432
Murphy, Thomas, Detroit, Mich. Furnace	316,642	Apr. 28	2276	599	31	432
Murphy, Thomas, Detroit, Mich. Stuffing-box	329,202	Oct. 27	2286	592	33	437
Murphy, Thomas F. (See Walsh, Murphy, and Clark.)						
Murphy, William, St. John, New Brunswick, Canada. Octave-coupler for organs	322,121	July 14	976	254 255	32	186
Murray, Charles E., deceased; S. Boyer administrator, and assignor to Gowdy & Snyder, Brandt, Ohio. Plow	320,441	June 16	2051	538 539	31	1435
Murray, David, Milwaukee, Wis. Barrel-making machine	322,960	July 28	2104	560 561	32	406
Murray, David A., et al. (See O'Brien, Timothy, assignor.)						
Murray, George J. (See Wood, Richard G., assignor.)						
Murray, George W., Bluffton, Ohio. Spring-seat	324,335	Aug. 11	1271	345	32	767
Murray, George W., Mount Crawford, assignor of one-half to F. E. Staling, Harrisonburg, Va. Trestle	320,674	June 23	2364	694	31	1502
Murray, Gordon, Negaunee, Mich. Railway-tie	323,356	July 28	2669	711	32	508
Murray, John, Pittsburg, Pa. Pendulum-level	328,052	Oct. 13	708	186	33	135
Murray, John J., Jr., Brooklyn, N. Y. Railway-gate	324,780	Aug. 18	1876	516	32	888
Murray, Joseph T., et al. (See Cardwell, George A., assignor.)						
Murray, Peter, Jr., assignor to himself, A. N. Lewis, Newark, R. S. T. and R. B. Cissel, Elizabeth, N. J. Journal-bearing for shafts	332,819	Dec. 22	2272	509	33	1424
Murray, Peter, Jr., assignor to himself, A. N. Lewis, Newark, R. S. T. and R. B. Cissel, Elizabeth, N. J. Automatic fan	332,820	Dec. 22	2273	509	33	1425
Murray, Peter, Jr., assignor to himself, A. N. Lewis, Newark, R. S. T. and R. B. Cissel, Elizabeth, N. J. Combined chandelier and rotating fan	332,821	Dec. 22	2274	509	33	1425
Murray, Samuel J., assignor to Russell & Morgan Printing Company, Cincinnati, Ohio. Machine for cutting card-board	310,534	Jan. 6	478	133	30	92
Murray, Samuel M., and J. C. Stryker, Tipton, Iowa. Ditching-machine	311,668	Feb. 3	272	75	30	400
Murray, William A., Piako, Auckland, New Zealand. Railway-signal	327,962	Oct. 6	559	154	33	106
Murray, William D., Hamilton, Mo. Corn-harvester	321,908	July 7	683	177 178	32	194
Murrell, Rene D. (See Witte and Murrell.)						
Murry, John H., et al. (See Byrkit, Edwin M., assignor.)						
Müssel, Christoph, South Bend, Ind. Apparatus for filling kegs with beer	331,251	Nov. 24	2440	659 660	33	969
Müssel, Christoph, South Bend, Ind. Filling vessels with fermented liquors	331,252	Nov. 24	2443	660	33	969
Müssel, Christoph, South Bend, Ind. Corking device for vessels	331,253	Nov. 24	2444	661	33	969
Müssel, Christoph, South Bend, Ind. Apparatus for filling vessels with fermented liquors	333,021	Dec. 22	2646	693 694	33	1491
Musser, William R., Leftwich, Va. Tobacco-packing machine	314,539	Mar. 24	2030	542	30	1179
Mussinan, Oscar, Jr., New York, assignor to E. Faber, Port Richmond, N. Y. Pencil	317,738	May 12	1219	323	31	755
Musson, John R. (See Baillie, John D., assignor.)						
Mustard, James E., Glen Hall, Ind. Wheel	324,952	Aug. 25	2115	579	32	940
Mustin, James G., Pittsburg, Pa. Seal-lock	325,620	Sept. 1	535	136	32	1118
Mutehler, Charles T., Ottumwa, Iowa. Cleaning-fluid	331,810	Dec. 8	832	.....	33	1154
Muth, Charles. (See Schumann, Henry H., assignor.)						
Muth, Charles. (See Schumann and Muth.)						
Mutter, Andreas, Paterson, N. J. Needle for Jacquard looms	327,188	Sept. 29	2673	625	32	1531
Myers, Albert E., Garland, Pa. Wheel-barrow	324,953	Aug. 25	2116	579	32	940
Myers, Allen A., New York, N. Y. Toilet-paper holder	320,576	June 23	2229	591	31	1477
Myers, Andrew G., and J. B. Cotton, assignors to D. E. McSherry & Co., Dayton, Ohio. Seeding-machine	313,013	Feb. 24	2113	576	30	762
Myers, Burdine B., Mann's Choice, Pa. Shifting draft-bar	320,384	June 16	1977	590	31	1423
Myers, Carl E., Mohawk, N. Y. Portable gas-generator for filling balloons	320,885	June 23	2621	694	31	1552
Myers, Carl E., Mohawk, N. Y. Varnishing-machine	326,051	Sept. 8	1101	281	32	1225
Myers, Carl E. and C. Mohawk, N. Y. Guiding apparatus for balloons	318,575	May 26	2215	592	31	954
Myers, Carlotta. (See Myers, Carl E. and C.)						
Myers, Charles O., York Sulphur Springs, Pa. Car-coupling	310,535	Jan. 6	479	134	30	92
Myers, Christian, deceased, (M. A. Myers, administratrix.) San Francisco, Cal. Reversible plow	312,649	Feb. 24	1624	447	30	675
Myers, Ephraim, Creagerstown, Md. Fence	325,621	Sept. 1	537	136	32	1117
Myers, Francis E. (See Myers, Philip A., assignor.)						
Myers, Frank I., New York, N. Y. Railway-signal	327,576	Oct. 6	97	21	33	18
Myers, Frederick, New York, N. Y. Barrel-making machine	315,434	Apr. 7	692	160 161	31	111
Myers, Frederick, New York, N. Y. Barrel-heading machine	328,965	Oct. 27	1938	505	33	375
Myers, Frederick, New York, N. Y. Machine for trimming, chamfering, and crozing staves	329,646	Nov. 3	572	146	33	611
Myers, Gennal C., Dayton, Ohio. Carpet-fastener	310,217	Jan. 6	73	19	30	16
Myers, Garson, et al. (See Wallace, J. Bennett, assignor.)						
Myers, Garson, and J. B. Wallace, assignors to Myers Manufacturing Company, Chicago, Ill. Hydrocarbon-vapor burner	316,385	Apr. 21	1930	509	31	362
Myers, George A., assignor of one-half to J. P. Earl, Schoolcraft, Mich. Motor	322,624	Oct. 27	1936	505	33	374
Myers, Harry E., assignor to Myers, Osborn & Co., Cleveland, Ohio. Oil-stove	319,013	June 2	101	27	31	1067
Myers, Henry, Alton, Ill. Door-hanger	327,450	Sept. 29	3006	785	32	1590
Myers, Henry J., et al. (See Ruwet, Charles F., assignor.)						
Myers, Henry L., Philadelphia, Pa., and J. W. Rogers, Camden, N. J. Garment and carrying device attached thereto	322,844	July 21	1933	511	32	367
Myers, John. (See McGraw, William H., assignor.)						
Myers, John J., Buffalo, N. Y. Trundling-wheel	327,577	Oct. 6	98	22	33	19
Myers, Laurence, Philadelphia, Pa. Hand-stamp	313,012	Feb. 24	2113	576	30	762

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Myers, Lewis J. (See Fowler, William R., assignor.)						
Myers, Lewis Y., Canton, Ohio. Hay-carrier	327,451	Sept. 29	3007	785	32	1590
Myers, Lewis Y., Canton, Ohio. Hay-fork	328,053	Oct. 13	709	186	33	135
Myers, M. Jervia, Syracuse, N. Y. Electric battery	319,923	June 9	1897	342	31	1293
Myers, M. Jervia, Syracuse, N. Y. Automatic circuit breaker and closer	332,420	Dec. 15	1718	450	33	1318
Myers Manufacturing Company. (See Myers and Wallace, assignors.)						
Myers Manufacturing Company. (See Wallace, J. Bennett, assignor.)						
Myers, Mary A., administratrix. (See Myers, Christian.)						
Myers, Osborn & Co. (See Myers, Harry E., assignor.)						
Myers, Philip A., Ashland, Ohio. Pump	319,924	June 9	1296	343	31	1293
Myers, Philip A., assignor of one-half to F. E. Myers, Ashland, Ohio. Mechanical movement	333,477	Dec. 29	3191	884	33	1592
Myers Sanitary Depot. (See McFarland, Samuel G., assignor.)						
Myers, Simon S. (See Zimmerling, Charles, assignor.)						
Myers, Simon S., Philadelphia, Pa. Preparing food for poultry	321,909	July 7	694		32	124
Myers, Simon S., Philadelphia, Pa. Ironing-tablet	328,425	Oct. 13	1206	311	33	228
Myers & Son, L. (See Foster, Frank P., assignor.)						
Myers, William H., Reading, Pa. Cigar-cutter	320,084	June 16	1527	404	31	1343
Myers, William W., Portland, Mich. Hair-clipping machine	324,781	Aug. 18	1878	516	32	888
Mygatt, John T., New York, N. Y. Envelope for packing furniture	315,435	Apr. 7	697	102	31	112
Nadelhoffer, John W., Joliet, Ill. Machine for making barbed wire	314,001	Mar. 31	2111	563	30	1220
Nadoff, Henry, Louisville, Ky. Faucet and bushing	326,319	Sept. 15	1420	385	32	1303
Nadoff, Henry, Louisville, Ky. Barrel-washing machine	329,847	Nov. 3	574	146	33	612
Nadoff, Henry, Louisville, Ky. Hame-fastener	332,409	Dec. 15	1702	446	33	1315
Nafery, John S., New Albany, Ind. Car-brake	316,562	Apr. 28	2175	573	31	413
Naff, Jacob I. C., Winchester, Ky. Comb for grass-seed harvesters	325,100	Aug. 25	2318	638	32	977
Nagel, August C., R. H. Kaemp, and A. W. F. G. Linnenbrügge, Hamburg, Germany. Reducing grain	310,700	Jan. 13	707	193	30	140
Nagel, August C., R. H. Kaemp, and A. W. F. G. Linnenbrügge, assignors to Nagel and Kaemp, Hamburg, Germany. Disintegrating apparatus for flour-mills	312,215	Feb. 10	1034	983	30	547
Nagel, John, Fulton, Mo. Knife	310,606	Jan. 13	574	158	30	116
Nagle, Augustus F., Chicago, Ill. Force-pump	313,879	Mar. 17	1153	300	30	1008
Nagle, James, Boston, Mass. Rand-trimming machine	328,945	Oct. 13	956	249	33	182
Nagle, Robert J. (See Arthur, Thomas, assignor.)						
Nagley, Charles C., Memphis, N. Y. Tobacco-plant cutter	323,718	Aug. 4	438	125	32	805
Nake, Richard M., Kansas City, Mo. Feeder for mill machinery	320,811	June 23	2527	670	31	1534
Nail Company, S. G. (See Benton, Alexander R., assignor.)						
Nail, Aaron. (See Presbrey and Nail.)						
Nally, Thomas, Lynn, Mass. Machine for crimping shoe-quarters	325,267	Sept. 1	46	14	32	1024
Nally, Thomas, Lynn, Mass. Boot or shoe upper	325,561	Sept. 1	463	116	32	1104
Naly, John N., Greensburg, Pa. Band-cutter and self-feeder for thrashing-machines	321,997	July 14	908	211	32	155
Naramore, Henry L., Sharon, Mass. Striking mechanism for clocks	319,925	June 9	1299	343	31	1294
Naramore, Henry L., Sharon, Mass. Assignor of one-half to A. Fischer, Winchester, and J. F. Potts, Whitehall, Ill. Striking mechanism for clocks	326,228	Aug. 25	2478	681	32	1006
Naramore, Joseph W., assignor to Wallace & Sons, Ansonia, Conn. Machine for sticking pins	317,173	May 5	332	83	31	563
Nascimento, Manoel J. (See Roeske, Henry, assignor.)						
Nascimento, Manoel J., Philadelphia, Pa. Hat-ventilator	314,048	Mar. 17	1376	359	30	1050
Nash, Amasa W. (See Van Delinder and Nash.)						
Nash, Caleb P., assignor to J. E. Jacobs, Brattleborough, Vt. Cot	317,174	May 5	334	83, 34	31	584
Nash, Charles C., assignor to D. M. Small, Providence, R. I. Portable water-closet	311,443	Jan. 27	1727	470	30	338
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Gas-engine	312,494	Feb. 17	1421	391	30	628
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Single-acting engine	312,495	Feb. 17	1425	392	30	628
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Gas-engine	312,496	Feb. 17	1426	392	30	628
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Gas-engine	312,497	Feb. 17	1429	393	30	629
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Gas-engine	312,498	Feb. 17	1432	394	30	629
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Igniter for gas-engines	312,499	Feb. 17	1435	394	30	630
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Oscillating water-meter	320,577	June 23	2230	591	31	1477
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Oscillating water-meter	320,578	June 23	2234	592	31	1478
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Oscillating water-meter	320,579	June 23	2236	592	31	1479
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Combined fuel-converter and gas-engine	322,062	July 14	896	232	32	171
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Combined gas-producer and gas-engine	322,063	July 14	898	233	32	171
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Explosive-vapor engine	331,078	Nov. 24	2179	591	33	943
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Explosive-vapor engine	331,079	Nov. 24	2182	592	33	944
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Operating gas-engines	331,080	Nov. 24	2185	593	33	944
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Explosive-vapor engine	331,210	Nov. 24	2378	643	33	978
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Proportional water-meter	322,935	Dec. 22	2432	645	33	1456
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Operating proportional water-meters	322,936	Dec. 22	2434	645	33	1456
Nash, Lewis H., Brooklyn, assignor to National Meter Company, New York, N. Y. Proportional water-meter	322,937	Dec. 22	2437	645	33	1456
Nash, Samuel, Winnipeg, Manitoba, Canada. Remedy for rheumatism	328,507	Oct. 20	1304		33	254
Nash, Scott C., Harrisburg, Pa. Portable camera	315,156	Apr. 7	834	57	31	42
Nason, Carleton W., New York, N. Y. Machine for welding plugs in the ends of tubes	331,587	Dec. 1	384	104	33	1068
Nason, Carleton W., New York, N. Y. Closing the ends of metal tubes	331,528	Dec. 1	386	104	33	1068
Nason, Carleton W., New York, N. Y. Apparatus for centering and inserting disks in the ends of tubes	331,529	Dec. 1	387	104	33	1068
Natanson, Adam, Paris, France, assignor to C. Wahl, Chicago, Ill. Refrigerating apparatus	327,300	Sept. 29	2810	732	32	1537

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Nathan, Benjamin. (See Smadbeck and Nathan.)						
Nathan Manufacturing Company. (See Roddy, Robert, assignor.)						
Nathan Manufacturing Company. (See Roddy and Kaczander, assignors.)						
National Cash Register Company. (See Maltby, Clinton H., assignor.)						
National Electric Railway System. (See McLaughlin, James F., assignor.)						
National Electrical Company. (See Parcelle, Albert L., assignor.)						
National Furniture Company. (See Welker, Louis, assignor.)						
National Heeling Machine Company. (See Demary, George T., assignor.)						
National Heeling Machine Company. (See Henderson, Henry A., assignor.)						
National Heeling Machine Company. (See Henderson and Raymond, assignors.)						
National Improved Telephone Company. (See Perrin, Thomas J., assignor.)						
National Improved Telephone Company. (See Randall, Charles A., assignor.)						
National Iron and Brass Works. (See Smedley, Edwin, assignor.)						
National Machine Company. (See Hallenbeck and Phelps, assignors.)						
National Manufacturing Company. (See Maltby, Clinton H., assignor.)						
National Manufacturing Company. (See Ritty, James, assignor.)						
National Motor Company. (See Nash, Lewis H., assignor.)						
National Needle Company. (See Berry, John, assignor.)						
National Plaster Company. (See Abbott, Thomas A., assignor.)						
National Saw Guard Company. (See Comer, Joseph A., assignor.)						
National Therm Motor Company. (See Baker, Elbridge, assignor.)						
National Tube Works Company. (See Patterson, Peter, assignor.)						
National Tube Works Company. (See Patterson and Boyd, assignors.)						
National Typographic Company. (See Clephane, James O., assignor.)						
National Typographic Company. (See Maltby, Frank D., assignor.)						
National Typographic Company. (See Mergenthaler, Ottmar, assignor.)						
National Typographic Company. (See White, John H., assignor.)						
Native, Theodore C., Oakland, Cal. Fire-place and chimney	313,441	Mar. 3	567	146	30	882
Naurth, George V., Cincinnati, Ohio. Revolving book-case	317,175	May 5	335	84	31	584
Naurth, George V., Cincinnati, and J. M. Jenkins, Carthage, assignors to Globe File	315,157	Apr. 7	237	58	31	43
Company, Cincinnati, Ohio. Letter-file box	316,609	Apr. 28	2530	661	31	478
Naurth, George V., assignor to Globe Files Company, Cincinnati, Ohio. Temporary binder	312,005	Feb. 10	738	202	30	493
Naughton, James W., Brooklyn, N. Y. Window	322,706	Oct. 20	1584	412	33	302
Naughton, Michael, Philadelphia, Pa. Hoop-driver						
Navert, William H. (See Liston and Navert.)						
Nawadny, Albert, assignor to A. L. A. ffield and C. A. Baud, New Orleans, La. Fan attachment	315,330	Apr. 7	463	117	31	84
Nax, Leonhard, Philadelphia, Pa. Tobacco-pipe	315,321	Apr. 7	464	117	31	84
Naylor, Michael, Cleveland, Ohio. Shoe-fastener	315,819	Apr. 14	1160	306	31	219
Naylor, Arthur, Cold Spring, N. Y. Machine for sanding brick-molds	327,711	Oct. 6	279	71	33	49
Naylor, George W., Jersey City, N. J. Sash-holder	327,712	Oct. 6	281	72	33	49
Naylor, James, Jr., Poughkeepsie, N. Y. Roller-skate	328,332	Oct. 13	1067	277	33	202
Naylor, Thomas A., Baltimore, Md. Ice-cream freezer	312,287	Feb. 17	1143	313	30	576
Naylor, Thomas A., Baltimore, Md. Conveyor for coal-carts	314,869	Mar. 31	2491	660	30	1291
Neacy, Thomas J., Milwaukee, Wis. Set-works for saw-mills	323,244	Dec. 29	2880	752	33	1539
Neal, Adam S., Richmond, Tex. Car-coupling	312,152	Feb. 10	945	257	30	532
Neal, George H., Falls City, Nebr. Cradle	325,960	Sept. 8	985	250	32	1204
Neal, James W., assignor of one-half to M. M. Rogers, Roanoke, Va. Car-coupling	325,622	Sept. 1	538	136	32	1117
Neal, William W., et al. (See Wells, Frank R., assignor.)						
Neale, James, Bridgeport, Conn. Sewer-gas check for sinks	322,961	July 28	2108	561	32	407
Neale, James, Bridgeport, Conn. Reamer	330,508	Nov. 17	1457	390	33	798
Nebeling, Gottfried A., Remscheid, Prussia, Germany, assignor to G. W. Korn, New York, N. Y. Metallic plate for covering roofs and walls	317,176	May 5	336	86	31	585
Neblett, Charles, Cincinnati, Ohio. Hasp-lock	314,147	Mar. 17	1590	395	30	1074
Needles, Singsmer, assignor of one-fourth to D. H. Smith, Sedalia, Mo. Tucker attachment for sewing-machines	321,310	June 30	3179	847	31	1660
Neeley, Charles E., Gurdon, Ark. Head-rest	325,006	Aug. 25	2193	601	32	952
Neely, Samuel M., Smith's Turn Out, S. C. Cylinder plow and pulverizer	332,421	Dec. 15	1720	451	33	1318
Neely, Thomas. (See Marland, Alfred, assignor.)						
Neff, Charles H., et al. (See Coffield, Peter T., assignor.)						
Neff, Edward E. (See Crogmille, Crittenden, assignor.)						
Neff, James M. W., Cincinnati, Ohio. Ice-machine	322,550	July 21	1535	405	32	295
Neff, Peter, assignor to P. Neff, Jr., Gambier, Ohio. Apparatus for manufacturing lamp-black	314,706	Mar. 31	2245	597	30	1245
Neff, Peter, assignor to P. Neff, Jr., Gambier, Ohio. Apparatus for manufacturing lamp-black	314,707	Mar. 31	2247	598	30	1246
Neff, Peter, assignor to P. Neff, Jr., Gambier, Ohio. Apparatus for manufacturing lamp-black	319,604	June 9	872	230	31	1218
Neff, Peter, assignor to P. Neff, Jr., Gambier, Ohio. Apparatus for the manufacture of lamp-black	319,605	June 9	873	231	31	1218
Neff, Peter, assignor to P. Neff, Jr., Gambier, Ohio. Apparatus for the manufacture of lamp-black	319,606	June 9	874	231	31	1218
Negróni, Edward, 32 Brunswick Square, county of Middlesex, England. Music-leaf turner	321,238	June 30	3091	822	31	1643
Nehmer, Heinrich. (See Coxeter and Nehmer.)						
Nehrlich, Hugo, Berlin, and A. Neubecker, assignors to A. Neubecker, Offenbach-on-the-Main, Hesse, Germany. Refrigerator	331,530	Dec. 1	388	105	33	1069
Neil, Charles H. (See Gardner, William, assignor.)						
Neil, Charles H. (See Hirn, Joseph, assignor.)						
Neil, Michael. (See Bissell, Frank H., assignor.)						
Neil, Michael, et al. (See Tiffany, Albert R., assignor.)						
Neild, Robert R., Stratford, Ontario, Canada. Tool-holder for planing-machines	318,646	May 26	2301	615	31	971
Neill, John F., Rusk, Tex. Device for illustrating the transposition of musical scales	323,196	July 28	2439	646	32	468
Neilsen, William, Bath, Mich. Signaling apparatus	318,015	May 19	1464	392	31	808
Neiman, Daniel S., Fargo, Dak. Ter. Oil-filter	320,274	June 16	1786	475	31	1367
Neisler, Oscar L., Indianapolis, Ind. Cultivator	324,720	Aug. 18	1792	494	32	871
Nellis, Aaron J., Pittsburg, Pa. Securing the teeth of horse hay-rakes, &c.	328,508	Oct. 20	1304	339	33	254
Nellis, Abram R., Glenn's Ferry, Idaho Ter. Current-wheel	331,996	Dec. 8	1109	288	33	1205
Nelmes, Philip N., and T. Crawshaw, Taunton, Mass. Hammock	329,763	Nov. 3	455	115	33	590
Nelson, Abram, New York, N. Y. Staple	319,607	June 9	875	231	31	1218
Nelson, Alfred, Rockford, Ill. Rotary cut-off valve	332,101	Dec. 8	1972	330	33	1234
Nelson, August, Kent, Ohio. Bush-hammer	328,509	Oct. 20	1305	339	33	254
Nelson, Charles H. (See Emerson, Loender, assignor.)						
Nelson, Charles R., New York, N. Y. Window-bead fastener	320,161	June 16	1622	433	31	1360

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Nelson, Charles R., New York, N. Y. Box-fastener	321,622	July 7	295	78	32	56
Nelson, Edgar A., Washington, D. C. Point-indicator for time-pieces	315,332	Apr. 7	465	118	31	84
Nelson, Erasmus C., Evanston, Ill. Fire-extinguisher holder	323,498	July 21	1425	373	32	276
Nelson, Francis J., Boston, Mass., assignor to Batchelder Machine Company, Portland, Me. Machine for brushing and treating leather	316,167	Apr. 21	1650	432	31	313
Nelson, Francis J., and P. C. Donovan, Boston, Mass. Roller-skate	323,978	Dec. 15	1521	398	33	1284
Nelson, George A., assignor to C. H. Hildreth, Chicago, Ill. Folding bed	319,808	June 9	876	231	31	1218
Nelson, Hans and J., Waupaca, Wis. Potato-digger	321,629	July 7	296	79	32	57
Nelson, Irenaeus P., assignor of one-half to N. B. Tubbs, Hamilton, Ohio. Roller-skate	319,839	June 9	1182	312	31	1273
Nelson, J. Arthur. (See Becker, Bernard E., assignor.)						
Nelson, Jabez C., Marion, Ala. Cultivator	319,609	June 9	877	232	31	1219
Nelson, Jacob. (See Nelson, Hans and J.)						
Nelson, James, and L. P. Larson, Concordia, Kans. Hog-trough	325,600	Sept. 8	628	159	32	1138
Nelson, James W. (See Courtney and Nelson.)						
Nelson, Jesse. (See Nelson, Tiberius C. and J.)						
Nelson, John, Rockford, Ill. Incandescent electric lamp	327,578	Oct. 6	99	22, 23	33	19
Nelson, John B., Linden, Tex. Pump for oil-cans, &c.	320,067	Oct. 27	2093	543	33	402
Nelson, John L., and A. F. Landerholm, Chicago, Ill. Safety steam and water gage	316,998	May 5	94	24	31	539
Nelson Manufacturing Company, N. O. (See Reid, William A., assignor.)						
Nelson Manufacturing Company, N. O. (See Vosburgh, Jacob, assignor.)						
Nelson, Olive, Houghton Lake, Mich. Food-steamer	317,830	May 12	1220	323	31	755
Nelson, Oliver R., Chicago, Ill. Hydraulic press attachment	321,745	July 7	447	118	32	83
Nelson, Philip. (See Drew, Lelsner, and Nelson.)						
Nelson, Philip, Las Vegas, N. Mex. Ter. Harrow	327,713	Oct. 6	282	72	33	50
Nelson, Tiberius C. and J., Hanrahan, N. C. Rice-planter	317,565	May 12	856	220	31	627
Nelson, William A., assignor to J. D. Tully, Omaha, Nebr. Awning	313,757	Mar. 10	980	253	30	982
Nelson, William C., Santa Rosa, Cal. Napkin-supporter	324,039	Aug. 11	855	237	32	629
Nelson, William C., Santa Rosa, Cal. Pounding and washing machine	328,136	Oct. 13	816	213	33	155
Nendel, William, and W. I. Knowlton, Ireton, Iowa. Metallic fence-post	314,870	Mar. 31	2492	661	30	1291
Nepil, Anton O. (See Fowler and Nepil.)						
Neracher, William, Cleveland, Ohio. Filter	331,531	Dec. 1	383	105	33	1069
Neracher, William, Cleveland, Ohio. Filter	332,422	Dec. 15	1732	451	33	1319
Nesbit, A. Walter, et al. (See Terry, Samuel H., assignor.)						
Nesbit, Mary A. et al. (See Terry, Samuel H., assignor.)						
Nesbit, Watson M. (See Kennedy and Nesbit.)						
Nesbitt, Amos K., Alton, Ill. Palf'ing-machine	327,815	Oct. 6	406	105	33	71
Nesbitt, John D., Everett, Mass. Umbrella	324,581	Aug. 18	1595	440	32	835
Nessel, John G., and W. H. Steinbrecher, Detroit, Mich. Spark-arrester and smoke-consumer	320,671	Sept. 22	1928	508	32	1392
Nettleton, William A., Bridgeport, Conn. Corset	315,436	Apr. 7	628	162	31	112
Nettleton, William A., Bridgeport, Conn. Corset-stay	320,162	June 16	1629	434	31	1360
Neubecker, Adam. (See Nehrlich and Neubecker.)						
Neubert, John J., Rochester, N. Y. Attachment for pants	312,884	Feb. 24	1941	531	30	731
Newburger, Isidor, New York, N. Y. Show-card for embroidery	332,102	Dec. 8	1274	331	33	1224
Neuer, Stanley W., New York, N. Y. Medical compound	321,839	July 7	595	32	30	109
Nenert, Charles A., Boston, Mass. Fare-register	313,513	Mar. 10	656	170	30	907
Nenert, Jacob, Sandusky, Ohio. Valve-gear for steam-engines	315,654	Apr. 14	940	246	31	175
Neukomm, David. (See Neukomm, George, L., and D.)						
Neukomm, George, L., and D., Tremont, Ill. Band-cutter and grain-feeder for threshers	312,006	Feb. 10	741	203	30	493
Neukomm, Louis. (See Neukomm, George, L., and D.)						
Neuman, Etienne, Washington, D. C. Treating tobacco	325,110	Aug. 25	2319	638	32	977
Neumer, Emil, and M. Derz, New York, N. Y. Extension-table	323,550	Aug. 4	180	52	32	556
Neumer, Ferdinand, New York, N. Y. Attachment for bottle-wiring machines	332,547	Dec. 15	1899	496	33	1340
Neumeyer, Horace F., Macungie, Pa. Fire-escape	331,081	Nov. 24	2188	593	33	945
Neutaeber, Allise, Mendota, Ill. Folding table and seat	322,246	Oct. 13	957	249	33	122
Nevegold, William F., Bristol, Pa. Rail-fastening	319,742	June 9	1041	275	31	1249
Neven, John B., et al. (See Kirby, Jeremiah, assignor.)						
Neville, John, Jersey City, N. J. Furnace	321,519	July 7	158	42	32	31
Neville, John P. (See Euston and Neville.)						
Neville, Thomas E. (See McCauley, Patrick, assignor.)						
Nevin, Robert A., San Francisco, Cal. Ore and salt drier	319,610	June 9	878	229	31	1219
Nevins, Burnet L., Washington, D. C. Underground conductor for wires	319,112	June 2	221	58	31	1088
Nevins, Burnet L., Washington, D. C. Conduit for underground wires and cables	319,420	June 2	592	161	31	1161
New Doty Manufacturing Company. (See Short, Robert L., assignor.)						
New England Butt Company. (See McCahey, John, assignor.)						
New Enterprise Edge Trimmer Company. (See Gilman, Charles A., assignor.)						
New Era Brewing Company. (See Frings, Charles H., assignor.)						
New Haven Clock Company. (See Lane, Frederick A., assignor.)						
New Haven Clock Company. (See Tyrrill, Alfred D., assignor.)						
New Haven Clock Company. (See Wood, Frank B., assignor.)						
New Haven Watch Company. (See Doolittle, William E., assignor.)						
New Home Sewing Machine Company. (See Huntington, Thomas S., assignor.)						
New Home Sewing Machine Company. (See Thomas, Eddy T., assignor.)						
New Jersey Steel and Iron Company. (See Hanford, Robert G., Jr., assignor.)						
New Union Manufacturing Company. (See Morgan, Edgar H. and C., assignors.)						
New York Adjustable Stern Dock Company. (See Howea, D. Willis, assignor.)						
New York and Chicago Chemical Company. (See Manwaring, Morris B., assignor.)						
New York Automatic Scale Company. (See Seesale, Charles, assignor.)						
New York Belting and Packing Company. (See Jones, Frank C., assignor.)						
New York Belting and Packing Company. (See McDermott, Charles J., assignor.)						
New York Bottlers' Supplies Manufacturing Company. (See Kent, Alonzo F., assignor.)						
New York City Wire Nail Company. (See Follansbee, John S., assignor.)						
New York Felting Company. (See Hyatt, Walter P., assignor.)						
New York Fire Extinguisher Company. (See Turner, Thomas G., assignor.)						
New York Plow Company. (See Brown, James B., assignor.)						
New York Safety Steam Power Company. (See Davis, David P., assignor.)						
New York Stationery and Envelope Company. (See Peck, Edward S., assignor.)						
New York Steam Company. (See Duff, Thomas W., assignor.)						
New York Steam Company. (See St. John, Thomas C., assignor.)						
Newark Machine Company. (See Kallor, John N., assignor.)						
Newark Machine Company. (See Miller, Abraham, assignor.)						
Newark Machine Company. (See Miller and Kallor, assignors.)						
Newbold, William F., Cedar, Iowa. Potato-planter	312,885	Feb. 24	1942	531	30	731

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Newbourg, Charles, Brooklyn, N. Y. Portable desk	327,810	Oct. 6	407	106	33	71
Newbury, Charles H., assignor of one-half to D. Phinney, Merrill, Wis. Mechanical movement	326,052	Sept. 8	1103	281	32	1226
Newbury, Henry F., Brooklyn, N. Y. Burglar proof safe	323,590	Aug. 4	369	78, 79	32	571
Newbury, James G. (See Mack and Newbury.)						
Newcomb, Charles N., Omaha, Nebr. Loom-shuttle	330,144	Nov. 10	978	254	33	698
Newcomb, Horatio A., Greenfield, Mass. Mold	316,052	Apr. 21	1486	368	31	228
Newcomb, James E., Rock Island, Ill. Door-check	326,320	Sept. 15	1481	385	32	1303
Newcomer, Jacob L., Baltimore, Md. Egg-beater	318,766	May 26	2493	667	31	1005
Newell, Augustus, Chicago, Ill. Reed for organs	322,469	July 21	1426	373	32	276
Newell, George E., and L. G. Ladd, assignors to Smith, Grant & Co., Pawtucket, R. I. Hoisting-bucket. (Reissue)	10,551	Jan. 13	902	244	30	176
Newell, George F., Boston, assignor of one-half to S. Frost, Newton, Mass. Pipe-wrench	328,601	Oct. 20	1440	375	33	277
Newell, Herman F., Flushing, Mich. Creaming-can	330,325	June 16	1078	520	31	1423
Newell, Isiah, Haverhill, Mass. Condenser for wool-carding machines	315,054	Apr. 7	94	93	31	19
Newell, James J., Adrian, Mich. Apparatus for generating heating and illuminating gases	314,871	Mar. 31	2493	661	30	1292
Newell, John G., New Haven, Conn. Burglar alarm	323,901	Sept. 8	985	250	32	1201
Newell, Lewis T., Albany, N. Y. Gridiron	318,493	May 26	2026	564	31	923
Newell, Nelson C., Springfield, Mass. Button	310,900	Jan. 20	939	961	30	192
Newgent, Thomas G. (See Smith, James C., assignor.)						
Newhall, George M., Philadelphia, Pa. Apparatus for mixing, heating, and drying sugar, &c.	321,746	July 7	449	119	32	83
Newhall, George M., and J. H. Tucker, Philadelphia, Pa. Machining raw sugar	333,023	Dec. 22	2571	676	33	1479
Newhart, Stephen, et al. (See Kleppinger, Joseph H., assignor.)						
Newhouse, Frederick, assignor of one-half to E. J. and F. L. Cable, Toledo, Ohio. Locomotive	311,601	Feb. 3	192	54	30	325
Newhouse, James, Jersey City, N. J. Spring-bed	330,493	June 23	2123	560	31	1457
Newlin, William, Attica, assignor of one-half to J. S. Warwick, Lafayette, Ind. Wheel-plov	316,053	Apr. 21	1487	388	31	222
Newlin, William, Attica, assignor of one-half to J. S. Warwick, Lafayette, Ind. Wheel-plov	318,223	May 19	1804	483	31	873
Newlin, Woodford D., Annapolis, Ill. Kitchen-cabinet	333,245	Dec. 22	2682	753	33	1540
Newlon, William H., Beaver Falls, Pa. Car-coupling	323,951	Aug. 11	734	205	32	669
Newman, Anton E., assignor of one-half to C. C. Valentine, New York, N. Y. Manufacture of fiber for paper, &c.	318,433	May 19	2014		31	910
Newman, Charlton, San Francisco, Cal. Fruit-jar	320,580	June 23	2239	593	31	1479
Newman, Clyde H., and W. Berrigan, Rochester, N. Y. Electrical device to enable show-mon to walk on the ceiling	320,275	June 16	1787	476	31	1326
Newman, Emeline, et al. (See Newman, Nelson, assignor.)						
Newman, Henry. (See Schwarzwald, Gustav, assignor.)						
Newman, Isaac. (See Zorkowski, Abraham L., assignor.)						
Newman, Isaac, New Haven, and G. H. Blakesley, Bristol, Conn. Stiffening-cord for corsets	327,817	Oct. 6	408	106	33	71
Newman, Judson J. (See Dunbar, William, assignor.)						
Newman, Lorenzo M., et al. (See Caesar, Peter J., assignor.)						
Newman, Martin, et al. (See Caesar, Peter J., assignor.)						
Newman, Nelson, assignor to E. Newman, J. N. Reece, L. W. Shepherd, and G. A. Sanders, Springfield, Ill. Corn-planter	327,301	Sept. 29	2812	733	32	1557
Newman, Oscar M., Milton, Fla. Rice-huller	317,940	May 12	1920	323	31	753
Newman, Samuel T., Danbury, Conn. Lathe-chuck	318,387	May 10	1954	527	31	900
Newman, Wenzel, Brooklyn, N. Y. Fancet for toys	312,750	Feb. 24	1765	485	30	708
Newman, Thomas G., Holden, Mo. Washing-machine	325,691	Oct. 20	1696	442	33	325
Newnam, Thomas, Wainwright, Ga. Saw-sawce	315,820	Apr. 14	1170	306	31	219
Newsom, Charles S., Gallipolis, assignor to himself and J. A. Wolfe, Athens, Ohio. Incubator	330,609	Nov. 17	1577	422	33	821
Newth, Walter S., assignor of one-half to R. H. Roberts, De Kalb, Ill. Reel device for fence-wire	330,610	Nov. 17	1578	423	33	822
Newton, Charles C., Philadelphia, Pa. Milling-machine	319,302	June 2	446	130	31	1132
Newton, Collins F., and W. S. Wing, Omaha, Nebr. Blocking and guarding rails, switches, &c.	321,132	June 30	2960	784	31	1618
Newton, Dudley, Newport, R. I. Cornice-gutter	317,841	May 19	1921	323	31	755
Newton, Frederick P., Woodbridge, and E. B. Beecher, Westville, Conn. Machine for making match-boxes	322,470	July 21	1427	373	32	276
Newton, Henry G., administrator. (See Hawkins, Robert H.)						
Newton, Herbert C., Groton, N. Y. Brake-block	317,177	May 5	337	85	31	585
Newton, James, Hanover, Mass. Folding music-stand	331,811	Dec. 8	833	212	33	1154
Newton, Nelson A., Kalamazoo, Mich. Wagon-spring	325,355	Sept. 1	163	44	32	1045
Newton Obadiah G., Trenton, Mo. Door or window screen	312,374	Feb. 17	1235	346	30	597
Newton, Stephen S., Brooklyn, N. Y. Bottle-stopper	327,818	Oct. 6	408	106	33	72
Newton, William H., Assumption, Ill. Cultivator	313,758	Mar. 10	981	253	30	986
Ney, Robert W. (See Booth and Ney.)						
Niblick, Dewitt C., Chicago, Ill. Coal-hoisting apparatus	313,880	Mar. 17	1154	300	30	1006
Nichless, Anthony, assignor of one-half to I. Z. Merriam, Whitewater, Wis. Grain-adjuster for binders	312,576	Feb. 17	1534	419	30	649
Nichol, John C., Montreal, Quebec, Canada. Car-axle lubricator	330,257	Nov. 10	1111	294	33	725
Nicholas, Benjamin F., Renova, Pa. Ventilated pillow and bolster with attachments	316,999	May 5	95	25	31	540
Nicholas, Thomas, Ishpeming, Mich. Car-coupling	313,620	Mar. 10	866	226	30	948
Nicholas, Thomas, Calumet, Mich. Kitchen-cabinet	318,924	May 26	2672	708	31	1037
Nicholes, John H., Sumter, assignor of one-half to A. T. Smythe, Charleston, S. C. Pea-harvesting machine	317,066	May 12	969	256	31	711
Nicholls, Richard, Hendon, county of Middlesex, England. Apparatus for the reception and deodorization of human excreta, &c.	324,146	Aug. 11	997	275	32	716
Nichols, Aaron S., Chicago, Ill. Lumber-drier	329,669	Nov. 3	325	83	33	506
Nichols, Aaron S., Chicago, Ill. Platen for drying apparatus	331,532	Dec. 1	394	106	33	1069
Nichols, Andrew M. (See Hoyt and Nichols.)						
Nichols, Charles F., San Francisco, Cal. Guide for boring doors for locks	310,710	Jan. 13	706	193	30	140
Nichols, David. (See Smalstig, Fredrick C., assignor.)						
Nichols, David R., Brockville, Ontario, Canada. Rod and bolt cutter	326,772	Sept. 29	2098	545	32	1421
Nichols, H. N. (See Sharpneck, William S., assignor.)						
Nichols, Herbert N. (See Sharpneck, William S., assignor.)						
Nichols, J. B., et al. (See Sanders, Theodore, assignor.)						
Nichols, John B., New York, N. Y. Toy	315,437	Apr. 7	629	162	31	112

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Nichols, Kate E., and E. V. W. Hale, Leominster, Mass. Individual holder or rest for table-service articles.....	324,478	Aug. 18	1463	401	32	809
Nichols, Kate E., and E. V. Whitney, Leominster, Mass. Individual holder or rest for table-service articles.....	333,082	Dec. 22	2647	694	33	1491
Nichols, Kepler H., Fairfield, Conn. Tree-box.....	325,184	Aug. 25	2419	664 665	32	995
Nichols, L. T., Ellington, Minn. Farm-gate.....	327,894	Oct. 6	498	130	33	80
Nichols, Oldin, Boston, Mass. Apparatus for making paste.....	331,647	Dec. 1	607	150	33	1104
Nichols, Oldin, Boston, Mass. Making paste.....	331,648	Dec. 1	608	150	33	1104
Nichols, Robert H., Aylesford, Nova Scotia, Canada. Fire-escape.....	311,660	Feb. 3	273	76	30	400
Nichols, Thomas R., Lynn, Mass. Sash-lock.....	320,675	June 23	2365	624 625	31	1502
Niehols, Urias R., New River, Tenn. Lumber-boom.....	313,808	Mar. 10	777	204	30	920
Nicholson, Charles F., Rochester, N. Y. Water-color.....	324,147	Aug. 11	998		32	716
Nicholson, Ezekiel, assignor to A. A. Mower, trustee, Lynn, Mass. Knife-blade holder.....	332,548	Dec. 15	1901	497	33	1349
Nicholson, Granville, New York, N. Y. Band for strapping boxes, &c.....	332,356	Dec. 15	1633	428	33	1304
Nicholson, Granville, assignor to J. L. Clark, New York, N. Y. Adjustable bale-band.....	313,014	Feb. 24	2115	576 577	30	763
Nicholson, Granville, assignor to J. L. Clark, New York, N. Y. Band for strapping boxes, bales, &c.....	315,438	Apr. 7	630	162	31	112
Nicholson, Granville, assignor to J. L. Clark, New York, N. Y. Wire bale-tie.....	315,821	Apr. 14	1171	306	31	220
Nicholson, Henry C., Mount Washington, Ohio. Electric railway-signal.....	329,478	Nov. 3	71	19, 20	33	518
Nicholson, Henry C., Kenton, Ky., assignor to Western Union Telegraph Company, New York, N. Y. Quadruplex telegraph.....	332,549	Dec. 15	1902	497	33	1349
Nicholson, Henry C., Kenton, Ky., assignor to Western Union Telegraph Company, New York, N. Y. Quadruplex telegraph.....	332,550	Dec. 15	1905	498	33	1349
Nicholson, Henry C., Mount Washington, Ohio, assignor to Western Union Telegraph Company, New York, N. Y. Quadruplex telegraph.....	332,551	Dec. 15	1907	499	33	1350
Nicholson, John H., New York, N. Y. Artificial ear-drum.....	312,577	Feb. 17	1535	419	30	650
Nicholson, Stephen, and H. A. Bowen, Providence, R. I. Obtaining carbon for incandescents.....	329,670	Nov. 3	396	84	33	566
Nicholson, W. Newzam, and A. T. Allcock, Newark-upon-Trent, county of Nottingham, England. Safety-valve.....	310,459	Jan. 6	377	105	30	74
Nickel, Adam. (See Wessel, Nickel, and Gross.)						
Nickel, Julius M., Baltimore, Md. Curtain-fixture.....	312,888	Feb. 24	1943	532	30	731
Nickels, William W., et al. (See Jesser, Robert, assignor.)						
Nicken, Adam, Buffalo, N. Y. Game counter and register.....	321,046	June 30	2844	757	31	1599
Nickerson, Amos, Somerville, Mass. Hammock-spreader.....	320,276	June 16	1789	475	31	1388
Nickerson, Amos, Boston, Mass. Head-rest for hammocks.....	325,091	Sept. 8	629	159	32	1148
Nickerson, Amos, Boston, Mass. Net attachment for hammocks.....	326,321	Sept. 15	1482	386	32	1303
Nickerson, Fred. A., assignor to Dickinson Hard Rubber Company, Springfield, Mass. Button.....	322,311	July 14	1207	318	32	229
Nickerson, William E., Somerville, Mass. Adjustable chair for tracks.....	311,254	Jan. 27	1461	399	30	290
Nicolana, Edmund B., Cleveland, Ohio. Electric switch.....	322,745	July 21	1799	475	32	343
Nicolet, Albert, Newark, N. J. Stopper for burst pipes.....	329,738	Nov. 10	699	179	33	642
Nida, Charles, New York, N. Y. Machine for cleaning intestines.....	319,130	May 19	1612	431	31	836
Nida, Charles W., New York, N. Y. Sash-fastener.....	318,576	May 26	2217	592	31	934
Nibel, Abner, assignor to J. W. Nibel, Tiffin, Ohio. Manure-fork.....	316,810	Apr. 28	2531	662	31	479
Nibel, John W. (See Nibel, Abner, assignor.)						
Niedermeyer, F. Louis, Schönebeck, near Magdeburg, Prussia, Germany. Button.....	322,064	July 14	900	223	32	172
Niehaus, Fredrick W., McGirk, Mo. Combined scaffold and ladder.....	316,643	Apr. 28	2279	599	31	432
Niehaus, Henry A., St. Louis, Mo. Car-coupling.....	317,178	May 5	338	85	31	585
Nielsen, Jens, and M. Pedersen, Røskilde, Denmark. Centrifugal machine.....	330,345	Nov. 10	1231	329	33	748
Nielson, Rudolph, New York, N. Y. Glass mosaic for decorating rooms and other purposes.....	313,099	Mar. 3	81	21	30	792
Nielson, William, New York, N. Y. Fabric for wall-decorations.....	327,764	Nov. 3	456	115	33	591
Nielson, William, New York, N. Y. Plastic compound for wall decorations, &c.....	332,162	Dec. 8	1363		33	1249
Nieman, Theodore. (See Crowther, George, assignor.)						
Niemann, James P., Brooklyn, assignor to J. W. Foulks, New York, N. Y. Whip-socket.....	325,562	Sept. 1	464	116	32	1104
Niemann, James P., Brooklyn, assignor to J. W. Foulks, New York, N. Y. Whip-socket.....	325,563	Sept. 1	465	116	32	1105
Niewerth, Hermann J. F., Hanover, Prussia, Germany. Metallic alloy or compound in producing the same.....	332,736	Dec. 22	2175		33	1406
Niggli, Emil, San Antonio, Tex. Door-check.....	310,844	Jan. 13	874	236	30	171
Nightingale, William O., McKeesport, Pa. Door for furnaces.....	312,578	Feb. 17	1536	419	30	650
Nightingale, William O., McKeesport, assignor to J. I. Kay, Pittsburg, Pa. Device for handling metal.....	319,926	June 9	1301	343	31	1294
Nightingale, John and J. Paterson, N. J. Let-off mechanism for looms.....	332,822	Dec. 22	2275	600	33	1425
Nightingale, Joseph. (See Nightingale, John and J.)						
Niles, Milton C., Oak Park, Ill. Rotary plow.....	314,260	Mar. 24	1649	437	30	1109
Niles, Milton C., Oak Park, Ill. Latch.....	323,063	July 28	2257	506	32	433
Niles, Milton C., Oak Park, Ill. Disk-harrow.....	328,054	Oct. 13	711	187	33	135
Niles, Sidney S., Chicago, Ill. Spring-hinge.....	317,410	May 5	649	166	31	641
Niles, Sidney S., Chicago, Ill. Spring-hinge.....	325,761	Sept. 8	734	184	32	1158
Niles Tool Works. (See Cullen and Sec, assignors.)						
Niles Tool Works. (See Reiss, George T., assignor.)						
Nilson, Nils. (See Abrams and Nilson.)						
Nimick, Frank B. (See Mallasee and Nimick.)						
Nimmo, Andrew and W., Boston, Mass. Line-finder for stenographers' use.....	332,410	Dec. 15	1703	446	33	1315
Nimmo, William. (See Nimmo, Andrew and W.)						
Nitz, Ernest, assignor of one-half to I. Lauter, New York, N. Y. Inhaler.....	311,776	Feb. 3	410	111	30	425
Nivola, Victor, New York, N. Y. Watch-case.....	325,433	Sept. 1	292	72	32	1071
Nixon, George, Jr., Philadelphia, Pa. Air and steam heater.....	325,962	Sept. 8	986	250	32	1204
Nixon, George W., Rockwood, assignor to himself and W. M. Nixon, Chattanooga, Tenn. Support for rock-drills.....	325,564	Sept. 1	465	116	32	1105
Nixon, John T., and D. N. Cress, Lexington, Miss. Cotton-gin.....	331,729	Dec. 1	730	183	33	1126
Nixon, Martin, et al. (See Feister, Henry P., assignor.)						
Nixon, Martin, et al. (See Feister, Henry P., assignor.)						
Nixon, William H., et al. (See Feister, Henry P., assignor.)						
Nixon, William H., et al. (See Feister, Henry P., assignor.)						
Nixon, William M. (See Nixon, George W., assignor.)						
Noar, Isaac, New York, N. Y. Necktie attachment.....	319,840	June 9	1183	312	31	1273
Noar, Isaac, New York, N. Y. Compound strip for neck-wear.....	320,366	June 16	1979	520	31	1423
Nobel, Ludvig, St. Petersburg, Russia. Liquid-fuel furnace.....	321,840	July 7	595	154	32	109

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Noble, Alfred H., <i>et al.</i> (See Otis, Samuel L., assignor.)						
Noble, George B., <i>et al.</i> (See Otis, Samuel L., assignor.)						
Noble, George H. (See Mayo, Virginus J., assignor.)						
Noble, James, Jr. (See Mullen and Noble.)						
Noble, John H. (See Inghram, John F., assignor.)						
Noble, John R., and J. D. Bullock, Ripley, Miss. Gag and muzzle	325,434	Sept. 1	293	72	32	1071
Noble, Joseph M., <i>et al.</i> (See Kelley, George W., assignor.)						
Noble, Leander, Sparta, Wis. Camera-stand	337,896	Oct. 6	500	130	33	89
Noble, Lewis H., <i>et al.</i> (See Kelley, George W., assignor.)						
Noble, Oscar W., Lynn, Mass. Stove-oven cover	323,896	Aug. 4	566	161	32	630
Noble, Robert S., West Bay City, Mich. Saab-fastener	314,974	Mar. 31	2639	698	30	1315
Nobles, John C., assignor to M. C. Nobles, Atlantic Highlands, N. J. Bluing-holder	313,015	Feb. 24	2116	577	30	763
Nobles, Mary C. (See Nobles, John C., assignor.)						
Noek, Edward B., Brooklyn, N. Y. Cuff and collar button	332,620	Dec. 15	1999	594	33	1367
Nodde, George G., New Berlin, assignor to A. C. Tonner, Canton, Ohio. Index for gear-cutting machines	316,811	Apr. 28	2532	662	31	479
Noel, J. Snider, Washington, D. C. Time dose-indicator for bottles	332,208	Dec. 8	1423	367	33	1260
Noel, Sylvester D. (See Seward and Noel.)						
Noel, William M., Warren, Pa. Gas-burner	313,834	Mar. 10	1062	281	30	986
Noessel, Sarah J., Corpus Christi, Tex. Combined milk-pan and curd or cheese mold	324,148	Aug. 11	999	275	32	716
Noftzger, Charles F., <i>et al.</i> (See Peck, James A., assignor.)						
Nolan, Francis. (See Reynolds, Thomas J., assignor.)						
Nolan, John H., Boston, Mass., assignor to Union Shuttle Company, Portland, Me. Loom-shuttle	323,438	Aug. 4	69	18	32	536
Nolan, Patrick, Chattanooga, Tenn. Railway-switch	330,509	Nov. 17	1459	390	33	799
Nolan, William F., <i>et al.</i> (See Powell, Richard J., assignor.)						
Nolan, William F. (See Powell and Nolan.)						
Nolden, Louis, and A. E. May, Beardstown, Ill. Feeder for roller-mills	326,447	Sept. 15	1634	427	32	1331
Nolen, Henry, assignor to J. Guedelhoefer, Indianapolis, Ind. Dumping-wagon	325,185	Aug. 25	2420	665	32	995
Nolen, Stephen A., Searcy, Ark. Saddle-stirrup	313,609	Mar. 10	778	304	30	931
Nolen, Stephen A., Searcy, Ark. Table	323,064	July 28	2259	596	32	433
Noppel, Emil, Philadelphia, Pa. Filter	322,333	Oct. 13	1068	277	33	209
Nordenfelt, Thorsten. (See Wittenström, Carl G., assignor.)						
Nordenfelt, Thorsten, Westminster, England. Torpedo	312,579	Feb. 17	1538	419	30	650
Nordin, Carl F. O., New York, N. Y. Shoe-maker pinchers	329,588	Nov. 3	923	58	33	548
Nordmann, Adolph J., San Francisco, Cal. Alarm and waking bed	325,437	Sept. 1	301	73	32	1073
Nordmann, Prosper. (See Lugin, Henry A., assignor.)						
Nordyke & Marmion Company. (See Marmion, Daniel W., assignor.)						
Nordyke & Marmion Company. (See Warrington, Jesse, assignor.)						
Norfolk, John R., Boston, Mass. Piston water-meter	319,992	June 16	1404	369	31	1319
Norling, Charles A., assignor of two-thirds to F. W. E. Best, St. Louis, Mo., and W. D. Van Blarcom, Alton, Ill. Machine for manufacturing tences	321,047	June 30	2845	757 758	31	1590
Normand, Augustin, Havre, Seine-Inférieure, France. Smoke-tube for tubular steam-boilers	329,848	Nov. 3	575	147	33	612
Normand, Joseph M., assignor of one-half to J. K. Mower, Springfield, Ohio. Pump	325,623	Sept. 1	539	136	32	1117
Norris, Charles E., Laconia, N. H., assignor of three-fourths to E. Vermilyea, Waterford, L. Vermilyea and A. Tabor, Cohoes, N. Y. Stocking	311,356	Jan. 27	1610	440	30	316
Norris, Charles E., Laconia, N. H., assignor of three-fourths to E. Vermilyea, Waterford, L. Vermilyea and A. Tabor, Cohoes, N. Y. Knitting-machine	311,357	Jan. 27	1611	441 442	30	317
Norris, Daniel W., Elgin, Ill. Attaching tops to vessels	311,777	Feb. 3	411	111	30	425
Norris, Daniel W., Elgin, Ill. Machine for forming glass jars, bottles, &c	314,975	Mar. 31	2640	699	30	1315
Norris, Daniel W., Elgin, Ill. Jar for butter, &c	319,841	June 9	1184	312	31	1273
Norris, George E. (See Hagan and Norris.)						
Norris, George E., Troy, assignor of one-half to J. K. P. Pine, Lansingburg, N. Y. Boom-tab-folding machine	322,551	July 21	1537	405 406	32	296
Norris, George E., and W. E. Hagan, Troy, N. Y. Machine for making match-blanks	321,444	July 7	39	11, 12 12	32	10
Norris, George E., and W. E. Hagan, Troy, assignors of one-third to J. K. P. Pine, Lansingburg, N. Y. Machine for making matches	321,445	July 7	45	13 14 15	32	11
Norris, George E., and W. E. Hagan, Troy, assignors of one-third to J. K. P. Pine, Lansingburg, N. Y. Match-making machine	322,737	Dec. 22	2175	574 575	33	1406
Norris, James L., administrator. (See Bandel, Wilhelm.)						
Norris, Jeremiah, Chelsea, Mass. Cushioned nippers and pliers for glass-cutters' use	331,812	Dec. 8	835	213	33	1155
Norris, William R., Fort Ann, N. Y. Machine for planing and polishing lumber	327,189	Sept. 29	2674	695	32	1531
North, Albert H., Bridgeport, Conn. Carving-fork guard	317,642	May 12	1222	324	31	755
North East Heading Company, <i>et al.</i> (See Peck, Henry S., assignor.)						
North Fairfield Plow Company. (See Felton, Walter S., assignor.)						
North, Jacob, Lincoln, Nebr. Machine for mending stereotype-plates	333,325	Dec. 29	2994	784	33	1560
North, John, Middletown, Conn. Machine for screw-threading bolts, &c	321,841	July 7	597	155 156	32	109
North & Judd Manufacturing Company. (See Herrick and McManus, assignors.)						
North, Owen E. (See Graham and North.)						
North, Ralph H., Philadelphia, Pa. Store-service apparatus	332,674	Dec. 15	2081	546	33	1381
North, Selden G., assignor to Transit Apparatus Company, (limited,) Philadelphia, Pa. Store-service apparatus	323,952	Aug. 11	730	206	32	669
North, Selden G., assignor to Transit Apparatus Company, (limited,) Philadelphia, Pa. Store-service apparatus	325,435	Sept. 1	294	72, 73	32	1071
North, Selden G., assignor to Transit Apparatus Company, (limited,) Philadelphia, Pa. Store-service apparatus	325,436	Sept. 1	295	73	32	1072
North Star Iron Works Company. (See Brewis, John J., assignor.)						
North Western Fertilizing Company. (See Gibson, Charles, assignor.)						
North Western Manufacturing and Car Company. (See Clarke, Willard A., assignor.)						
Northall, William H., Bridgeport, Conn. Vice	331,905	Dec. 8	978	253	33	1181
Northall, William H., Bridgeport, Conn. Bench-vice	332,209	Dec. 8	1424	367	33	1260
Northern, Mary E., Lanier, Tex. Dress-chart	325,216	Aug. 25	2463	677	32	1003
Northern, Thomas, Lineville, Ala. Combined sweep, cotton-chopper, and dirter	318,197	May 19	1696	454	31	851
Northrop, Albert, Pittsburg, Pa. Metallic ceiling	330,915	Nov. 24	1979	536	33	905
Northrop, Albert, Pittsburg, Pa. Metallic ceiling	330,916	Nov. 24	1980	535 536	33	905
Northrop, Albert, Pittsburg, Pa. Metallic ceiling	330,917	Nov. 24	1981	526	33	905
Northrop, George H., Huntington, Conn. Device for holding music, books, &c	312,153	Feb. 10	946	257	30	532
Northrop, James H., assignor of one-half to G. Draper & Son, Hopedale, Mass. Knot-tying apparatus for spooling-machines, &c	325,624	Sept. 1	541	137	32	1118

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Northrop, James H., and R. C. Fay, assignors to Hopedale Machine Company, Hopedale, Mass. Yarn-guide for spoolers.....	330,042	Nov. 10	836	915	33	669
Northrup, Anson D., Carbon, Iowa. Apparatus for feeding flour and other material.....	311,670	Feb. 3	276	76	30	401
Northrup, Joel G., Marcellus Falls, N. Y. Printing-machine.....	331,630	July 7	296	79, 80	32	57
Northrup, Joel G., Marcellus Falls, N. Y. Folding-machine.....	332,552	July 21	1539	{ 406 407 }	32	296
Northrup, William S. (See Polmateer, William A., assignor.)						
Northwood, Harry. (See Northwood, John, assignor.)						
Northwood, John, Brierly Hill, county of Stafford, England, assignor to H. Northwood, Bridgewater, Pa. Crimping device for glassware.....	337,406	Sept. 29	2256	772	32	1561
Norton, Byron, et al. (See Miller, Samuel L., assignor.)						
Norton, Charles H., Thomaston, Conn, assignor to Seth Thomas Clock Company, New York, N. Y. Clock-bell hammer.....	313,016	Feb. 24	2117	577	30	763
Norton, Edwin, et al. (See Jordan, Edmund, assignor.)						
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Street-lamp.....	315,957	Apr. 14	1364	353	31	252
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Soldering-machine.....	332,065	July 14	901	233	32	172
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Shipping-can.....	337,570	Oct. 6	101	23	33	10
Norton, Edwin, assignor to himself and O. W. Norton, Chicago, Ill. Shipping-can.....	337,580	Oct. 6	102	23	33	19
Norton, Francis L., assignor of one-half to M. S. Norton, New York, N. Y. Life or other boat.....	332,357	July 28	2669	{ 711 712 }	32	508
Norton, James W., and F. H. Rouse, assignors of one-third to J. C. Fuller, Kinsua, Pa. Apparatus for removing paraffine from oil-tanks.....	313,514	Mar. 10	658	171	30	908
Norton, John A., Brookline, assignor to E. E. Bean and L. C. Chase, trustees, Boston, Mass. Electric gas-lighting apparatus.....	315,055	Apr. 7	96	23	31	19
Norton, John A., Brookline, assignor to E. E. Bean and L. C. Chase, trustees, Boston, Mass. Electric gas-lighting apparatus.....	315,056	Apr. 7	100	24	31	20
Norton, John A., Brookline, assignor to E. E. Bean and L. C. Chase, trustees, Boston, Mass. Electric gas-lighting device.....	315,057	Apr. 7	101	24	31	20
Norton, Joseph D. and L. M., West Hampton, Mass. Ladder.....	310,218	Jan. 6	73	19	30	16
Norton, Joseph D. and L. M., Loudville, Mass. Bracket for ladders.....	324,782	Aug. 18	1879	516	32	888
Norton, Josephus, Sr., New Albany, Ind. Potato-planter.....	327,011	Sept. 29	2429	635	32	1489
Norton, Leonard M. (See Norton, Joseph D. and L. M.)						
Norton, Margaret S. (See Norton, Francis L., assignor.)						
Norton, Oliver W. (See Norton, Edwin, assignor.)						
Norton, Oliver W., et al. (See Jordan, Edmund, assignor.)						
Norton, Philo J., Bristol, N. Y. Car-coupling.....	324,263	Aug. 11	1181	321	32	750
Norton, Reuben C., assignor to Union Foundry and Machine Company, Rockford, Ill. Hay-carrier.....	328,802	Oct. 20	1697	442	33	325
Norton, Sereno E., Chicago, Ill. Hair-crimper.....	324,877	Aug. 25	2018	553	32	920
Norton, Sylvanus, Sinclairville, N. Y. Bridle-bit.....	313,442	Mar. 3	568	146	30	882
Norton, Winthrop, assignor of forty-nine and one-third one-hundredths to C. J. R. Ballard, Orland, and H. Mizner, Colusa County, Cal. Traveling thrasher and separator.....	315,651	Apr. 14	937	945	31	175
Norwalk Lock Company. (See Libby, Benjamin F., assignor.)						
Norwalk Lock Company. (See Taylor, Thomas, assignor.)						
Norwood, Francis E. (See Chain, Newton W., assignor)						
Norwood, John E., Sykesville, Md. Car-replacer.....	329,939	Nov. 10	700	179	33	643
Noteman, Alonzo. (See Desmond, John, assignor.)						
Noteman, Alonzo, Toledo, Ohio. Lubricator.....	325,356	Sept. 1	164	44	32	1046
Nott, Frederick G. (See Stevenson, David J., assignor.)						
Notter, Thomas W., Muskegon, Mich. Machine for bundling laths.....	330,387	June 16	1980	{ 520 521 }	31	1493
Nottingham, Henry E. (See McFarlan and Nottingham.)						
Nots, Josef F. (See Konrad, Franz, assignor.)						
Nougues, Jean, Fils aîné, Ogen, France. Canal and navigating the same.....	319,303	June 2	447	121	31	1132
Nource, James K. P., Franklin, assignor of two-thirds to C. Grant, Jr., Boston, Mass. Cash and parcel carrying system for store-service.....	311,513	Feb. 3	74	22, 23	30	363
Novcity Electric Company. (See Bacon, Murray, assignor.)						
Novelty Manufacturing Company. (See Lodge, Littleton W. T., assignor.)						
Novelty Tool Company. (See Wood, Frederick S., assignor.)						
Nowell, T. S., et al. (See Huse, Warren D., assignor.)						
Nowell, Thomas S., et al. (See Huse, Warren D., assignor.)						
Nowlin, William A., Mexia, Tex. Paint-brush.....	328,426	Oct. 13	1207	312	33	228
Noye Manufacturing Company, John T. (See Triller, Richard, assignor.)						
Noyes & Co., Joseph P. (See Howard, William C., assignor.)						
Noyes & Co., Joseph P. (See Noyes, Joseph P., assignor.)						
Noyes & Co., Joseph P. (See Noyes and Winans, assignors.)						
Noyes & Co., Joseph P. (See Winans, Thomas J., assignor.)						
Noyes, Edward F., Hamilton, Ontario, Canada. Compound tool-holder.....	328,707	Oct. 20	1564	413	33	303
Noyes, Joseph P., assignor to J. P. Noyes & Co., Binghamton, N. Y. Button.....	313,017	Feb. 24	2119	577	30	763
Noyes, Joseph P., assignor to J. P. Noyes & Co., Binghamton, N. Y. Button.....	323,359	July 28	2673	712	32	509
Noyes, Joseph P., and T. J. Winans, assignors to J. P. Noyes & Co., Binghamton, N. Y. Button.....	323,358	July 28	2671	712	32	509
Noyes, La Verne W., Chicago, Ill. Book-holder.....	311,514	Feb. 3	78	23	30	364
Noyes, La Verne W., Chicago, Ill. Book-holder.....	311,515	Feb. 3	80	23	30	364
Noyes, La Verne W., assignor to W. Deering, Chicago, Ill. Traction-wheel.....	323,581	Aug. 4	270	79	32	572
Noyes, La Verne W., assignor to W. Deering, Chicago, Ill. Harvesting-machine.....	327,581	Oct. 6	103	23, 24	33	19
Noyes, La Verne W., and T. O. Perry, assignors to W. Deering, Chicago, Ill. Harvester-reel.....	323,582	Aug. 4	271	79	32	572
Noyes, Roswell R., Darlington, Wis. Harness and neck-yoke for double teams.....	310,305	Jan. 6	193	52	30	37
Noyes, William O., Derry, N. H. Stone and potato fork.....	310,958	Jan. 20	1036	229	30	204
Nuebling, Louis W. (See Johnson and Nuebling.)						
Nugent, James, Philadelphia, Pa. Loom for weaving looped or terry fabrics.....	321,631	July 7	2829	80	32	57
Nugent, Richard C., Pittsburg, Pa. Screw-tap.....	330,999	Nov. 24	2087	565	33	925
Nugent, Richard C., assignor of one-half to L. Simpson, Pittsburg, Pa. Pipe-coupling.....	322,845	July 21	1934	511	32	367
Nugent, Thomas, New York, N. Y. Hot-air furnace.....	311,845	Feb. 3	493	135	30	441
Nugent, William, assignor of one-fourth to G. Chiswell, Paterson, N. J. Fire-cracker holder.....	329,068	Oct. 27	2094	544	33	402
Nugent, William, assignor to S. Van Winkle, trustee, Paterson, N. J. Machine for doubling and spinning silk.....	332,823	Dec. 22	2277	600	33	1225
Numseu, John W., et al. (See Knapp, George W., assignor.)						
Numseu, Nathaniel G., et al. (See Knapp, George W., assignor.)						
Numseu, William, et al. (See Knapp, George W., assignor.)						
Nunseu, William N., et al. (See Knapp, George W., assignor.)						
Nunamacker, By, De Soto, assignor to J. R. Thomson, Earlham, Iowa. Corn-planter.....	329,203	Oct. 27	2228	{ 592 593 }	33	437

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Nunamaker, John W., Kansas City, Mo. Car-coupling	312,316	Feb. 10	1035	284	30	547
Nunley, William, Newark, N. J. Tool-handle	310,359	Jan. 20	1038	221	30	205
Nusbeck, John, assignor to B. Olney, Rome, N. Y. Hose-coupling	328,427	Oct. 13	1208	312	33	229
Nutt, S. Prentiss, Natchez, Miss. Telephone-transmitter	319,927	June 9	1303	344	31	1294
Nutting, Adrain, assignor of nineteen-twentieths to B. D. Martin, J. C. O'Neal, R. C. Dial, J. M. Ellis, H. Wagner, F. L. Gazette, and T. E. Byrd, Greenville, Tex. Car-coupling	330,416	Nov. 17	1339	356	33	776
Nutting, George F., Randolph, Vt., P. S. Rich and J. Gardfield, Worcester, Mass. Corn-planter	330,798	Nov. 17	1322	491	33	860
Nutting, James F. (See Lester, James S., assignor.)						
Nutting, Luther M., Concord, N. H. Lathe	324,409	Aug. 18	1373	374	32	704
Nutting, Thomas B., Sr., Morristown, N. J., assignor to himself and T. B. Nutting, Jr., New York, N. Y. Car-coupling	320,388	June 16	1283	521	31	1424
Nye, Charles G., Syracuse, N. Y. Apparatus for automatically cutting off gas from burners	327,953	Oct. 6	592	154	33	106
Nye, George E., Bristol, Pa. Knitting-machine	316,907	Apr. 28	2578	698	31	505
Nye, George H., Chicago, Ill. Steam vacuum-pump	322,738	Dec. 22	2178	575	33	1407
Nye, Sherman R., Chicopee Falls, Mass. Horse hay-rake	316,290	Apr. 21	1805	474 475	31	340
Nye, Silas H., Union City, Mich. Door-hanger	319,113	June 2	222	58	31	1028
Nye, William C., Bradford, Pa. Implement for mixing and working mortar	324,336	Aug. 11	1272	345	32	767
Nye, William C., Bradford, Pa. Driven-wheel point	328,858	Oct. 20	1769	461	33	338
Nye, William E., Monmouth, Ill. Velocipede	321,910	July 7	685	178	32	124
Nyewander, David J., New Carlisle, Ohio. Double-acting force-pump	326,053	Sept. 8	1104	281 282	32	1226
O'Beirne, William H., assignor to Star Iron Tower Company, Fort Wayne, Ind. Suspended electric lights	314,976	Mar. 31	9643	699	30	1316
O'Bolger, Thomas, assignor to himself and J. Phelan, Rochester, N. Y. Manufacture of turned shoes	321,998	July 14	810	212	32	156
O'Bolan, Bernard M., Corning, Ohio. Candle-extinguisher	322,765	Nov. 3	457	115	33	501
O'Brien, John. (See Weaver, Samuel J., assignor.)						
O'Brien, John, assignor to W. Brookfield, New York, N. Y. Telegraph-insulator	316,812	Apr. 28	2534	662	31	479
O'Brien, John, assignor one-half to D. Thomas, Turner's Falls, Mass. Kiln for burning bricks	315,222	Apr. 14	1172	306	31	220
O'Brien, John, assignor to himself and F. R. Smith, Austin, Minn. Car-coupling	320,955	June 30	2721	722	31	1776
O'Brien, John, and S. J. Weaver, St. Louis, Mo. Feed-water heater	330,612	Nov. 17	1520	423	33	822
O'Brien, Martha A. (See O'Brien, Robert F., assignor.)						
O'Brien, Michel L., Joliet, Ill. Machine for straightening railway-rails	327,098	Sept. 29	2552	665	32	1510
O'Brien, Patrick B., New Haven, Conn. Thill-coupling	316,479	Apr. 28	2078	543	31	394
O'Brien, Robert F., assignor to M. A. O'Brien, Bonville, Mo. Device for use in soldering or making eaves-troughs	316,813	Apr. 28	2535	662	31	479
O'Brien, Thomas, assignor of one-half to W. H. Schmedlen, Coldwater, Mich. Two-wheeled vehicle	317,179	May 5	338	85	31	585
O'Brien, Timothy, assignor of one-half to D. A. Murray and J. Crowley, Boston, Mass. Barrel-connection	321,520	July 7	159	43	32	31
O'Brien, W. D., et al. (See Kock, Christian H., assignor.)						
O'Callaghan, John D. (See Dooly and O'Callaghan.)						
O'Connell, John C. (See Culbertson, O'Connell, and Gaston.)						
O'Connor, James H., Rome, N. Y. Spigot and faucet	326,448	Sept. 15	1635	428	32	1331
O'Connor, James T. (See O'Connor, Patrick, assignor.)						
O'Connor, John. (See Mason, Edward, assignor.)						
O'Connor, John F., New York, N. Y. Machine for testing canvas and other fabrics	314,465	Mar. 24	1920	513	30	1161
O'Connor, Michael E., Brooklyn, N. J. Pew-guard	331,533	Dec. 1	395	106	33	1089
O'Connor, Michael J., Louisville, Ky. Valveless engine	321,242	July 7	600	156	32	110
O'Connor, Patrick, Lawrence, Mass. Coal-sifter	317,574	May 12	871	223	31	620
O'Connor, Patrick, Mount Savage, Md. Steam-boiler	319,242	June 9	1185	313	31	1273
O'Connor, Patrick, assignor of one-half to J. T. O'Connor, Mount Savage, Md. Canal-boat propeller	315,159	Apr. 7	240	58, 59	31	44
O'Connor, Stephen, Bridgeport, Conn. Sewing-machine	331,997	Dec. 8	1110	289	33	1206
O'Connor, William H. (See Overman and O'Connor)						
O'Connor, William H., South Chicago, Ill. Band-pulley	319,983	June 16	1407	370	31	1390
O'Connor, William J., P. Walsh, and E. L. Martin, Kansas City, Mo. Beer-still	328,708	Oct. 20	1598	413	33	303
O'Donnell, George M., assignor of one-half to Western Improved Dredging Company, Pittsburgh, Pa. Dredge	324,479	Aug. 18	1464	401	32	809
O'Donnell, James. (See McHenry and O'Donnell.)						
O'Donnell, James H., Abington, Mass. Boot or shoe	324,423	Dec. 15	1723	452	33	1319
O'Donnell, Michael T. F., Boston, Mass. Flushing-valve for water-closets	311,026	Jan. 20	1128	308	30	223
O'Donnell, Timothy, Jr., Bradford, Pa. Safety-bar for railway fish-plates	315,536	Apr. 14	779	208	31	147
O'Flaherty, John, Lachine, Quebec, Canada. Medical compound	325,007	Aug. 25	2194		32	952
O'Gorman, Michael, Jersey City, N. J. Gear-cutting machine	330,510	Nov. 17	1461	391	33	799
O'Hara, Arthur, Hawley, Pa. Dumping-car	313,361	Mar. 3	457	117	30	861
O'Hara, Arthur, Hawley, Pa. Railway-switch	328,803	Oct. 20	1698	442	33	325
O'Hara, Daniel, Waltham, Mass. Watch-case	313,360	Mar. 3	455	116	30	861
O'Hara, Daniel, Waltham, Mass. Watch-case	316,814	Apr. 28	2536	663	31	479
O'Hara, Daniel, Waltham, Mass. Watch-case. (Reissue)	10,605	June 2	624	169	31	1167
O'Hara, Lewis, assignor of one-half to D. Donovan, Oswego, N. Y. Lifting-jack	317,951	May 12	1366	367	31	753
O'Hara, William P., Cincinnati, Ohio. Tag attachment for mail-bags	313,362	Mar. 3	458	117	30	861
O'Haver, E. Frank, Murphysborough, Ill. Car-coupling	323,720	Aug. 4	440	125	32	605
O'Haver, E. Frank, Murphysborough, Ill. Cotton-harvester	326,142	Sept. 15	1222	312 313	32	1255
O'Haver, E. Frank, Murphysborough, Ill. Car-coupling	323,147	Dec. 29	2747	721	33	1515
O'Herin, William, Parsons, Kans. Atmospheric brake	312,155	Feb. 10	933	260	30	333
O'Keefe, John, St. Louis, Mo. Heating-stove	325,857	Sept. 8	860	217 218	32	1121
O'Keefe, Warner F. H., Allegheny City, Pa. Burglar-alarm	311,027	Jan. 20	1129	308	30	223
O'Keefe, Warner F. H., Allegheny, Pa. Apparatus for carbureting gas	327,302	Sept. 29	2614	734	32	1557
O'Keefe, William, St. Louis, Mo. Rotary engine	326,054	Sept. 8	1106	292	32	1236
O'Lally, Patrick K., Boston, Mass. Shutter-worker	329,333	Oct. 27	2479	640	33	473
O'Malley, Patrick A., assignor to H. L. Bailey, Brooklyn, N. Y. Wire-splicer	312,520	Feb. 17	1541	420	30	651
O'Meara, Jeremiah, New York, N. Y. Valve	316,168	Apr. 21	1650	432	31	313
O'Meara, Timothy. (See Fryer, Robert M., assignor.)						
O'Neal, John C., et al. (See Nutting, Adrain, assignor.)						
O'Neill, Michael S., Rock Island, Ill. Draft-equalizer	322,197	July 14	1073	278	32	204
O'Neill, Edward F., Storm Lake, Iowa. Harmonic attachment for key-board musical instruments	316,908	Apr. 28	2621	608	31	506
O'Neill, Henry, Montreal, Quebec, Canada. Apparatus for operating railway-signal	320,671	Nov. 3	322	84	33	567

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O'Neill, James J., Boston, Mass. Messenger-signal and fire-alarm apparatus.....	313,610	Mar. 10	778	204	30	931
O'Neill, John, Milwaukee, Wis. Hoisting and conveying apparatus.....	311,671	Feb. 3	276	203	30	401
O'Neill, Joseph G., Nevada City, Cal. Window-shelf.....	318,200	May 19	1701	455	31	433
O'Neill, Michael, assignor of one-half to J. Hickey, Michigamme, Mich. Bedstead.....	312,007	Feb. 10	742	203	30	494
O'Neill, Robert, Leadville, Colo. Feed-water heater.....	327,583	Oct. 6	107	24	31	20
Oakes, Charles W., and E. B. Camp, Billings, Mont. Ter. Hot-air furnace.....	321,632	July 7	301	20	32	57
Oakes, F. S., et al. (See Slaght, Edwin, assignor.)						
Oakes, Francis J., Brooklyn, N. Y. Evaporating apparatus.....	319,611	June 9	879	232	31	1219
Oakland Roller Skate Company. (See Bailey, Fred A., assignor.)						
Oakley, Edward B., Madison, Wis. Car-coupling.....	314,049	Mar. 17	1376	339	30	1050
Oakley, John M., Brooklyn, assignor of one-half to J. Keating, New York, N. Y. Reversing gear for washing-machines.....	326,672	Sept. 22	1930	508	32	1392
Oakley, Julius S., Forestville, assignor to Bristol Brass and Clock Company, Bristol, Conn. Friction-pulley for lamp-chains.....	326,140	Sept. 15	1221	312	32	1254
Oakley, Thomas J., New York, N. Y. Wrapper for silks and other piece-goods.....	321,048	June 30	2448	758	31	1509
Oakley, Walter H. (See Beard and Oakley.)						
Oaks, William A. C., assignor to Goodell Company, Antrim, N. H. Fruit-paring machine.	315,158	Apr. 7	237	58	31	43
Oaks, William A. C., assignor to Goodell Company, Antrim, N. H. Machine for inserting rivets in knife-handles.....	326,141	Sept. 15	1221	312	32	1254
Oar, Sylvester, Kansas, Ill. Roll for rolling plowshares.....	330,611	Nov. 17	1540	423	33	822
Oberchain, William A., Bowling Green, Ky. Dip-net.....	333,326	Dec. 29	2995	764	33	1360
Ober, George H., Chagrin Falls, Ohio. Lathe for turning irregular forms.....	312,988	Feb. 17	1144	313	30	576
Ober, Thomas K., Philadelphia, Pa. Trimmer for sewing-machines.....	332,439	Aug. 4	71	19	32	536
Ober, William A., Nine Mile, Ind. Truck for harvesters.....	330,258	Nov. 10	1112	295	33	725
Ober, William Y., Lynn, Mass. Car-ventilator.....	332,739	Dec. 22	2160	575	33	1407
Obermaier, Julius O., Lambrecht, Bavaria, Germany. Centrifugal machine for treating textile fabrics, &c.....	329,204	Oct. 27	2291	583	33	439
Obermaier, Julius O., Lambrecht, Bavaria, Germany. Apparatus for dyeing, bleaching, &c.	332,740	Dec. 22	2181	576	33	1407
Obermayer, Simon, Cincinnati, Ohio. Compound for molders' facings.....	317,843	May 12	1223	31	755	
Oborn, Benjamin, Marion, Ohio. Hay elevator and carrier.....	314,872	Mar. 31	2495	662	30	1292
Oborn, Benjamin, Marion, Ohio. Hay-elevator.....	330,918	Nov. 24	1962	536	33	905
Orig, John, Newark, N. J., assignor to A. J. Hedges & Co., New York, N. Y. Ornamental chain.....	324,582	Aug. 18	1597	440	32	836
Oehner, Anton, New Haven, Conn. Coach-latch.....	323,719	Aug. 4	439	125	32	605
Ochwadt, Heinrich, Von der Heydt, near Saarbrücken-on-the-Saar, Prussia, Germany. Water-gate.....	318,224	May 19	1205	483	31	873
Odelga, Josef, Vienna, Austria-Hungary. Manufacture of fibrous material from wood for surgical-and other purposes.....	331,534	Dec. 1	396		33	1070
Odell, Benjamin C., Kingston, N. Y. Nursery-chair.....	313,881	Mar. 17	1156	301	30	1008
Odell, Benjamin C., Brooklyn, N. Y., assignor to D. L. Thompson, C. A. Perley, and G. Waite. Convertible chair.....	317,000	May 5	97	25	31	540
Odell, Benjamin C., Brooklyn, N. Y., assignor to D. L. Thompson, C. A. Perley, and G. Waite. Convertible chair.....	317,001	May 5	98	25	31	540
Odell, Benjamin C., Kingston, N. Y., assignor to Thompson, Perley & Waite, Baldwinsville, Mass. Nursery-chair.....	317,180	May 5	339	86	31	585
Odell, James R., et al. (See Slater, Warren G., assignor.)						
Odell, John B., Chicago, Ill. Battery-electrode.....	327,582	Oct. 6	106	94	33	20
Odell, Levi J., Fairbury, Ill. Corn-planter.....	319,994	June 16	1407	370	31	1320
Odell, Levi J., Fairbury, Ill. Check-rower attachment for corn-planters.....	326,449	Sept. 15	1635	428	32	1332
Odell, Salmon P., et al. (See Slater, Warren G., assignor.)						
Odenbaugh, Jefferson, Wharton, Ohio. Provision-safe.....	318,198	May 19	1696	454	31	852
Odgers, George W., Elizabeth, N. J. Boiler-tube cutter.....	325,438	Sept. 1	302	74	32	1073
Oehlmann, Emil, Berlin, Germany. Atomizer for ventilating apparatus.....	330,919	Nov. 24	1964	537	33	906
Oehrl, George F., Speers, Pa. Railway-gate.....	326,515	Sept. 15	1717	448	32	1347
Oehrie, Albert C. (See Oehrie, William E. and A. C.)						
Oehrie, William E. and A. C., assignors of one-half to H. A. Cables, Philadelphia, Pa. Spun chenille and manufacturing the same.....	332,938	Dec. 22	2440	645	33	1457
Oelert, Hermann, Vippee, near Cologne, Prussia, Germany. Apparatus for stopping steam-cylinders.....	314,466	Mar. 24	1922	514	30	1101
Oelschleger, Anton, Boston, Mass. Brush for cleaning chimneys.....	328,967	Oct. 27	1942	506	33	376
Oesterle, Louis, Chicago, Ill. Wind-instrument.....	329,940	Nov. 10	701	120	33	643
Oettel, Carl, Gohlis, near Leipzig, Saxony, Germany. Mechanical accordion.....	326,773	Sept. 22	2009	545	32	1421
Oettel, Carl, deceased, Gohlis, near Leipzig, Saxony, Germany; C. Karp, New York, N. Y., administrator. Mechanical accordion.....	329,408	Oct. 27	2593	669	33	493
Offutt, Joseph E., assignor to J. W. Thomas, Springfield, Ohio. Combined hay rake and tedder.....	312,650	Feb. 24	1625	447	30	676
Offutt, Joseph E., assignor to J. W. Thomas, Springfield, Ohio. Detachable hay rake and tedder.....	319,612	June 9	880	233	31	1219
Offutt, Joseph E., assignor to J. W. Thomas, Springfield, Ohio. Hay-tedder.....	390,085	June 16	1529	405	31	1343
Offutt, Joseph E., assignor to J. W. Thomas, Springfield, Ohio. Horse hay-rake.....	329,766	Nov. 3	457	115	33	591
Offutt, Joseph E., assignor to J. W. Thomas, Springfield, Ohio. Horse hay-rake.....	329,767	Nov. 3	459	116	33	591
Ogborn, Harrison, Richmond, Ind. Roller-skate.....	322,846	July 21	1935	511	32	368
Ogden, Ferris, Mansfield, Ohio. Grain-binder.....	312,154	Feb. 10	947	257	30	532
Ogden, John G., Chicago, Ill. Car-coupling.....	310,460	Jan. 6	378	105	30	74
Ogden, John G., Chicago, Ill. Railway-cable-bridge system.....	326,322	Sept. 15	1463	386	32	1303
Ogden, Nathan P., et al. (See Brintnall, Thomas M., assignor.)						
Ogilvie, James J., Staunton, Va. Folding fence-panel.....	319,995	June 16	1409	370	31	1320
Ogilvie, James J., Roscoe, Ohio. Fence-post.....	325,357	Sept. 1	165	44	32	1046
Ogilvy, David J., Cincinnati, Ohio. Rosin-oil.....	324,878	Aug. 25	2019	32	990	
Ogilvy, David J., Cincinnati, Ohio. Manufacture of rosin compounds.....	330,613	Nov. 17	1582	512	32	822
Ohio Molecular Telephone Company. (See Goodwin, Henry K., assignor.)						
Ohio Power and Light Company. (See Lynn, Mirabeau N., assignor.)						
Ohio Power and Light Company. (See Woolley, Leonidas G., assignor.)						
Ohl, Adolph, et al. (See McCarty, William F. M., assignor)						
Ohl, George A., Newark, N. J. Hand bending-tool.....	317,002	May 5	99	96	31	540

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Ohlen, James. (See Krieger, Andrew, assignor.)						
Ohr, Florence, Normal, Ill. Piano-stool	315,323	Apr. 7	466	118	31	85
Oil Well Supply Company. (See Birge, William H., assignor.)						
Okey, Joseph B., Indianapolis, Ind. Soil-pulverizer	331,318	Dec. 1	84	20	33	1014
Okey, Joseph B., assignor to D. F. Haley, J. B. Lyon, and T. Dalton, Sr., Indianapolis, Ind. Sofa-bed	324,563	Aug. 18	1599	440	32	836
Olander, Adolf. (See Schoen, Charles A., assignor.)						
Old, James, Pittsburg, Pa. Hand-carrying device for melons, &c	310,607	Jan. 13	576	159	30	116
Old, James, Allegheny, Pa. Sliding-gate valve	332,939	Dec. 23	2441	646	33	1457
Oldershaw, Hiram, et al. (See Walter, Henry C., assignor.)						
Oldershaw, John B., Baltimore, Md. Heating-stove	329,069	Oct. 27	2095	544	33	462
Oldham, John C. (See Waters, Frank M., assignor.)						
Oldham, Thomas, Leipsic, Ind. Implement for molding and necking bullets	319,304	June 2	448	121	31	1133
O'dham, Walter, Manchester, county of Lancaster, England. Filtering apparatus	330,145	Nov. 10	979	255	33	699
Olds, Alonzo F., assignor to Equity Gas Saving Company, New York, N. Y. Gas-regulator	331,000	Nov. 24	2088	565	33	926
Olds, Henry G. (See Anderson, Peter, assignor.)						
Olds, John D., Fort Wayne, Ind. Steam-engine valve-gear	319,114	June 2	223	58, 59	31	1086
Olds, John D., Fort Wayne, Ind. Balanced slide-valve	319,115	June 2	226	59	31	1089
Olds, John D., Fort Wayne, Ind. Balanced slide-valve	332,279	Dec. 15	1521	398 399	33	1284
Oleson, Timan, Hawley, assignor of one-half to O. A. Olson, Minneapolis, Minn. Piano-volin	314,540	Mar. 24	2032	542	30	1179
Olin, Charles J., Piqua, Ohio. Adjustable staking and jewelry tool	313,363	Mar. 3	459	118	30	861
Olin, William F. (See Fecher and Olin.)						
Olin, William F., assignor to W. Deering, Chicago, Ill. Self-binding harvester	326,884	Sept. 22	2258	589 590 591	32	1451
Oliphant, Samuel C., assignor to himself, S. M. Pickler, and W. H. Johnson, Novinger, Mo. Gold-separator	331,649	Dec. 1	610	151	33	1104
Oliver, Alfred. (See Langham, Thomas, assignor.)						
Oliver Brothers & Phillips. (See Campbell, Irvin K., assignor.)						
Oliver Brothers & Phillips. (See Sergeant, Raphael, assignor.)						
Oliver, David B., Pittsburg, Pa. Pile for sheet-iron	310,711	Jan. 13	709	193	30	141
Oliver, Doctor F., Huntsville, Mo. Hay-rake	330,727	Nov. 17	1732	467	33	853
Oliver, Elam A., Belleville, Wis. Bolt-making device	311,083	Jan. 20	1217	334	30	239
Oliver, Elam A., Belleville, Wis. Compound metal-working machine	322,847	July 21	1937	512	32	368
Oliver, George, Charlotte, N. C. Oil-press mat	320,442	June 16	2054	639	31	1436
Oliver, George, assignor to Charlotte Oil Company, Charlotte, N. C. Oil-press cloth	317,003	May 5	100	96	31	541
Oliver, Henry J., San Francisco, Cal. Cut-off valve for engines	323,065	July 28	2260	597	32	433
Oliver, Henry W., Rome, N. Y. Photographic washing apparatus	323,721	Aug. 4	441	125	32	605
Oliver, Henry W., New York, N. Y. Dial for time-pieces	329,849	Nov. 3	576	147	33	613
Oliver, Henry W., Jr. (See Withrow, Oliver, Wilcox, and Tener.)						
Oliver, Henry W., Jr., et al. (See Dods, John C., assignor.)						
Oliver, Henry W., Jr., et al. (See Schulze-Berge, Hermann, assignor.)						
Oliver, Henry W., Jr., et al. (See Wilcox, John F., assignor.)						
Oliver, James B., Sewickley, Pa. Envelope for mailing barbed articles	313,100	Mar. 3	81	21	30	792
Oliver, Paul. (See McCool, William A., assignor.)						
Oliver, William. (See Kamerer, John H., assignor.)						
Oliver, William W. (See Svensson, Chas. A., assignor.)						
Olmstead, Albert P., Troy, N. Y. Combined hasp and bolt	319,014	June 2	102	28	31	1067
Olmstead, David B., New York, assignor to himself, and T. Summerville, Brooklyn, N. Y. Curtain-pole knob	310,712	Jan. 13	710	193	30	141
Olmsted, Perry, Dixon, Cal. Belt-winder for thrashing-machines	321,521	July 7	160	43	32	31
Olney, Burt. (See Nusbeck, John, assignor.)						
Olin, Granville B., Atlantic, Iowa. Bee-hive	325,268	Sept. 1	48	14	32	1025
Olp, Lambert L., Mount Morris, N. Y. Harvester-reel	319,116	June 2	228	60	31	1089
Olsen, Adolph, assignor of one-half to A. Haberstroh, F. A. Ludwig, and C. J. Olsen, Boston, Mass. Ventilator	318,494	May 26	2087	564	31	934
Olsen, Carl, Long Island City, N. Y. Invalid-bed	318,199	May 19	1699	455	31	853
Olsen, Charles J., et al. (See Olsen, Adolph, assignor.)						
Olsen, Christian, Chicago, Ill. Tank	322,746	July 21	1800	475	32	343
Olsen, Johan L. W., Copenhagen, Denmark. Bake-oven	321,239	June 30	3093	822	31	1643
Olsen, Johan L. W., Copenhagen, Denmark. Bake-oven	324,721	Aug. 18	1793	495	32	672
Olsen, Lars A., San Francisco, Cal. Feed-water heater	332,624	Dec. 22	2278	601	33	1426
Olson, Gustav A., Albert Lea, Minn. Knitting attachment	330,728	Nov. 17	1733	467 468	33	853
Olson, Jennie S., Houston, Minn. Tailor's chart for cutting garments	325,358	Sept. 1	166	45	32	1046
Olson, Niels, Perth Amboy, N. J. Safety-vent for beer-kegs	316,644	Apr. 28	2220	600	31	433
Olson, Oley A. (See Oleson, Timan, assignor.)						
Oltmanns, Diedrich, South Bend, Ind. Automatic wagon-brake	323,521	Aug. 4	182	53	32	556
Olund, Emil, Hudson, Wis. Barrel-hoop machine	330,259	Nov. 10	1114	295 296	33	725
Omega Binder Company. (See Hooton, Marsena M., assignor.)						
Omensetter, Robert L., Philadelphia, Pa. Window for street-railway cars	323,360	July 28	2674	712 713	32	509
Onderdonk, John P., Philadelphia, Pa. Making paper bags	318,016	May 19	1465	392	31	806
Onderdonk, John P., Philadelphia, Pa. Stock for fire-arms	319,613	June 9	882	223	31	1219
Onderdonk, John P., Philadelphia, Pa. Paper bag	332,260	Dec. 15	1525	399	33	1285
Opdyke, Stacy B., New Haven, Conn. Eyeglass-frame	311,602	Feb. 3	193	55	30	385
Opdyke, Stacy B., New Haven, Conn. Automatic bottle-stopper	321,447	July 7	51	15	32	12
Opdyke, Stacy B., New Haven, Conn. Bottle-stopper	321,448	July 7	53	16	32	12
Opdyke, Stacy B., New Haven, Conn. Nozzle for bottles	332,281	Dec. 15	1525	400	33	1285
Oppenheimer, Elias, New York, N. Y. Stocking or sleeve supporter	318,201	May 19	1702	456	31	854
Oppenheimer, James, Shenandoah, Iowa, assignor to Square Hole Auger Company, Wooster, Ohio. Mortising machine. (Reissue)	10,655	Oct. 27	2626	678	33	496
Oram, Frederick, Ilion, N. Y. Carriage-wheel	313,364	Mar. 3	460	118	30	862
Oram, John M., Boston, Mass. Time-signal transmitting system	328,055	Oct. 13	713	187	33	135
Orbits, Hermon H., and M. Willet, Detroit, Mich. Faucet	313,443	Mar. 3	569	147	30	862
Orchard, Henry, assignor of one-half to A. V. Venell, Peoria, Ill. Hay-stacker	320,443	June 16	2055	539	31	1436
Orcutt, Fayette H., Worcester, Mass. Guard-rail lock for railways	316,221	Apr. 21	1807	475	31	340
Orcutt, George H., et al. (See Belmiling, Henry, assignor.)						
Orcutt, William D., assignor of one-half to J. H. Busell, Boston, Mass. Rotary cutter	311,201	Jan. 27	1396	379	30	275
Ord, William, Brooklyn, Ohio. Boiler-cleaning apparatus	311,672	Feb. 3	277	77	30	401

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Ordnung, John G. (See Baumgartner, Alexander, assignor.)						
Ordway, Albert H., Melrose, Mass. Rocking-chair	329,479	Nov. 3	73	20	31	519
Ordway, Albert H., Melrose, Mass. Rocking-chair	329,480	Nov. 3	74	20	33	519
Ordway, Ira J., Chicago, Ill. Ventilating buildings	326,055	Sept. 8	1108	253	32	1227
Ordway, John M., Boston, Mass. Non-conducting composition for refrigerators, &c.	310,461	Jan. 6	379	105	30	74
Ordway, John M., Boston, assignor of one-half to E. E. Waters, Sandwich, Mass. Obtaining substitute for albumen from fish-roe	319,503	June 9	725		31	1101
Orendorff, George D., Batavia, N. Y. Protractor	330,799	Nov. 17	1824	491	33	609
Orford, Richard, St. Joseph, Mich. Washing-machine	330,848	Nov. 17	1887	510	33	680
Orlikowski, Frank, and C. Yanker, Cleveland, Ohio. Wagon-tongue support	321,633	July 7	302	80	32	58
Orloff, Vasalli P., Moscow, Russia. Steam-boiler	332,357	Dec. 15	1634	429	33	1304
Ormsby Sash Holder Company. (See Ormsby, William, assignor.)						
Ormsby, William, Boston, Mass., assignor to Ormsby Sash Holder Company, Portland, Me. Sash-balance	329,409	Oct. 27	2595	669	33	493
Ormsby, William J., Cincinnati, Ohio. Loose-pulley lubricator	310,536	Jan. 6	480	134	30	92
Ormsby, William J., Cincinnati, Ohio. Loose-pulley lubricator	312,857	Feb. 24	1943	532	30	731
Ormsby, William J., Cincinnati, Ohio. Loose-pulley lubricator	333,552	Dec. 15	1908	499	33	1350
Orne, Charles P., Cambridge, Mass. Galvanic-battery porous cup	311,516	Feb. 3	62	24	30	364
Orne, Charles P., Cambridge, Mass. Galvanic battery	321,446	July 7	51	15	32	12
Orr, J. Allison, and H. Selvard, assignors to themselves, S. H. Kutz, J. Hahn, F. P. Geisler, A. and M. B. McKnight, and Z. W. Bowen, Reading, Pa. Parlor heating-stove	311,139	Jan. 20	1293	355	30	253
Orr, J. Allison, and H. Selvard, assignors to themselves, S. H. Kutz, J. Hahn, F. P. Geisler, A. and M. B. McKnight, and Z. W. Bowen, Reading, Pa. Parlor heating-stove	311,140	Jan. 20	1294	356	30	253
Orr, Charles A. (See Connitt, Matthew F., assignor.)						
Orr, James, et al. (See Rohme, James H., assignor.)						
Orr, Levi R., Waterman, Ill. Wire-fence latch	311,603	Feb. 3	194	55	30	385
Orr, S. Alexander. (See McCorkindale, Duncan L., assignor.)						
Orr, William, Trenton, N. J. Wire-cloth lashing	320,163	June 16	1630	434	31	1360
Orr, William H., assignor to himself and J. Rotramel, Carlisle, Ind. Wall of buildings and other structures	312,375	Feb. 17	1256	346	30	507
Orrick, Nicholas C., Canton, Miss. Cotton-scraper	327,012	Sept. 29	2430	635	32	1489
Ortlepp, Friederich, assignor to J. S. Kaliske, New York, N. Y. Machine for making heels for ladies' shoes	320,164	June 16	1632	434	31	1360
Ortlip, Charles H. (See Tront and Ortlip.)						
Ortman, Theodore L. E., et al. (See Ebel, John V., assignor.)						
Ortmayer, Andrew, Chicago, Ill. Fastening for sweat-pads for horse-collars	331,813	Dec. 8	836	213	33	1155
Orton, Benjamin F., East Saginaw, Mich. Regulator for dynamo-electric machines	311,141	Jan. 20	1226	357	30	253
Orton, Benjamin F., East Saginaw, Mich. Commutator for dynamo-electric machines	323,361	July 28	2676	713	32	510
Orton, Benjamin F., East Saginaw, Mich. Armature for dynamo-electric machines and electric motors	323,362	July 28	2679	713	32	510
Orton, Benjamin F., East Saginaw, Mich. Armature for dynamo-electric machines	323,363	July 28	2678	714	32	510
Orton, Benjamin F., East Saginaw, Mich. Armature for dynamo-electric machines and motors	331,155	Nov. 24	2287	622	33	964
Orton, Benjamin F., East Saginaw, Mich. Regulator for dynamo-electric machines	331,814	Dec. 8	837	214	33	1155
Orton, Benjamin F., East Saginaw, Mich. Dynamo-electric machine	331,815	Dec. 8	839	214	33	1155
Orton, Benjamin F., East Saginaw, Mich. Regulator for dynamo-electric machines	331,816	Dec. 8	845	210	33	1156
Orton, Benjamin F., East Saginaw, Mich. Tower	331,817	Dec. 8	849	217	33	1156
Orton, Benjamin F., East Saginaw, Mich. Dynamo-electric machine or motor	331,818	Dec. 8	850	218	33	1157
Orton, Gerrit V., assignor to himself, H. P. and S. W. Gregory, San Francisco, Cal. Planing-machine	331,730	Dec. 1	731	113	33	1127
Orvis, Orel D., New York, N. Y. Smoke-consuming furnace	313,611	Mar. 10	721	205	30	931
Orvis, Orel D. and N. B. Adams, New York, N. Y. Cable railway	323,593	Aug. 4	275	80	32	572
Orvis, Orland D., Chicago, Ill. Hydrocarbon-furnace	313,101	Mar. 3	82	21	30	792
Orwig, Jacob H. (See Hartmann, Joseph, assignor.)						
Osborn, Alexander C., Clarksburg, W. Va. Post-hole auger	310,608	Jan. 13	576	159	30	116
Osborn, Bennet, Newark, N. J. Paper box	333,246	Dec. 29	2853	754	33	1540
Osborn & Cheesman Company. (See Underwood, Judson B., assignor.)						
Osborn, Edward L., Rose, N. Y. Machine for double-seaming tin roofing	322,848	July 21	1938	512	32	368
Osborn, Francis M., Port Chester, N. Y. Shoe-blackening box	330,146	Nov. 10	980	255	33	699
Osborn, Frank S., East Sharon, assignor to himself and G. M. Corwin, Shinglehouse, Pa. Rein-holder	330,277	June 16	1789	476	31	1389
Osborn, Frederick G., Newark, N. J. Roller-skate	327,819	Oct. 6	410	106	33	72
Osborn, James F., Jeffersonville, Ind., assignor of one-half to J. L. Chilton, D. A. and J. G. Guthrie, Louisville, Ky. Trunk-top	328,602	Oct. 20	1441	375	33	277
Osborn, James F., Jeffersonville, Ind., assignor of one-half to J. L. Chilton, D. A. and J. G. Guthrie, Louisville, Ky. Veneer trunk-top	328,603	Oct. 20	1442	375	33	277
Osborn, James F., Jeffersonville, Ind., assignor of one-half to J. L. Chilton, D. A. and J. G. Guthrie, Louisville, Ky. Veneer trunk-top	328,604	Oct. 20	1443	376	33	278
Osborn, Job, Raleigh, N. C. Tobacco-curing house	332,621	Dec. 15	2000	524	33	1368
Osborn, John H., Evansville, Ind. Thread-separator and traveler-cleaner	326,236	Sept. 15	1359	351	32	1280
Osborn, John H., assignor to Leader Sewing Machine Company, Cleveland, Ohio. Sewing-machine shuttle	321,381	June 30	3270	874	31	1679
Osborn, Luko W. (See Avery and Osborn.)						
Osborn, Walter A., and D. M. Estey, Owosso, Mich. Detachable table-leg	326,589	Sept. 22	1805	473	32	1371
Osborn, Walter A., and D. M. Estey, Owosso, Mich. Caster	331,911	Nov. 24	2350	644	33	978
Osborn, Walter J. S., and J. Madden, Shelby, Ohio. Shaft-liner	323,626	Aug. 4	567	161	32	630
Osborne and Company, D. M. (See Butterfield, William, assignor.)						
Osborne & Cheesman Company. (See Durand, David L., assignor.)						
Osborne & Co., D. M. (See Butterfield, William, assignor.)						
Osborne, Henry F., Newark, N. J. Punching and cutting pliers	317,181	May 5	340	86	31	585
Osborne, Henry F., Newark, N. J. Nut-pliers	321,133	June 30	2661	784	31	1619
Osborne, Henry F., Newark, N. J. Skate-fastener	332,424	Dec. 15	1794	452	33	1319
Osborne, James C., Erie, Pa. Indicator for feed-screws of engine-lathes	313,612	Mar. 10	723	206	30	932
Osborne, John H., Union City, Ind. Neck-yoke	312,688	Feb. 24	1944	532	30	731
Osborne, John H., Philadelphia, Pa. Knitting-machine	316,563	Apr. 28	2177	573	31	414

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Osborne, John W., Washington, D. C., assignor to W. H. Forbes, Boston, Mass. Inking mechanism for printing machines.	317,844	May 12	1223	324	31	755
Osborne, Leonard E., Leominster, Mass. Fire-kindler.	320,070	Oct. 27	2097	544	31	402
Osborne, Wilbur F., Ansonia, Conn. Suspender-buckle.	332,425	Dec. 15	1725	452	33	1319
Osenbrück, August, Hemelingen, Prussia, Germany. Refrigerating-machine.	311,028	Jan. 20	1130	308	30	223
Osford, Joseph, Worthington, Minn. Car-coupling.	317,182	May 5	341	309	31	585
Osgood, Charles E., and L. F. Longmore, Lowell, assignors, by mesne assignments, to said Longmore and G. A. Ryan, Chelmsford, Mass. Paper-holder.	320,956	June 30	2722	723	31	1576
Osgood, Edwin P., Malden, Mass. Store-service apparatus.	312,752	Feb. 24	1766	446	30	701
Osgood, Edwin P., Malden, Mass. Store-service apparatus.	312,753	Feb. 24	1767	486	30	701
Osgood, Enoch, Washington, D. C. Reversible motor-wheel.	332,103	Dec. 8	1275	331	33	1234
Osgood, George A. (See Paige, John C., assignor.)						
Osgood, Isaac, Chicago, Ill. Rack for refrigerators.	317,945	May 12	1226	324	31	756
Osgood, J. Lester, assignor to W. F. Wendi, Buffalo, N. Y. Forge.	311,358	Jan. 27	1615	442	30	317
Osgood, Joseph H., Peabody, Mass. Mold for making printers' inking-rollers.	332,247	Oct. 13	958	249	33	182
Osgood, Leonard S., Stockton, Utah Terr. Ore-concentrating table.	324,783	Aug. 18	1280	517	32	888
Osgood, Ralph R., Albany, N. Y. Excavator.	313,613	Mar. 10	725	206	30	932
Osgood, Ralph R., Albany, N. Y. Dumping-scow.	330,043	Nov. 10	837	215	33	669
Ostensen, Einer, Highlandville, Iowa. Fertilizer-distributor.	311,444	Jan. 27	1728	471	30	338
Ostermayer, Eugen, Bieberath, and M. Dittmar, Königsberg, Germany. Producing chloridine double combinations from pyridine and chinoline bases.	332,358	Dec. 15	1635		33	1304
Ostrander, Charles H., Plattsburg, N. Y. Garment-sleeve.	332,553	Dec. 15	1609	499	33	1330
Ostrander, William H., Newburg, N. Y. Spring-motor.	323,197	July 28	2441	647	32	468
Ostrom, Freeland W., Bridgeport, Conn., assignor to Wheeler & Wilson Manufacturing Company. Button-hole sewing machine.	320,957	June 30	2723	723	31	1576
Ostrom, Freeland W., Bridgeport, Conn., assignor to Wheeler & Wilson Manufacturing Company. Device for cutting and centering button-holes.	320,958	June 30	2731	726	31	1578
Ostrout, George, Montreal, Quebec, Canada. Ore-stamping machine.	328,153	Oct. 13	839	219	33	159
Oswald, Louis, Newark, N. J. Catch for belts.	327,407	Sept. 29	2956	772	32	1581
Otis, Anson M., York, Neb. Water-regulator for windmills.	327,190	Sept. 29	2677	695	32	1532
Otis, Charles G., Brooklyn, N. Y. Chair for elevator guide-posts.	310,713	Jan. 13	710	194	30	141
Otis, Elisha W., Chelsea, Mass. Skate-roller.	315,823	Apr. 14	1173	307	31	220
Otis, Elisha W., Chelsea, assignor to W. G. Bell, Boston, Mass. Wheel.	325,439	Sept. 1	303	74	32	1073
Otis, Harrison G., New York, N. Y. Plating-machine.	320,278	June 16	1730	476	31	1388
Otis, Samuel L., Birmingham, Conn. Button and disk trimming machine.	313,940	Mar. 17	1259	323	30	1027
Otis, Samuel L., Birmingham, Conn. Work-holder.	322,312	July 14	1208	318	32	229
Otis, Samuel L., Birmingham, assignor to A. H. and G. E. Noble, New Milford, Conn. Button-lathe.	317,183	May 5	343	26, 87	31	585
Otis, Spencer. (See Mertsheimer and Otis.)						
Otos, Berten T., Willmar, Minn. Animal-trap.	311,778	Feb. 3	412	112	30	425
Ott, Charles G. (See Eichmann and Ott.)						
Ott, George F., Philadelphia, Pa. Stuffing-box for piston-rods of ice-machines, &c.	332,675	Dec. 15	2083	547	33	1382
Ott, Peter. (See Lippy, David, assignor.)						
Ott, Peter. (See Lippy and Ott.)						
Ott, William, Chicago, Ill. Sofa-bed.	320,676	June 23	2266	625	31	1502
Otte, Gilbert, Apeldoorn, Holland. Indicator for railway-switches.	311,840	Feb. 3	494	135	30	441
Otterson, Thomas G., and C. C. Voorhies, Woodbury, N. J. Glass-can cap.	313,229	Mar. 3	288	73	30	829
Otto, Gustav, Jersey City, N. J. Connector for electric batteries.	324,410	Aug. 18	1377	375	32	794
Otto, Robert, Owego, N. Y. Device for securing lids to burial-caskets.	322,471	July 21	1434	376	32	277
Otto, William A., Cedar Rapids, Iowa. Belt-gearing.	318,577	May 26	2219	592	31	955
Otto, William A., and B. A. Metcalf, Cedar Rapids, Iowa. Combined belt-shifter and brake.	317,411	May 5	653	166	31	641
Oulton, George, Liverpool, county of Lancaster, England. Soldering-iron.	327,896	Oct. 6	501	130	33	90
Outram, John, Easton, Md. Attachment for grain-drill teeth.	323,973	Aug. 11	737	206	32	669
Over, Ewald, Indianapolis, Ind. Nut-guard.	325,762	Sept. 8	737	184	32	1158
Overbagh, Addison, Coxsackie Station, N. Y. Device for measuring the strain on fence-wires.	310,845	Jan. 13	875	236	30	171
Overell, Joseph M., assignor of one-fourth to G. R. Pene, Evansville, Ind. Nail.	313,681	Mar. 10	867	226	30	949
Overend, Andrew, Philadelphia, Pa., assignor to C. B. Cottrell, Westerly, R. I. Receiving-table for printing presses.	312,217	Feb. 10	1037	284	30	547
Overin, George D., and O. Meyers, New York, N. Y. Combination-table.	321,747	July 7	450	130	32	84
Overman, Albert H., Chicopee, Mass. Rubber tire for wheels.	315,537	Apr. 14	790	209	31	147
Overman, Albert H., Chicopee, Mass. Seat for velocipedes.	329,550	Nov. 3	578	148	33	613
Overman, Albert H., Chicopee, Mass. Pedal for velocipedes.	320,831	Nov. 3	580	148	33	613
Overman, Albert H., Chicopee, Mass. Saddle for velocipedes.	331,001	Nov. 24	2091	565	33	926
Overman, Albert H., and C. F. Hadley, assignors to Overman Wheel Company, Chicopee, Mass. Steering device for tricycles.	313,018	Feb. 24	2120	578	30	763
Overman, Bernard, assignor to himself and W. M. Whyte, Washington, D. C. Skylight.	326,056	Sept. 8	1109	383	32	1227
Overman, Bernard, and W. H. O'Connor; said O'Connor assignor to W. M. Whyte, Washington, D. C. Skylight.	315,958	Apr. 14	1366	353	31	253
Overman Wheel Company. (See Fisher, Alvin L., assignor.)						
Overman Wheel Company. (See Hadley, Charles F., assignor.)						
Overman Wheel Company. (See Hill, Sylvester B., assignor.)						
Overman Wheel Company. (See Overman and Hadley, assignors.)						
Overman Wheel Company. (See Warwick, Thomas, assignor.)						
Overmeyer, John B. (See Freeman and Overmeyer.)						
Oviatt, Solomon E., Detroit, Mich., assignor of one-half to J. J. Baird. Wagon.	331,234	Nov. 24	2445	661	33	990
Owcn, Donus J., Lynn, Pa. Side-bar buggy.	318,017	May 19	1466	392	31	809
Owcn, Frederick D., Washington, D. C. Decreasing the frictional resistance to vessels.	312,500	Feb. 17	1469	395	30	631
Owcn, Frederick D., Washington, D. C. Bicycle.	323,066	July 28	2262	597	32	434
Owcn, George D., and R. Dyson, Rotherham, county of York, England. Manufacture of wheels.	310,846	Jan. 13	875	236	30	171
Owcn, Henry A. (See Hussar, William J., assignor.)						
Owcn, Horbert S., Washington, D. C. Velocipede.	330,346	Nov. 10	1233	329	33	748
Owcn, James D., Silvana, Pa. Vehicle-spring.	331,430	Dec. 1	252	67	33	1043
Owcn, John W., and W. H. Onarga, Ill., and A. C. Boswell, Fowler, Ind. Stove.	312,651	Feb. 24	1627	448	30	676
Owcn, Joseph, Dunellen, N. J. Axle-straightener.	328,137	Oct. 13	817	213	33	155

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Owen, Reuben. (See Culver, Darius M., assignor.)						
Owen, Richard W., Chicago, Ill. Check-rein hook	329,852	Nov. 3	581	148	33	613
Owen, Silas R., St. Joseph, Mo. Cutting apparatus for harvesting-machines	323,880	Aug. 4	639	180	32	644
Owen, Walter G., New York, N. Y. Sight for fire-arms	333,024	Dec. 22	2572	676	33	1479
Owen, William H. (See Owen and Boswell.)						
Owen, William O., Jr., Lynchburg, Va. Rotary steam-engine	330,347	Nov. 10	1237	329 330	33	749
Owens, Jesse P., et al. (See Vaughan, Elbert J., assignor.)						
Owens, John A., McDonald, Ga. Drag-saw	320,066	June 16	1530	405	31	1343
Owens, M. T. (See Helton, John W., assignor.)						
Owens, Samuel T., Pittsburg, Pa. Metallurgical furnace	321,311	June 30	3180	247 248	31	1661
Owens, Samuel T., Pittsburg, Pa. Furnace for steam-boilers	330,147	Nov. 10	981	255 256	33	699
Owens, Sidney H., Churchland, Va. Telegraph	322,392	July 14	1320	343	32	251
Owsley, Heaton, and G. W. Marble, Chicago, Ill. Roller-skate	325,510	Oct. 20	1306	339	33	254
Oxley, Charles F., Brooklyn, N. Y. Friction-slide	313,444	Mar. 3	569	147	30	883
Pabst, Charles, Philadelphia, Pa. Lamp	321,523	July 7	161	43	32	32
Pabst, Charles, Philadelphia, Pa. Lamp	321,634	July 7	302	81	32	58
Pace, James F., Simsborough, La. Vehicle-shaft support	327,191	Sept. 29	2678	696	32	1532
Pace, Richard R., Lincolnton, Ala. Automatic vehicle-brake	317,846	May 19	1227	325	31	756
Pace, Robert G., Danville, Va. Stock-car	313,750	Mar. 10	982	253	30	964
Pace, William L., Tom's Creek, Tenn. Churn	311,359	Jan. 27	1618	443	30	318
Pacey, John T., assignor of one-half to A. Ewing, Philadelphia, Pa. Device for automatically opening and closing batches of elevators	325,858	Sept. 8	882	217	32	1121
Paciorkowski, Anthony, assignor of two-thirds to K. Paciorkowski, 1st and 2d, Troy, N. Y. Lock	326,673	Sept. 22	1932	508	32	1393
Paciorkowski, Kazimierz, 1st and 2d. (See Paciorkowski, Anthony, assignor.)						
Pack, Armleder F. (See French and Parvin, assignors.)						
Packard, Allen O., Stevens Point, Wis. Machine for sprinkling potato-vines with a poisonous solution	322,747	July 21	1201	475	32	343
Packard, Cullen C., Kalamazoo, Mich. Photographic shutter	316,584	Apr. 22	2178	573	31	414
Packard, Morrill N., Baltimore, Md. Balanced valve	325,963	Sept. 8	987	251	32	1205
Packard, Morrill N., Baltimore, Md. Valve-gear	325,964	Sept. 8	988	251	32	1205
Packer, Alfred W., Trenton, N. J. Hose-jacket	322,163	Dec. 8	1363	353	31	1249
Packer, Charles W., Philadelphia, Pa. Ice-cream freezer	313,760	Mar. 10	984	254	30	969
Packer, George W., Rock Falls, Ill. Check-rower	321,449	July 7	54	16	32	13
Packer, George W., Rock Falls, Ill. Hoop-driver	325,440	Sept. 1	304	74	32	1073
Packer, George W., Rock Falls, and C. M. Grim, Pierceville, Ill. Harvester	323,954	Aug. 11	739	206	32	669
Packer, Henry H., Boston, Mass. Fan-blower	310,219	Jan. 6	75	20	30	10
Packer, John F., assignor to D. Bradley Manufacturing Company, Chicago, Ill. Clamping device	313,019	Feb. 24	2123	578	30	764
Packer, John F., assignor to D. Bradley Manufacturing Company, Chicago, Ill. Cultivator	323,440	Aug. 4	71	19, 20	32	536
Packer, John F., assignor to D. Bradley Manufacturing Company, Chicago, Ill. Wheel	323,441	Aug. 4	74	20, 21	32	536
Packer, John F., assignor to D. Bradley Manufacturing Company, Chicago, Ill. Bed-plate for sulky-plow beams	323,442	Aug. 4	75	21, 22	32	536
Packer, John F., assignor to D. Bradley Manufacturing Company, Chicago, Ill. Seeding-machine	323,443	Aug. 4	77	22, 23	32	537
Packer, John F., assignor to D. Bradley Manufacturing Company, Chicago, Ill. Seeding-machine	323,444	Aug. 4	80	23	32	537
Packwood, George H., Tampa, Fla. Bit-stock	323,198	July 28	2442	647	32	468
Padian Brothers & Co. (See Schmid, Charles J., assignor.)						
Paddock, W. W., et al. (See Vaughn and Eldridge, assignors.)						
Paden, James L., Lucky Valley, assignor of one-half to J. Kent, Correctionville, Iowa. Attachment for corn-planters	333,247	Dec. 29	2684	754	33	1540
Paessler, Theophilus H., Malvern, Ohio. Tricycle	311,084	Jan. 20	1218	334	30	259
Paessler, Theophilus H., Malvern, Ohio. Tricycle	320,677	June 23	2367	626	31	1503
Paessler, Theophilus H., Malvern, Ohio. Tricycle	320,678	June 23	2370	627	31	1503
Paessler, Theophilus H., Malvern, Ohio. Vehicle	328,709	Oct. 20	1587	413	33	303
Paessler, Theophilus H., Malvern, Ohio. Draft device for vehicles	331,156	Nov. 24	2299	622 623	33	964
Page, Caleb D., Morgan, Colo. Holder for hitching-straps	325,359	Sept. 1	170	45	32	1046
Pagé, Charles. (See Goulloud and Pagé.)						
Pagé, Charles, and L. Goulloud, assignors of one-third to T. F. G. Foisy, Montreal, Quebec, Canada. Lubricator for shafts	315,538	Apr. 14	791	209	31	147
Page, Charles L., Chicago, Ill. Fire-place	322,962	July 28	2109	561	32	407
Page, Charles W., Cathlamet, Wash. Ter. Device for operating vertical reciprocating saws	327,303	Sept. 20	2815	734	32	1557
Page, Charlotte E., Chicago, Ill. Necktie	331,535	Dec. 1	397	106	33	1070
Page, Dronislaus O., Gainesville, Tex. Double-foot plow-stock	314,050	Mar. 17	1377	359	30	1050
Page, Edwin K., Worcester, Mass. Nail	325,859	Sept. 8	863	217	32	1181
Page, Justin E., Rosedale, Kans., assignor of one-half to G. F. Wing, San José, Cal. Corn-planter	328,056	Oct. 13	716	187 188	33	136
Page, Louis, and L. Weber, Brooklyn, N. Y.; said Page assignor to said Weber. Curtain-fixture. (Release)	10,662	Nov. 17	1910	517	33	885
Page, Louis, and L. Weber, Brooklyn, N. Y.; said Page assignor to said Weber. Curtain-fixture	332,104	Dec. 8	1978	332	31	1225
Page, Peter B., Lorain, Ohio. Straight-way valve	314,708	Mar. 31	2248	598	30	1246
Page, Samuel K., Aylesbury, county of Buckingham, C. E. Robinson, Scarborough, county of York, and W. Stevens, New Bridge Street, county of Middlesex, England. Apparatus for the treatment of sewage	328,334	Oct. 13	1069	277 278	33	203
Page, Samuel W., Jersey City, N. J. Fastening-band for packages of merchandise	329,305	Oct. 27	2292	593	33	438
Page, William H., Norwich, Conn. Steam-radiator	310,714	Jan. 13	711	194	30	141
Page, William H., Norwich, Conn. Steam-radiator	310,715	Jan. 13	713	194	30	141
Page, William H., Norwich, Conn. Steam-generator	312,652	Feb. 24	1628	448	30	670
Page, William H., Norwich, Conn. Automatic boiler-feeder	326,143	Sept. 15	1225	313	32	1355
Page, William H., Preston, Conn. Steam-generator	331,431	Dec. 1	252	67, 68	33	1043
Page, William M. (See Wilt, George D., assignor.)						
Palce, Ellen M., Brighton, county of Sussex, England. Convertible garment	330,920	Nov. 24	1984	537	33	906
Paige Car Wheel Company. (See Kells, Ross, assignor.)						
Paige, David O., Detroit, Mich. Angle-iron	319,305	June 2	449	121	31	1133
Palce, John C., assignor of one-half to G. A. Osmond, Stoneham, Mass. Damper-regulator	324,270	Aug. 11	1182	321	32	750
Paillet, Joseph, assignor of one-half to H. Hias, Delaware, Ohio. Sash-fastener	322,553	July 21	1543	408	32	297
Pain, Henry J., 121 Walworth Road, county of Surrey, England. Signal-torch	319,843	June 9	1186	313	31	1273

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Draw.	Vol.	Page.
Pain, Robert W., New York, N. Y. Mechanical musical instrument	322,554	July 21	1543	408	39	297
Paine, Charles F., <i>et al.</i> (See Hodges, Horace F., assignor.)						
Paine, Diehl & Co. (See Roberts, Morris, assignor.)						
Paine, George C., Boston, Mass. Cuff-fastener	319,015	June 2	103	28	31	1067
Paine, George S., Wyandotte, Mich. Fertilizing attachment for corn-planters	316,645	Apr. 28	2282	600	31	433
Paine, George W. (See Whiting, James M., assignor.)						
Paine, Halbert E., Milwaukee, Wis. Street-sweeper	328,057	Oct. 13	720	188	33	136
Paine, Henry H., Philadelphia, Pa. Tray for children's chairs	318,131	May 19	1613	431	31	836
Paine, Howard S., Albany, N. Y. Douche apparatus	331,255	Nov. 24	2448	661	33	990
Paine, John A., Tarrytown, N. Y. Stench-trap	330,148	Nov. 10	992	236	33	700
Paine, John A., Tarrytown, N. Y. Door-knob attachment	332,359	Dec. 15	1636	429	33	1304
Paine, Sidney B. (See Paine, Walter J., assignor.)						
Paine, Sidney B. (See Paine, Walter J. and S. B.)						
Paine, Walter J., assignor of one-half to S. B. Paine, Boston, Mass. Regulator for electric lights	321,843	July 7	603	156	32	110
Paine, Walter J., assignor to S. B. Paine, Boston, Mass. Regulator for electric lights	321,844	July 7	604	157	32	110
Paine, Walter J., assignor of one-half to S. B. Paine, Boston, Mass. Regulating electric lights	321,845	July 7	607	157	32	111
Paine, Walter J., assignor of one-half to S. B. Paine, Boston, Mass. Regulating electric lights	321,846	July 7	609	157	32	111
Paine, Walter J. and S. B., Boston, Mass. Regulator for electric lights	321,748	July 7	452	120 121 121 122	32 32 32	84 85
Paine, Walter J. and S. B., Boston, Mass. Regulating electric lights	321,749	July 7	457	122	32	85
Paine, William. (See Thornton, Amédée, assignor.)						
Paine, William H., Brooklyn, N. Y. Cable-supporting sheave for cable railways	331,237	Nov. 24	2418	655	33	985
Paine, William H., Brooklyn, N. Y. Hand mechanism for operating grippers for cable railways	331,238	Nov. 24	2419	655 656	33 33	986
Paine, William H., Brooklyn, N. Y. Rope-driving machinery	331,239	Nov. 24	2420	656	33	986
Painter, Frederick G., assignor of one-half to W. G. Dabbs, Philadelphia, Pa. Painting	315,324	Apr. 7	467	118	31	85
Painter, William, Baltimore, Md. Bottle-stopper fastener	315,655	Apr. 14	941	247	31	176
Painter, William, Baltimore, Md. Fountain-pitcher	316,646	Apr. 28	2283	600	31	433
Painter, William, Baltimore, Md. Lamp wick and burner	329,589	Nov. 3	924	59	33	548
Painter, William, assignor of one-half to L. R. Keizer, Baltimore, Md. Electrical railway	320,679	June 23	2371	627	31	1504
Painter, William, assignor of one-half to L. R. Keizer, Baltimore, Md. Bottle-stopper	324,040	Aug. 11	855	237	32	670
Painter, William, assignor of one-half to L. R. Keizer, Baltimore, Md. Bottle-stopper	327,099	Sept. 29	2554	666	32	1510
Pallister, Edgar A., Leeds, county of York, England. Machine for folding and eyeletting labels	323,067	July 28	2284	598	32	434
Palitach, Christian, New York, N. Y. Coffee-roaster	312,376	Feb. 17	1256	316 347	30 30	597
Pallweber, Josef, Salzburg, Austria-Hungary. Time-piece	312,754	Feb. 24	1709	477	30	701
Palm, Charles, New York, N. Y. Float for fish-lines	327,100	Sept. 29	2556	666	32	1510
Palm, John H., Minneapolis, Minn. Circular sawing machine	326,583	Sept. 22	1205	474	32	1371
Palmer, Alonzo, Three Rivers, Mich. Pump	318,018	May 19	1467	393	31	809
Palmer, Augustus H., Utica, N. Y. Electric bell	318,647	May 26	2302	615	31	971
Palmer, Bartlett D., What Cheer, Iowa. Strap-hinge	311,518	Feb. 3	83	24	30	365
Palmer, Cassius C., New York, N. Y. Refrigerator-car	330,044	Nov. 10	839	216	33	670
Palmer, Cassius C., New York, N. Y. Mechanism for transferring power from the axle of railway-cars to refrigerator-cars	330,045	Nov. 10	840	216 217	33 33	670
Palmer, Cassius C., New York, N. Y. Controlling the speed of mechanical refrigerating apparatus on railway-cars from the outside	330,046	Nov. 10	844	217	33	671
Palmer, Charles D. (See Pedrick, Knott H., assignor.)						
Palmer, Charles H., New York, N. Y. Machine-gun	332,741	Dec. 22	2182	576	33	1407
Palmer & Co., N. F., Jr. (See Willson, Albert A., assignor.)						
Palmer, Cyrus F., Utica, N. Y. Grate-bar	311,517	Feb. 3	83	24	30	364
Palmer, Dennis W., Plymouth, Me. Snap-book	320,165	June 16	1633	434	31	1361
Palmer, Edgar M., Hartford, Conn. Ratchet-and-pawl mechanism	321,523	July 7	162	43	32	32
Palmer, Edward H., <i>et al.</i> (See Coleworthy, Charles W., assignor.)						
Palmer, Eli J., assignor of one-third to T. Snell, Toronto, Ontario, Canada. Machine for applying photographic emulsion to photographic plates	313,761	Mar. 10	985	254	30	969
Palmer, Frank L., New London, Conn. Mechanical movement	313,330	Mar. 3	989	73	30	229
Palmer, George E. (See Pratt and Palmer.)						
Palmer, George E., Horseheads, N. Y. Handle for pot and other covers	310,716	Jan. 13	714	195	30	142
Palmer, George W., New York, and G. W. Kidder, Staatsburg, N. Y. Ice-book	320,680	June 23	2374	628	31	1504
Palmer, Harden, Everett, Mass. Shutter-worker	324,149	Aug. 11	1000	275	32	716
Palmer, Henry L., Brooklyn, N. Y. Making sheet-metal ware	319,306	June 2	450	121	31	1133
Palmer, Isaac E., Middletown, Conn. Securing beam-heads upon beam-barrels	321,635	July 7	304	81	32	58
Palmer, Isaac E., Middletown, Conn. Suspension device for mosquito-canopies	322,066	July 14	903	223 234	32 32	172
Palmer, Isaac E., Middletown, Conn. Hitching device	329,071	Oct. 27	2096	544	33	403
Palmer, James M., Boston, Mass. Vapor-stove	328,605	Oct. 20	1444	376	33	278
Palmer, James M., Cambridge, Mass., assignor to Union Carburettor Company. Air or gas carburetor	312,289	Feb. 17	1147	313	30	576
Palmer, John. (See Wilson and Palmer.)						
Palmer, John C., Hamilton, Ontario, Canada. High and low water indicator	327,304	Sept. 29	2816	735	32	1558
Palmer, John H., Philadelphia, Pa. Button-hole attachment for sewing-machines	324,150	Aug. 11	1001	275	32	716
Palmer, John H., Philadelphia, Pa. Button-hole attachment for sewing-machines	332,426	Dec. 15	1726	452	33	1319
Palmer, John H., assignor to American Buttonhole, Overseaming and Sewing Machine Company, Philadelphia, Pa. Bobbin-winder for sewing-machines	312,501	Feb. 17	1440	395	30	631
Palmer, John W., Syracuse, Mo., assignor of one-half to M. E. Taylor. Scale-beam	328,804	Oct. 20	1099	442	33	325
Palmer, Joseph, Kingsley, Iowa. Snow-plow	328,805	Oct. 20	1700	443	33	325
Palmer, Norman A. (See Clark and Palmer.)						
Palmer, Noyes F., Jamaica, N. Y. Button	327,101	Sept. 29	2357	666	32	1510
Palmer, Noyes F., Jamaica, N. Y. Button	327,102	Sept. 29	2357	666	32	1510
Palmer, Philip A., Chicago, Ill. Artificial denture	315,656	Apr. 14	943	247	31	176
Palmer, Seth E. A., San Bernardino, Cal. Cultivator and weed-cutter	314,873	Mar. 31	2497	602	30	1292
Palmer, Seymour C., South Norwalk, Conn. Hat-sizing machine	320,581	June 23	2240	593 594	31 31	1479
Palmer, T. W. (See Williams, John H., assignor.)						
Palmer, Timothy G., Schultsville, N. Y. Torpedo railway-signal	310,717	Jan. 13	715	195	30	142
Palmer, Timothy G., Schultsville, N. Y. Torpedo for danger-signals upon railways	310,718	Jan. 13	716	195	30	142
Palmer Torpedo Railway Signal Company. (See Clark, Henry F., assignor.)						
Palmer, Warren K. (See Goeu and Palmer.)						
Palmer, William W., Montague, Tex. Cloth-rack	323,522	Aug. 4	185	53	32	556

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Pambla, Edward S., Chicago, Ill. Rotary engine	330,417	Nov. 17	1340	{ 356 357 }	33	776
Pancoast, John K. (See Richardson, Samuel T., assignor.)						
Pangborn, Henry, Lee's Corner, Mich. Log-binder	323,445	Aug. 4	81	24	32	537
Panose, Frederic W., and C. F. Klots, New York, N. Y. Machine for making looped twisted wire	320,582	June 23	2243	584	31	1480
Panose, Friedrich, New York, N. Y. Plating-machine	371,432	Dec. 1	254	68, 69	33	1043
Panton, John A., Quincy, Mass. Leather-working machine	313,231	Mar. 3	293	73	30	830
Panzig, Brune E., Philadelphia, Pa. Cook	324,151	Aug. 11	1003	276	32	717
Pape, Hermann, Hamburg, Germany, assignor to Burrell & Whitman, Little, Falls, N. Y. Centrifugal creamer	319,307	June 2	451	122	31	1133
Papineau, Frank J., Jr., assignor of one-half to E. C. Canning, New Orleans, La. Car-coupling	333,025	Dec. 22	2573	677	33	1479
Paradis, John E., Mokence, Ill. Marker for seeding machines and check-rows	316,054	Apr. 21	1489	329	31	223
Paradise, Frank D., Memphis, Tenn. Window-shutter	314,393	Mar. 24	1831	487	30	1144
Paradise, Frank D., Memphis, Tenn. Anchor for buildings	318,648	May 26	2303	615	31	971
Parcelle, Albert L., Boston, Mass., assignor to National Electrical Company, New York, N. Y. Vibrating electric motor	324,152	Aug. 11	1004	{ 276 277 }	32	717
Parcelle, Albert L., Boston, Mass., assignor to National Electrical Company, New York, N. Y. Electrical synchronous movement	324,153	Aug. 11	1008	277	32	718
Pardee, Charles F., assignor to G. W. Cheever & Co., North Attleborough, Mass. Chain-machine	322,324	Oct. 27	2480	640	33	473
Pardy, George, San Francisco, Cal. Propelling railway-cars	326,144	Sept. 15	1226	{ 313 314 }	32	1255
Pardy, George, San Francisco, Cal. Propelling railway-cars	326,145	Sept. 15	1229	{ 314 315 }	32	1256
Paré, Louis, and H. Reichenbach, Detroit, Mich. Stove-pipe	324,154	Aug. 11	1015	278	32	719
Parham, Charles, Philadelphia, Pa. Ventilating device for commutators of dynamo-electric machines	322,427	Dec. 15	1727	453	33	1320
Parham, George J., assignor to Thornton & Parham, Bedford, Ind. Hand-reaper	310,537	Jan. 6	481	134	30	92
Parham, Lewis, Palermo, Ill. Feeder for thrashing-machines	322,058	Oct. 13	721	188	33	137
Paridy, Charles, East St. Louis, Ill. Band-cutter and feeder for thrashing-machines	331,536	Dec. 1	398	106	33	1070
Paris, Daniel E., Troy, N. Y. Grate for coal-burning stoves	322,206	Oct. 27	2223	594	33	438
Pariseau, Joseph, Jr., St. Jean Baptiste, Quebec, Canada. Carriage-seat	322,555	July 21	1546	408	32	297
Parish, William F., Minneapolis, Minn. Mechanism for finishing engine bed-frames	332,742	Dec. 22	2184	{ 576 577 }	33	1408
Parish, William F., Minneapolis, Minn. Mechanism for finishing engine bed-frames	332,743	Dec. 22	2186	577	33	1408
Parish, William F., Minneapolis, Minn. Mechanism for finishing engine bed-frames	332,744	Dec. 22	2187	577	33	1408
Parish, William F., Minneapolis, Minn. Machine for finishing engine bed-frames	332,745	Dec. 22	2188	{ 577 578 }	33	1409
Parizeau, Joseph, St. Jean Baptiste, Montreal, Quebec, Canada. Carriage-top	319,996	June 16	1410	371	31	1320
Park, D. E. (See McKenna, William, assignor.)						
Park, Harvey S., Henderson, Ky. Electro-magnetic car-brake	314,709	Mar. 31	2249	596	30	1246
Park, James R., La Vergne, Tenn. Reflector	320,494	June 23	2124	560	31	1457
Park, James R., La Vergne, Tenn. Railway-signal	324,111	Aug. 18	1378	375	32	795
Park, James R., La Vergne, Tenn. Train-sighter	322,606	Oct. 20	1445	376	33	278
Park, John S., assignor of one-half to J. W. Graham, T. C. Baase, and F. Well, Rockport, Ind. Spark-arrester	312,889	Feb. 24	1945	533	30	732
Park, Samuel M., Chicago, Ill. Machine for preparing feathers for dusters	322,672	Nov. 3	329	84	33	567
Park, Shubael, Oakland, Cal. Weighing delivery-wagon	322,132	Oct. 13	818	214	33	155
Park, Thomas R., Parkersburg, W. Va. Extensible ladder	322,632	July 21	1646	435	32	315
Parke, Amos S., Bay City, Mich. Saw-swage	315,539	Apr. 14	791	209	31	147
Parker, Aaron H., Boston, Mass. Dental plate	317,667	May 12	993	258	31	712
Parker, Abijah S., Cincinnati, Ohio. Top-prop nut	318,787	May 26	2493	666	31	1005
Parker, Abijah S., Cincinnati, Ohio. Hub-band	325,692	Sept. 8	630	{ 159 160 }	32	1138
Parker, Abijah S., Cincinnati, Ohio. Vehicle-dash	322,222	Dec. 15	1526	400	33	1285
Parker, Adelbert E., Dubuque, Iowa. Wagon-axle	312,502	Feb. 17	1441	395	30	631
Parker, Carlton B. (See Card, George P., assignor.)						
Parker, Charles F., and L. E. Marquisee, Syracuse, N. Y. Coal-oil stove	328,511	Oct. 20	1307	340	33	254
Parker, Clawson, Cowland, Kans. Animal-stall	321,999	July 14	811	212	32	156
Parker Company, Charles. (See Parker, Stephen O., assignor.)						
Parker Company, Charles. (See Parker and Griswold, assignors.)						
Parker, David M., Boston, Mass. Gas-cock	314,874	Mar. 31	2497	662	30	1293
Parker, Dexter W., Meriden, Conn. Suspension device for lamp-shades	311,519	Feb. 3	84	24	30	365
Parker, Dexter W., and L. F. Griswold, assignors to C. Parker Company, Meriden, Conn. Extension-lamp	311,520	Feb. 3	86	25	30	365
Parker, Edward, assignor to Winchester Repeating Arms Company, New Haven, Conn. Machine for crimping cartridges	310,306	Jan. 6	193	53	30	37
Parker, Emory, New Britain, Conn. Knob attachment	327,820	Oct. 6	411	107	33	72
Parker, Francis M., Charleston, Ill. Machine for tabling broom-corn	322,242	Oct. 13	959	249	33	122
Parker, Frank F., assignor to P. Derby, Gardner, Mass. Child's chair	317,668	May 12	994	258	31	712
Parker, Frank F., assignor to P. Derby & Co., Gardner, Mass. Child's chair	322,472	July 21	1434	376	32	277
Parker, Frank F., assignor to P. Derby & Co., Gardner, Mass. Hinge	327,119	Sept. 29	2679	696	32	1533
Parker, Fred D., Denver, Colo. Core breaker and puller for rock-drills	331,302	Dec. 1	85	21	33	1014
Parker, George, Bay City, Mich. Device for throttling steam-engines	313,365	Mar. 3	461	119	30	862
Parker, George E., et al. (See Moulton, Luther V., assignor.)						
Parker, George W., New Richmond, Ohio. Automatic cut-off	316,386	Apr. 21	1031	510	31	362
Parker, Gustavus. (See Harlow and Parker.)						
Parker, Harry W., assignor to himself and L. B. Wood, Omaha, Nebr. Rod and bolt clipper	328,249	Oct. 13	960	250	33	182
Parker, Jacob A. (See Deuel, Reuben, assignor.)						
Parker, Jacob A., Terre Haute, Ind. Stock-car	327,305	Sept. 29	2817	735	32	1558
Parker, James B., Memphis, Ala. Seed-planter	332,746	Dec. 22	2189	578	33	1409
Parker, James E., Whiting, Vt. Bag-holder	313,515	Mar. 10	661	172	30	908
Parker, John B., et al. (See Moulton, Luther V., assignor.)						
Parker, John E., Beloit, Wis. Drive-well point	313,822	Mar. 17	1157	301	30	1009
Parker, John H., Golden, Colo. Steam-cooker	332,283	Dec. 15	1527	400	33	1285
Parker, John J., Aitkin, Minn., assignor to W. W. Parker, Spearfish, Dak. Ter. Drag-saw	322,473	July 21	1436	377	32	277
Parker, John L., Worcester, Mass. Manufacturing ferrules	315,058	Apr. 7	104	24	31	20
Parker, John M. (See Welker, Joseph Jr., assignor.)						
Parker, John P., Ripley, Ohio. Portable screw-press	318,285	May 19	1806	483	31	873

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Parker, John W. (See Stowe, James G., assignor.)						
Parker, Josiah W., <i>et al.</i> (See Ellis, James W., assignor.)						
Parker Machine Company, J. B. (See Carroll, William T., assignor.)						
Parker, Richard W., Newark, N. J. Cap for pen-holders	316,815	Apr. 28	2538	603	31	480
Parker, Russell, <i>et al.</i> (See Sutton, Benjamin F., assignor.)						
Parker, Samuel W., and H. Blackman, New York, N. Y. Disinfecting baled rags, &c	311,360	Jan. 27	1619	443	30	318
Parker, Stephen O. (See Chapman, Frank H., assignor.)						
Parker, Stephen O., assignor to C. Parker Company, Meriden, Conn. Vise	319,743	June 9	1042	270	31	1249
Parker, Thomas S., Schenectady, N. Y. Trimming attachment for sewing-machines	314,710	Mar. 31	2251	509	35	1247
Parker, Washington L., assignor of one-half to E. McDowell, Spartanburg, S. C. Wrench	311,202	Jan. 27	1387	379	30	276
Parker & Whipple Company. (See Rutherford and Wood, assignors.)						
Parker, William W. (See Parker, John J., assignor.)						
Parker, Willis D., Delphi, Ind. Machine for welding and tapering the shanks of eye-bolts	318,788	May 26	2494	666	31	1005
Parkes, Samuel H., Birmingham, county of Warwick, England. Compound magnet	329,768	Nov. 3	460	116	33	792
Parkhill, David H., Jr., Philadelphia, Pa. Door-securer	329,603	Nov. 3	371	84	33	567
Parkhill, John, Blue Lake, Dak. Ter. Sleigh-knee	331,637	Dec. 1	307	167	33	1570
Parkhurst, Amos F., Kewanee, Ill. Bottle-stopper fastener	319,564	June 9	725	194	31	1191
Parkhurst, Darius, assignor to Kingsland & Ferguson Manufacturing Company, St. Louis, Mo. Saw-guide	321,134	June 30	2961	785	31	1619
Parkhurst, Emily R. (See Parkhurst, Stephen R., assignor.)						
Parkhurst, Joseph P., assignor of one-half to W. L. Dix, Glens Falls, N. Y. Motor	320,166	June 16	1634	435	31	1301
Parkhurst, Josiah J. (See Culver, Arthur T., assignor.)						
Parkhurst, Stephen R., assignor to E. R. Parkhurst, Montclair, N. J. Machine for feeding, opening, and mixing wool	323,523	Aug. 4	184	23, 24	32	555
Parkinson, James, Waltham, Mass. Self-oiler for steam-engines	315,079	Apr. 7	105	24	31	91
Parkinson, John H., assignor to himself and J. D. Kerbangh, Bodie, Cal. Cable-railway grip	315,325	Apr. 7	468	118	31	85
Parks, Dana, Boston, Mass., assignor to Kensington Chair Company, Portland, Me. Scaffolding, lawn, and invalid chair	329,941	Nov. 10	703	180	33	633
Parks, Edward H., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Boring-machine	323,723	Aug. 4	443	126	32	606
Parks, Edward H., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Grinding-machine	323,478	Dec. 20	2192	834, 835	33	1798
Parks, Joseph L., <i>et al.</i> (See Deal, Josiah J., assignor.)						
Parks, Matthew B., Fayetteville, Tenn. Cultivator	311,912	Feb. 10	605	166	30	469
Parks, Samuel R., Pawtucket, R. I. Tobacco holder and shaver	322,244	Dec. 15	1739	460	33	1255
Parks, William H., Jr., Marysville, Cal. Steering mechanism for headers and thrashers	319,117	June 2	220	60	31	1069
Parmerlee, Arthur W., assignor to Wire Goods Company, Worcester, Mass. Splasher-holder	332,825	Dec. 22	2280	601	33	1423
Parmerlee, Henry S., assignor to Mathushek Piano Manufacturing Company, New Haven, Conn. Upright-piano case	327,714	Oct. 6	283	72	33	50
Parmerlee, Wellington L., Deep River, Conn. Carpet-fastener	316,169	Apr. 21	1551	432	31	313
Parmerlee, James C. (See Chafin, Simon, assignor.)						
Parmerlee, James C., and A. Swift, Sedalia, Mo. Device for connecting straps with rings, &c	310,719	Jan. 13	717	195	30	142
Parmerlee, James C., and A. Swift, Sedalia, Mo. Buckle	323,327	Dec. 20	2995	784	33	1561
Parrish, Marcus F. (See Parrish, Myron W. and M. F.)						
Parrish, Marcus F., and S. J. Munn, Niles, assignors of one-third to H. B. Peck, Allegan, Mich. Train-signal	320,495	June 23	2125	560	31	1457
Parrish, Myron W., Detroit, and M. F. Parrish, Niles, assignors of one-third to H. B. Peck, Allegan, Mich. Electric-signal apparatus	322,474	July 21	1437	377	32	278
Parrish, William N., Richmond, Ind. Fence-building machine	331,320	Dec. 1	83	21	33	1614
Parrott, Edwin D., Bridgeport, Conn. Combined suspenders and shoulder-braces	314,051	Mar. 17	1378	310	33	1050
Parry, David M., Rushville, Ind. Feeding apparatus for planters	325,763	Sept. 8	738	184	32	1178
Parry, George T., assignor of three-fourths to F. S. Groves, Philadelphia, Pa. J. Cone, Bristol, and W. H. Wingate, Camden, N. J. Marine signal-light for vessels	328,050	Oct. 13	722	189	33	137
Parrell, Henry V. and Henry V., Jr., New York, N. Y. Photographic camera	316,647	Apr. 28	2296	600, 601	31	434
Parrell, William C., Ellenville, N. Y. Hose-coupling	321,998	Dec. 8	1111	289	31	1276
Parshall, Alfred F., Kansas City, Mo. Artificial or plastic slate for blackboards	323,722	Aug. 4	442	122	33	603
Parshall, Charles H., Jr. (See Grace and Parshall.)						
Parshall, Charles H., Jr., Detroit, Mich. Lubricator	328,336	Oct. 13	1072	279	33	504
Parshall, Charles H., Jr., assignor to Michigan Lubricator Company, Detroit, Mich. Lubricator	322,375	Oct. 13	1071	277	33	293
Parrell, Edwin R., Newark, N. J. Button shank or eye testing machine	314,032	Mar. 17	1379	369	30	1751
Parson, Frank, Raton, N. Mex. Ter. Attachment for leveling-instruments and transits	331,433	Dec. 1	256	69	33	1041
Parsons, A. Ingram, New York, N. Y. Rock-drill chuck	315,326	Apr. 7	459	119	31	85
Parsons, A. Ingram, New York, N. Y. Rock-drill	319,308	June 2	453	122, 123	31	1134
Parsons, Calvin W., assignor of one-fourth to A. C. Logan and C. E. Chittenden, Scranton, Pa. Lock	318,388	May 10	1955	527	31	900
Parsons, Charles A., Gateshead-on-Tyne, county of Durham, England. Rotary motor	324,710	Oct. 20	1568	413, 414	33	303
Parsons, Charles A., Gateshead-on-Tyne, county of Durham, England. Apparatus for lubricating rotary motors	329,711	Oct. 20	1503	415	33	364
Parsons, George W., Burlington, Iowa. Machine for measuring and trimming fabrics	324,155	Aug. 11	1016	278	32	719
Parsons Hand Rock Drill Company. (See Parsons, Henry F., assignor.)						
Parsons, Henry F., New York, N. Y., assignor to Parsons Hand Rock Drill Company, of New York. Rock-drilling machine	314,343	Mar. 21	1769	471	30	1121
Parsons, John G., Cincinnati, Ohio. Vehicle-spring	320,389	June 10	1964	522	31	1424
Parsons, Lewis W., Los Gatos, Cal. Fruit-drier	321,135	June 30	2263	785	31	1619
Parsons, William B., Jr., Elmira, N. Y. Automatic flushing water-closet	332,428	Dec. 15	1739	453	33	1323
Parsons, Winslow R., Waterloo, Iowa. Hemstitching attachment for sewing-machines	311,673	Feb. 3	279	77	30	461
Parton, Charles, Plattsburg, N. Y., assignor of one-half to D. Graham, Montreal, Canada. Shuttle for sewing-machines	323,068	July 23	2266	599	32	425
Partridge, Andrew, assignor of five-eighths to H. E. Wilkins and H. A. Chapin, Springfield, Mass. Truck-wheel	319,844	June 9	1166	313	31	1271
Partridge, Andrew, assignor of one-half to D. F. Sweeney, Springfield, Mass. Safety-razor	320,885	Sept. 22	2262	591	32	1471
Partridge, Andrew, and D. F. Sweeney, Springfield, Mass. Razor-guard	330,418	Nov. 17	1542	357	33	776
Partridge, Charles S. (See Pratt and Partridge.)						
Partridge, Warren J., Athol, Mass. Oscillating-cylinder engine	310,609	Jan. 13	577	159	30	117
Partz, August F. W., Philadelphia, Pa. Liquid for voltaic batteries	328,607	Oct. 20	1447	373	33	273
Parvin, Frank. (See French and Parvin.)						
Pasco, Isaac D., Belmont, Nev. Fire-escape	332,554	Dec. 15	1909	500	33	1351
Pascoe, William F. D., J. M. Haines, and J. Butland, South Easton, Pa. Mixed paint	317,004	May 5	101	101	31	511

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Pashley, Henry, Brooklyn, N. Y. Ash-chute	311,674	Feb. 3	281	77, 78	30	401
Passmore, Levia, Philadelphia, Pa. Grate for furnaces	317,184	May 5	345	87	31	586
Patch, Asahel H., Clarksville, Tenn. Harrow	816,648	Apr. 28	2288	601	31	434
Patch, Fred R., Proctor, assignor to himself and R. Proctor, Center Rutland, Vt. Pumping-machine for stone-saws	326,323	Sept. 15	1486	387	32	1304
Patchen, Abel, Westfield, N. Y. Freeing quicksilver from lead	314,711	Mar. 31	2254	.....	30	1247
Pate, Theodore H. (See Lawshe, Spencer R., assignor.)	319,118	June 2	230	60	31	1090
Patek, F. (See Burke, William A., assignor.)						
Patent Button Company. (See Ivins, Ellwood, assignor.)						
Patent Button Company. (See Platt, Irving G., assignor.)						
Patent Nut and Bolt Company. (See Hasenclever, Friedrich A., assignor.)						
Patent Paper Cigar Box Company. (See Powers, Daniel E., assignor.)						
Patent Revolving Window Sash Company. (See Wagner, Emil, assignor.)						
Patent Window Fittings Company. (See Jones, Hugh, assignor.)						
Paterson, Ambrose, London, England. Removing stagy hairs from fur-seal and other skins.	331,538	Dec. 1	399	107	33	1070
Pates, Thomas, assignor to Hapgood Plow Company, Alton, Ill. Planting-plow	324,460	Aug. 18	1465	401	32	810
Pates, Thomas, assignor to Hapgood Plow Company, Alton, Ill. Planting-plow	324,481	Aug. 18	1466	401	32	810
Pates, William S., assignor to Hapgood Plow Company, Alton, Ill. Sulky-plow	322,633	July 21	1648	435	32	315
Pates, William S., assignor to Hapgood Plow Company, Alton, Ill. Caster-colter	324,482	Aug. 18	1467	402	32	810
Pates, William S., assignor to Hapgood Plow Company, Alton, Ill. Cultivator	326,500	Nov. 3	227	59	33	549
Pathe, William, Worcester, Mass. Sign and door plate	330,511	Nov. 17	1463	391	33	729
Patric, Charles E., Springfield, Ohio. Spring-hoe seed-drill	316,387	Apr. 21	1932	510	31	362
Patric, Charles E., Springfield, Ohio. Force-fed seeding-machine	324,722	Aug. 18	1795	495	32	872
Patric, Charles E., Springfield, Ohio. Seeding-machine	331,157	Nov. 24	2300	623	33	964
Patric, Lewis, Springfield, Ohio. Hot-air furnace	317,005	May 5	101	26	31	541
Patrick, Armena. (See Tonsley, Miron G., assignor.)						
Patrick, Jones. (See Peeney, Samuel B., assignor.)						
Patrick, Robert, Jr., assignor to himself and J. Wilson, Galt, Ontario, Canada. Cloth-pressing machine	317,185	May 5	346	87, 88	31	586
Patrick, Robert, Jr., and G. Godfrey, Galt, Ontario, Canada. Apparatus for washing piece-goods	324,723	Aug. 18	1796	496	32	872
Patrick, William A., Rutland, Vt. Shaft-bearing	318,649	May 26	2303	616	31	971
Pattberg & Brothers, Lewis. (See Pattberg, Hilarius, assignor.)						
Pattberg & Brothers, Lewis. (See Schneck, Gustav, assignor.)						
Pattberg, Hilarius, Jersey City, N. J., assignor to L. Pattberg & Brothers, New York, N. Y. Book-case	317,566	May 12	858	220	31	687
Pattee, John A., Lamar, Mo. Spectacle-case	313,762	Mar. 10	968	255	30	969
Pattee, Richard, assignor of one-half to E. P. Draper, Holyoke, Mass. Water-gate	330,600	Nov. 17	1824	491	33	860
Patten, Albert B., and F. E. Spragne, Corinna, Me. Floor-board clamp	311,029	Jan. 20	1132	309	30	224
Patten, Anna M. (See Patten, Jefferson, assignor.)						
Patten, Charles W., San Francisco, Cal. Ore-concentrator	315,224	Apr. 14	1174	307	31	220
Patten, Edward K., Utica, N. Y. Clamping-machine	323,955	Aug. 11	741	207	32	670
Patten, Edward K., Utica, N. Y. Cutter-head	330,260	Nov. 10	1115	{ 296 297 }	33	726
Patten, George. (See Woodbury, Merrill, and Patten.)						
Patten, George. (See Woodbury, Merrill, Patten, and Woodbury.)						
Patten, George M., Jersey City, N. J. Harvester and mowing-machine	330,720	Nov. 17	1736	468	33	854
Patten, George M., Jersey City, N. J., assignor to W. A. Amberg, Chicago, Ill. Permanent and temporary letter-file	325,625	Sept. 1	542	137	32	1118
Patten, Jefferson, Brooklyn, assignor to A. M. Patten, New York, N. Y. Tap and die	310,462	Jan. 6	380	105	30	74
Patten, Jefferson, Brooklyn, assignor, by mesne assignments, to Tubal Cain Tap, Die, and Bolt Company, New York, N. Y. Screw-bolt	329,139	Oct. 13	819	214	33	155
Patterson, Calvin, Brooklyn, N. Y. Scrap-book	315,327	Apr. 7	470	119	31	86
Patterson, Charles O., Augusta, Kans. Pencil-holder and slate-cleaner	311,361	Jan. 27	1621	443	30	318
Patterson, James K., Crete, Neb. Stalk-cutter	320,612	June 23	2529	670	31	1534
Patterson, James W., et al. (See Ebel, John V., assignor.)						
Patterson, Jephtha D., Abbotts, N. Y. Device for aerating milk	323,060	July 28	2266	509	32	435
Patterson, John W., and N. R. Jones, Slaughterville, Ky. Vehicle	313,763	Mar. 10	969	255	30	970
Patterson, Louis, South Pueblo, Colo. Nail-plate feeder	322,963	July 28	2110	{ 561 562 }	32	407
Patterson, Peter. (See McLachlan, John C., assignor.)						
Patterson, Peter, assignor to National Tube Works Company, McKeesport, Pa., and Boston, Mass. Tube	318,286	May 19	1808	484	31	874
Patterson, Peter, assignor to National Tube Works Company, McKeesport, Pa. Tube-coupling cover	318,025	May 26	2673	709	31	1037
Patterson, Peter, assignor to National Tube Works Company, McKeesport, Pa. Pipe-joint	323,956	Aug. 11	743	207	32	670
Patterson, Peter, assignor of one-half to National Tube Works Company, McKeesport, Pa., and Boston, Mass. Securing rings in boiler-heads	329,335	Oct. 27	2483	640	33	474
Patterson, Peter, and H. E. Boyd, McKeesport, Pa., assignors to National Tube Works Company, Boston, Mass. Machine for scarfing and bending tube-skelps	314,712	Mar. 31	2254	599	30	1247
Patterson, Thomas, Cortland, N. Y. Loom for weaving wire fabric	312,006	Feb. 10	743	{ 303 304 }	30	494
Patterson, Thomas W., Clinton, Mo. Head-rest for barbers' chairs	315,540	Apr. 14	792	209	31	147
Patterson, Thomas W., Clinton, Mo. Head-rest for barbers' chairs	322,337	Oct. 13	1073	279	33	204
Patterson, William, San Francisco, Cal. Ticket-holder	310,610	Jan. 13	578	159	30	117
Patterson, William D., Savonas Ferry, British Columbia, Canada. Mechanical traverse-table	318,578	May 26	2220	593	31	955
Patterson, William F. (See Stillman and Patterson.)						
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Telegraph-cable	311,521	Feb. 3	87	25	30	365
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Repairing telegraph-cables	311,522	Feb. 3	88	25	30	365
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Hanging telegraph-cables	311,523	Feb. 3	88	25	30	366
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Apparatus for filling lead pipes of telegraph-cables	311,913	Feb. 10	607	166	30	469
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Joint for electric-arc-light cables	311,914	Feb. 10	608	167	30	469
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Electric conductor. (Reissue)	10,563	Feb. 24	2150	585	30	769
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Cable-hanger	312,755	Feb. 24	1770	487	30	701
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Joint for electric cables	321,240	June 30	3094	822	31	1644

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Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Hydrostatic testing-machine for telegraph-cables	324,412	Aug. 18	1380	{ 375 376 }	32	795
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Terminal for electric-light cables	324,413	Aug. 18	1381	376	32	795
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Cable armor-ing machine	330,047	Nov. 10	845	{ 217 218 }	33	671
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Testing electric cables	330,048	Nov. 10	847	218	33	671
Patterson, William R., assignor to Western Electric Company, Chicago, Ill. Splice for under-ground telegraph-cables	330,049	Nov. 10	848	218	33	672
Patterson, William W., assignor to one-half to E. I. Jones, Staunton, Va. Writing-tablet	322,313	July 14	1209	318	32	220
Pattin, Richard, Harmar, assignor to Argand Refining Company, Marietta, Ohio. Compound from which can be made a lubricating-oil of low cold test	318,389	May 19	1957		31	900
Pattinson, George. (See Shearer, John, assignor.)						
Pattison, George H., Freeport, Ill. Windmill	317,186	May 5	348	88	31	587
Pattison, George H., Freeport, Ill. Geared windmill	319,309	June 2	456	123	31	1134
Pattison, George H., Freeport, Ill. Windmill-gearing	321,750	July 7	460	122	32	85
Pattison, George H., Freeport, Ill. Windmill-gearing	322,314	July 14	1210	318	32	230
Pattison, George H., Freeport, Ill. Fence-barb	323,724	Aug. 4	445	127	32	606
Pattison, George H., Freeport, Ill. Windmill-gearing	323,725	Aug. 4	446	127	32	606
Pattison, George H., Freeport, Ill. Gearing for windmills	329,769	Nov. 3	461	117	33	592
Pattison, George H., Freeport, Ill. Windmill-gearing	329,770	Nov. 3	463	118	33	592
Pattison, George H., Freeport, Ill. Gearing for windmills	330,921	Nov. 24	1968	537	33	906
Pattison, George H., Freeport, Ill. Gearing for windmills	333,026	Dec. 23	2574	677	33	1480
Pattison, George H., Freeport, Ill. Gearing for windmills	333,148	Dec. 29	2748	721	33	1515
Patton, Charles W., Houston, Tex. Churn-power	314,875	Mar. 31	2498	663	30	1293
Patton, Charles W., Chicago, Ill. Churn	324,879	Aug. 25	2020	553	32	930
Patton, John H., Harrisburg, Pa. Bicycle	318,789	May 26	2495	666	31	1005
Patton, W. Baird, Duluth, Minn. Radiator-valve	320,813	June 23	2520	670	31	1536
Patton, William P., assignor of one-half to W. E. Machlin, Harrisburg, Pa. Voltaic-arc lamp	311,142	Jan. 20	1997	3-7	30	253
Patton, William P., assignor of one-half to J. R. Piper, Harrisburg, Pa. Pipe-coupling	318,790	May 26	2496	666	31	1005
Patton, William W., Philadelphia, Pa. Combined open grate and heater	317,006	May 5	104	27	31	541
Pattysou, William D. C., assignor to H. S. Crowell, Marlborough, Mass. Clasp or holding device for wearing-apparel	315,959	Apr. 14	1367	354	31	253
Paul, Almarin B., San Francisco, Cal. Ore-grinding mill	315,925	Apr. 14	1176	307	31	220
Paul, Amasa C., Minneapolis, Minn. Wire-barbing machine	316,909	Apr. 28	2682	690	31	506
Paul, Charles H., Mill Centre, Wis. Sash-holder	310,220	Jan. 6	76	80	30	17
Paul, Eugene, Norwich, N. Y. Lifting device	311,030	Jan. 20	1133	309	30	224
Paul, Fanny W., New York, N. Y. Device for inducing sleep	313,510	Mar. 10	661	173	30	908
Paul, George D., assignor of one-half to C. E. Vreeland, East Orange, N. J. Button	319,997	June 16	1411	371	31	1321
Paul, Thomas H., Frostburg, Md. Planer-chuck	330,261	Nov. 10	1117	297	33	727
Paul, William H. (See Smith and Paul.)						
Paul, Archibald W., and D. L. Heiskell, Wheeling; said Heiskell assignor to J. Paull, Wellsburg, W. Va. Lock	327,715	Oct. 6	285	73	33	50
Paul, James. (See Paul and Heiskell, assignors.)						
Paulus, Christopher. (See Robertson, James D., assignor.)						
Paulus, Jacob, Berlin, Germany. Cap for exploding dynamite	323,594	Aug. 4	186	54	32	557
Pauly, Julius, Port de Mouley dier Dordogne, France. Roller for flour-mills	321,241	June 30	3095	822	31	1644
Pausch, Oscar M., Newark, Ohio. Photographic-plate holder	328,512	Oct. 20	1308	340	33	254
Pausey, Herbert J., and C. T. Crowden, Clapham, county of Surrey, England. Velocipede	316,649	Apr. 22	2229	601	31	434
Pawling, Alonzo, Milwaukee, Wis. Tool-holder	319,016	June 2	105	28	31	1067
Paxson, Charles H., Springfield, Ohio. Device for operating gates	332,940	Dec. 22	2443	648	33	1457
Paxson, Charles H., and H. Croft, Jr., Springfield, Ohio. Clutching device	325,565	Sept. 1	466	117	32	1105
Paxton, Charles. (See Devine, Charles E., assignor.)						
Payn, Philip J., Washington, D. C. Car-coupling	312,156	Feb. 10	954	260	30	533
Payne, Benjamin M., Chicago, Ill. Index	324,584	Aug. 18	1800	441	32	836
Payne, Benjamin N., Elmira, N. Y. Steam-boiler	322,475	July 21	1439	377	32	278
Payne, Charles F., et al. (See Hodges, Horace F., assignor.)						
Payne & Co., Walter S. (See Payne, Walter S., assignor.)						
Payne, David H., Coffeeville, Tex. Mole-trap	321,524	July 7	163	44	32	39
Payne, Edwin, Oxbow, N. Y. Snow-plow	322,849	July 21	1940	513	32	368
Payne, Frank, East Portland, Oreg. Thrasher and separator	323,726	Aug. 4	449	{ 127 128 }	32	607
Payne, George C., Washington, D. C. Gripping implement	319,017	June 2	105	28	31	1067
Payne, George W., Little Neck, N. Y. Vehicle-seat	327,584	Oct. 6	108	24	33	90
Payne, Newton W., et al. (See Garland, Milton H., assignor.)						
Payne, Richard A., Enfield, N. C. Combined self-waiting table and desk	314,713	Mar. 31	2258	600	30	1247
Payne, Walter S., assignor to W. S. Payne & Co., Fostoria, Ohio. Automatic pressure-regulator	332,747	Dec. 22	2190	578	33	1409
Payne, William H., Camden, N. J. Ventilator	324,271	Aug. 11	1183	321	32	750
Payne, William H., assignor of one-half to A. Wilke, Camden, N. J. Boiler	314,467	Mar. 24	1924	514	30	1161
Payson, Edward, et al. (See Payson, Joseph R., Jr., assignor.)						
Payson, George A., assignor to himself and W. H. Willits, Chicago, Ill. Pocket oil-can	317,007	May 5	105	27	31	541
Payson, Joseph R., Jr., Chicago, Ill. Folding bed	329,942	Nov. 10	704	{ 180 181 }	33	643
Payson, Joseph R., Jr., Chicago, Ill. Attachment for flour-barrels	332,105	Dec. 8	1280	332	33	1235
Payson, Joseph R., Jr., assignor to E. Payson and W. F. Main, Chicago, Ill. Caster	324,156	Aug. 11	1017	278	32	719
Peabody, George L. (See Campbell, Robert, assignor.)						
Peabody, Henry O., Boston, Mass. Fertilizer-distributor	320,279	June 16	1792	{ 476 477 }	31	1389
Peabody, Henry O., Boston, Mass. Fertilizer-distributor	325,269	Sept. 1	49	15	32	1023
Peach, John B., et al. (See Smith, John A., assignor.)						
Peacock, Elijah P., Chicago, Ill. Animal-trap	314,602	Mar. 31	2113	563	30	1221
Peacock, Joseph V. (See Sheldon and Peacock.)						
Peacock, Thomas B. (See Bowen, David, assignor.)						
Pearce, Atkins & Co. (See Mullen and Atkins, assignors.)						
Pearce, Frank I., assignor to Link Belt Machinery Company, Chicago, Ill. Shipper device for bevel-friction driving-wheels	312,800	Feb. 24	1946	533	30	732
Pearce, Frank I., assignor to Link Belt Machinery Company, Chicago, Ill. Endless or pan conveyor	312,801	Feb. 24	1947	533	30	732
Pearce, Frank T., and J. Hoagland, Providence, R. I. Charm for watch-chains	315,328	Apr. 7	471	119	31	86
Pearce & Hoagland. (See Hoagland, John, assignor.)						
Pearce, James W., Cleveland, Ohio. Feed-water heater	323,957	Aug. 11	745	207	32	670

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Pearce, William, Plantville, Conn. Die for forging ox-shoes	314,189	Mar. 17	1563	409 410 411	30	1083
Pearce, William, Plantville, Conn. Forging ox-shoes	314,190	Mar. 17	1564	410 411 412	30	1083
Pearce, William, Plantville, assignor to himself, M. N. Woodruff, and N. A. Barnes, South- ington, Conn. Forging ox-shoes	314,191	Mar. 17	1565	411 412 413	30	1083
Pearce, William, Plantville, assignor to himself, M. N. Woodruff, and N. A. Barnes, South- ington, Conn. Forging ox-shoes	314,192	Mar. 17	1565	412 413 414	30	1063
Pearce, William, Plantville, assignor to himself, M. N. Woodruff, and N. A. Barnes, South- ington, Conn. Die for forging ox-shoes	314,193	Mar. 17	1566	413 414 415	30	1083
Pearo, George R., Lynn, Mass. Rope or cord fastening	320,959	June 30	2732	727	31	1578
Pearo, George R., Lynn, Mass. Mechanical movement	333,398	Dec. 29	2996	785	33	1561
Pearo, George R., Lynn, Mass., assignor to Gutta Percha and Rubber Manufacturing Com- pany, New York, N. Y. Machine for staying layers of flexible material	333,348	Dec. 29	2985	754 755	33	1540
Pearo, George R., Lynn, Mass., assignor to Gutta Percha and Rubber Manufacturing Com- pany, New York, N. Y. Machine for staying layers of flexible material	333,349	Dec. 29	2988	756	33	1541
Pearsall, J. Herbert, Wellsville, N. Y. Clothes-drier	328,968	Oct. 27	1942	506 507	33	376
Pearsall, John, New York, N. Y. Carpet-fastener	314,053	Mar. 17	1380	360	30	1051
Pearsall, Richard S., Sea Cliff, N. Y. Construction of buildings	311,031	Jan. 20	1133	309	30	224
Pearson, Charles and W., Webster, N. H. Indicator-lock	313,232	Mar. 3	294	74	30	830
Pearson, Doyel, Memphis, Tenn. Hot-air fire-place	322,034	July 31	1650	436	32	316
Pearson, Doyel, Memphis, Tenn. Hot-air fire-place	332,429	Dec. 15	1730	453	33	1320
Pearson, Edward, and J. Kitson, Cadiz, Ohio. Furnace for melting glass, &c.	330,050	Nov. 10	848	219	33	672
Pearson, George D., assignor of one-half to J. and P. Wallace, Montreal, Quebec, Canada. Car-coupling	332,430	Dec. 15	1731	453	33	1320
Pearson, Henry F., and G. W. Jarmin, Genoa, Nebr. Check-row corn-planter	318,650	May 26	2304	616	31	971
Pearson, Jacob L., Philadelphia, Pa. Gripper for cable railways	315,329	Apr. 7	471	119	31	86
Pearson, Joseph J., assignor to himself and J. M. Cox, Batesville, Miss. Bee-hive	327,716	Oct. 6	298	73	33	50
Pearson, Robert L., Chesterville, Md. Corn-harvester	319,310	June 2	450	123 124	31	1135
Pearson, William. (See Pearson, Charles and W.)						
Pearson, William E., Saugus, Mass. Steam-muffler	318,651	May 26	2306	616	31	972
Pearson, William E., Saugus, Mass. Pop safety-valve	320,320	June 16	1794	477	31	1389
Pearson, William E., Saugus, Mass. Heating feed-water by exhaust-steam	332,555	Dec. 15	1910	500	33	1351
Pearson, Wright, Jamestown, N. Y. Step-ladder	325,441	Sept. 1	305	74	32	1073
Pease, Charles F. (See Webster and Pease.)						
Pease, Chauncey D., New York, N. Y. Ornamental panel	329,771	Nov. 3	466	118	33	594
Pease, Edwin H., Racine, Wis. Fanning-mill	312,157	Feb. 10	955	360 261	30	533
Pease, Franklin B. (See Heumann and Pease.)						
Pease, Horace S., Portage, Wis. Sad-iron	324,585	Aug. 18	1600	441	32	837
Pease, John F., Syracuse, N. Y. Steam-beller	332,748	Dec. 22	2192	578 579	33	1410
Pease, Julius A., West Medford, and G. J. Babeon, Boston, Mass. Paper-pulp fabric for boxes, &c.	314,054	Mar. 17	1381	360	30	1051
Pease, Robert R., assignor to Hartford Woven Wire Mattress Company, Hartford, Conn. Bedstead-frame	333,329	Dec. 29	2997	785	33	1561
Pease, Warren H. (See Webster and Pease.)						
Pease, William M., assignor of one-half to L. Simpson, Pittsburg, Pa. Receiving-instru- ment for electrical reporting	312,563	Feb. 17	1442	396	30	631
Pease, William M., assignor of one-half to L. Simpson, Pittsburg, Pa. Alarm mechanism and apparatus for operating the same	312,504	Feb. 17	1444	396	30	632
Pease, William M., assignor of one-half to L. Simpson, Pittsburg, Pa. Railway-alarm mechanism	313,614	Mar. 10	787	207	30	932
Pease, William M., assignor of one-half to L. Simpson, Pittsburg, Pa. Railway-signal	332,431	Dec. 15	1732	454	33	1320
Peaseley, Edward A., Painesville, Ohio. Lifting-jack	322,315	July 14	1313	319	32	231
Peavey, Andrew J., Boston, Mass. Tool-holder	323,727	Aug. 4	451	128	32	607
Pech, Gustavus, Storm Lake, Iowa. Apparatus for boring wells	315,826	Apr. 14	1178	307	31	221
Peck, Cassius C., New York, N. Y. Apparatus for distilling and concentrating liquids	329,072	Oct. 27	2098	545 546	33	403
Peck, Cassius C., New York, N. Y. Distilling and concentrating liquids	329,073	Oct. 27	2102	545 546	33	403
Peck, Cassius C., New York, N. Y. Distilling and concentrating liquids	329,074	Oct. 27	2107	546	33	404
Peck, Daniel B., Jackson, Mich. Fence	315,227	Apr. 14	1179	308	31	221
Peck, Daniel G. (See Sampson and Peck.)						
Peck, Edmund C., Chicago, Ill. Vapor-burner	329,481	Nov. 3	75	20	33	519
Peck, Edward D., Sayre, Pa. Reflector	310,611	Jan. 13	579	160	30	117
Peck, Edward S., Brooklyn, assignor to New York Stationery and Envelope Company, New York, N. Y. Package for stationery	312,756	Feb. 24	1771	487	30	702
Peck, Edward W., et al. (See Sabin, Alvah H., assignor.)						
Peck, Eugene H., Jersey City, assignor of one-half to R. Morrell, Summit, N. J. Machine for making and affixing tin tags to plug-tobacco	327,306	Sept. 29	2818	735	32	1558
Peck, Henry L., Newark, Ohio. Draw-bar	328,969	Oct. 27	1944	507	33	376
Peck, Henry S., assignor to A. F. Phelps, Westfield, N. Y., and North East Heading Com- pany, North East, Pa. Baby-jumper	331,434	Dec. 1	257	69	33	1044
Peck, Henry T. (See Whittlesey, Charles E., assignor.)						
Peck, Homer P. K., and F. Thomassen, New York, N. Y. Coffee-tank	328,060	Oct. 13	724	189	33	137
Peck, Horace B. (See Parrish, Myron W. and M. F., assignors.)						
Peck, Horace B. (See Parrish and Munn, assignors.)						
Peck, James F., assignor of one-half to J. W. Lucas, Carrolton, Ind. Gate	322,000	July 14	812	213	32	156
Peck, John E. (See Hamaker and Peck.)						
Peck, Orrin B., Chicago, Ill. Vapor-burner	317,567	May 12	858	221	31	687
Peck, Stow & Wilcox Company. (See Bayrer, William J., assignor.)						
Peck, Stow & Wilcox Company. (See Lucas, Edwin, assignor.)						
Peck, T. S., et al. (See Sabin, Alvah H., assignor.)						
Peckett, J. W. (See Davis, Merwin, assignor.)						
Peckham, Edgar, Syracuse, N. Y. Lining for the grooves of pipe-welding furnaces	313,102	Mar. 3	84		30	792
Peckham, Edgar, Syracuse, N. Y., assignor to Lake Shore Tubular Axle Company, Clevel- land, Ohio. Tubular axle	313,517	Mar. 10	662	172	30	909
Peckham, William C., Troy, Ohio. Double-tree	329,075	Oct. 27	2109	547	33	404
Peckham, William H., New York, N. Y. Spectacles	328,513	Oct. 20	1309	340	33	255
Peckover, James, Philadelphia, Pa. Machine for sawing stone	330,614	Nov. 17	1582	423 424	33	823
Pedder, John, Pittsburg, Pa. Furnace for melting glass, &c.	333,728	Aug. 4	453	138	32	608

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Pedersen, Johannes, Copenhagen, Denmark. Adjustable school seat and settee.....	321,242	June 30	3096	823	31	1644
Pedersen, Johannes T., Brooklyn, N. Y. Device for transmitting motion	311,255	Jan. 27	1462	400	30	290
Pedersen, Johannes T., Brooklyn, N. Y. Bit-brace.....	313,950	Mar. 17	1262	329	30	1028
Pedersen, Johannes T., Brooklyn, N. Y. Bit-stock.....	317,187	May 5	352	89	31	588
Pedersen, Mikael. (See Nielsen and Pedersen.)						
Pedersen, Sigward, Chicago, Ill., and T. Sernedinger, Philadelphia, Pa. Safety device for railway-cars.....	320,390	June 16	1985	522	31	1424
Pederson, Ole, Columbus, Ohio. Ruler.....	317,188	May 5	354	89	31	588
Pederson, Ole, Columbus, Ohio. Heating stove.....	319,018	June 2	106	29	31	1068
Pedricord, Louis W., St. Joseph, Mo. Elevator alarm-bell.....	318,902	May 19	1703	456	31	854
Pedrick, Knott H., Lynn, assignor of one-half to C. D. Palmer, Lowell, Mass. Envelope.....	311,915	Feb. 10	608	167	30	469
Peebles, Charles F. (See Conner and Peebles.)						
Peebles, Charles F., Berea, Ohio. Rock-drilling machine.....	331,435	Dec. 1	258	69	33	1044
Peebles, Francis A., assignor of one-half to A. Boulden, Hinkley, Ohio. Crutch.....	313,518	Mar. 10	664	172	30	902
Peck, Felix G. C., Philomath, Ga. Household-furniture.....	318,132	May 19	1614	431	31	837
Peck, James A., assignor of one-half to C. F. Nofztger and J. S. Andrews, North Manchester, Ind. Harvester.....	322,001	July 14	813	213	32	156
Peele, Charles D. M. (See Brooks, Henry J. H., assignor.)						
Peelman, Albano F., Kensington, Ill. Combined saw-set and nail-punch.....	319,019	June 2	107	29	31	1068
Peeney, Samuel B., assignor of one-half to J. Patrick, Evanston, Ill. Main for water-distribution.....	312,158	Feb. 10	956	261	30	533
Peeple, William A., Waltham, Mass. Gate.....	322,316	July 14	1214	319	32	231
Peer, John A., assignor of one-half to Thompson & Norris, Brooklyn, N. Y. Powder-gun.....	326,324	Sept. 15	1467	387	32	1304
Peer, Perry A., Comstock, assignor of one-half to B. S. and M. B. Williams and H. Mauvel, Kalamazoo, Mich. Crank-shaft.....	315,060	Apr. 7	106	25	31	21
Peerless Manufacturing Company. (See Rice, Arthur, assignor.)						
Peerless Oil Ejector Company. (See Schmitt, Phillip L., assignor.)						
Peets, Charles, Rochester, N. Y. Potato-digger and bean-harvester.....	331,321	Dec. 1	87	21	33	1014
Pegg, James P., North Pelham, Ontario, Canada. Hay-rack elevator.....	324,483	Aug. 18	1467	402	32	810
Pegram, George H., Wilmington, Del. Truss for bridges.....	314,261	Mar. 24	1650	438	30	1109
Pegram, George H., Wilmington, Del. Truss for roofs and bridges.....	314,262	Mar. 24	1653	438 439	30	1110
Peirano, Joe B., New York, N. Y. Implement for gymnastic performances with rats, birds, &c.....	320,960	June 30	2733	727	31	1578
Peirce, James H. (See Royce, Charles H., assignor.)						
Peirce, James H., Chicago, Ill. Hermetical seal for liquid fire-extinguishing hand-grenades.....	314,148	Mar. 17	1509	395	30	1074
Peirce, James M., Joliet, Ill. Automatic railway-signal.....	323,958	Aug. 11	745	207 208	32	670
Peirce, John K., Buffalo, Ill. Cultivator.....	310,847	Jan. 13	876	237	30	171
Peirce, Maynard F. (See Wilson, Spear, and Peirce.)						
Peirce, William E., Newark, N. J. Electric time-lock.....	322,317	July 14	1214	319	32	231
Peirce, William H., and J. A. Russell, Centreville, Mich. Dental plate.....	321,847	July 7	611	157	32	111
Pelant, Henry, Wyandotte, Mich. Heel-stiffener.....	313,682	Mar. 10	868	226	30	940
Pelisse, Auguste, Newark, N. J., assignor to J. T. Waring, Yonkers, N. Y. Machine for felting hat-bodies.....	320,391	June 16	1985	522	31	1424
Pell, Henry W., Rome, N. Y. Drop-perch for vehicles.....	314,714	Mar. 31	2259	600	30	1247
Pell, Henry W., Rome, N. Y. Drop-perch for vehicles. (Release).....	10,616	June 23	2655	705	31	1558
Pell, Ogden P., Brooklyn, N. Y. Combined can and ejector.....	323,250	Dec. 29	2890	756	33	1541
Pelonbet, Jarvis, Bloomfield, N. J. Organ-action.....	329,674	Nov. 3	332	85	33	509
Pelton, Edward D. (See Hamilton, William M., assignor.)						
Pelton, George M., Belmont, N. Y. Saw-mill head-block.....	327,103	Sept. 29	2558	667	32	1510
Pelton, George M., Belmont, N. Y. Valve-gearing.....	331,436	Dec. 1	259	70	33	1044
Pelz, Wilhelm, assignor to F. Krupp, Essen, Germany. Making car-wheels.....	322,635	July 21	1651	436	32	316
Pelzer, Edward N. (See Buckler, Cain, Tanbert, and Pelzer.)						
Pement, Edward, Esmond, Dak. Ter. Lathe-chuck.....	322,636	July 21	1652	436	32	316
Pence, Merry L., Lexington, Ky. Safety gas-burner.....	312,891	Feb. 24	1948	533	30	732
Pence, Oliver P., Des Moines, Iowa. Hydrant.....	325,764	Sept. 8	739	185	32	1158
Pencilie, Jethro E., assignor of one-half to J. C. Cupter, Kendall, Pa. Mechanism for converting motion.....	312,738	Feb. 17	1258	347	30	598
Pendergast, Thomas H., Louisville, Ky. Device for hanging harness.....	327,585	Oct. 6	110	25	33	20
Pendleton, John H. (See Tiers and Pendleton.)						
Pendleton, John H., Brooklyn, N. Y. Railway.....	312,009	Feb. 10	745	204	30	494
Pendleton, John H., Brooklyn, N. Y. Cable railway.....	317,008	May 5	106	27	31	541
Pendleton, John H., Brooklyn, N. Y., assignor to himself, A. H. and C. Tiers, Madison, N. J., W. G. Stephens, Chicago, Ill., and J. B. Dickson, Morristown, N. J. Drill.....	319,614	June 9	883	224	31	1220
Pendleton, John M., assignor to Equitable Electric Company, New York, N. Y. Electric motor.....	321,040	June 30	2849	758	31	1600
Pendleton, John M., assignor to Equitable Electric Company, New York, N. Y. Electric locomotion.....	323,109	July 28	2443	648	32	469
Pendleton, William M., et al. (See Jesse, Robert, assignor.)						
Penglase, William. (See Davies and Penglase.)						
Peninsular Novelty Company. (See Ely, Edward O., assignor.)						
Peninsular Novelty Company. (See Monilton, Luther V., assignor.)						
Peninsular Novelty Company. (See Vinton, John H., assignor.)						
Peninsular Stove Company. (See Alley, John O., assignor.)						
Penman, John. (See Schofield and Davidson, assignors.)						
Pennell, Lloyd W., et al. (See Taylor, Eugene H., assignor.)						
Penney, Edgar, Waynesborough, Pa. Steam gang-plow.....	316,388	Apr. 21	1934	510	31	363
Penney, Edgar, Waynesborough, Pa. Steam gang-plow.....	316,389	Apr. 21	1935	511	31	363
Penney, Edgar, Waynesborough, Pa. Steam gang-plow.....	316,390	Apr. 21	1936	511	31	363
Penney, Edgar, Waynesborough, Pa. Steam gang-plow.....	316,391	Apr. 21	1938	511	31	363
Penney, Edgar, Waynesborough, Pa. Steam gang-plow.....	316,392	Apr. 21	1940	511	31	363
Penney, Edgar, Waynesborough, Pa. Steam gang-plow.....	316,393	Apr. 21	1941	512	31	364
Penney, Edgar, Waynesborough, Pa. Speed-governor.....	322,637	July 21	1653	437	32	316
Penney, Joseph, Grand Rapids, Mich. Desk, wash-stand, and other furniture.....	332,360	Dec. 15	1638	429	33	1304
Pennie, John, Jr. (See Calhoun, Walter, assignor.)						
Penniman, Russell S. (See Schrader, John C., assignor.)						
Penniman, Russell S., Jenkintown, Pa. Apparatus for drying fusible salts.....	321,636	July 7	305	81, 82	32	58
Penniman, Russell S., Jenkintown, Pa., assignor of one-half to J. C. Schrader, McCainsville, N. J. Protected nitrate of ammonia for use in explosive compounds.....	312,010	Feb. 10	747		30	495
Penniman, Russell S., Jenkintown, Pa., assignor of one-half to J. C. Schrader, McCainsville, N. J. Explosive compound.....	320,583	June 22	2245		31	1480
Penniman, Russell S., and J. C. Schrader, Dover, N. J., assignors to Atlantic Dynamite Company, Repanno Chemical Company, and Hercules Powder Company. Dynamite.....	333,149	Dec. 29	2750		33	1516

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Penniman, Russell S., and J. C. Schrader, Dover, N. J., assignors to Atlantic Dynamite Company, Repanno Chemical Company, and Hercules Powder Company. Dynamite.....	333,150	Dec. 29	2752	33	1516
Penniman, Russell S., and J. C. Schrader, Dover, N. J., assignors to Atlantic Dynamite Company, Repanno Chemical Company, and Hercules Powder Company. Gelatinated explosive.....	333,151	Dec. 29	2754	.....	33	1516
Penniman, Russell S., Dover, N. J., assignor to Atlantic Dynamite Company, Repanno Chemical Company, and Hercules Powder Company. Explosive compound.....	333,152	Dec. 29	2755	.....	33	1516
Pennington, Charles A., assignor to J. R. Scott and J. L. Ray, Champaign, Ill. Nut-lock.....	314,194	Mar. 17	1567	414	30	1084
Pennington, Edward J., Cincinnati, Ohio, and A. E. Gatchell, Newport, Ky., assignors to H. R. Probasco, trustee. Multiplex turning-lathe.....	310,538	Jan. 6	482	{ 134 135 }	30	92
Penny, Benjamin F., Rochester, N. Y. Machine for cutting meat.....	321,751	July 7	463	122	32	86
Pennycook, James G., New York, N. Y. Window-glass.....	312,290	Feb. 17	1149	314	30	577
Pennycook, James G., Boston, Mass. Forming screw-threads on glass.....	324,157	Aug. 11	1019	278	32	719
Pennock, George B., Philadelphia, Pa. Underground conduit for electric wires.....	323,712	Oct. 20	1584	415	33	304
Pennock, Samuel, Kennett Square, Pa. Road-machine.....	315,541	Apr. 14	793	210	31	147
Pennock, Samuel, assignor to S. Pennock & Sons Company, Kennett Square, Pa. Road-grader.....	318,019	May 19	1468	393	31	809
Pennock & Sons Company, S. (See Pennock, Samuel, assignor.)						
Pennsylvania Patent Right Company. (See Lesley and Griffith, assignors.)						
Pennsylvania Salt Manufacturing Company. (See Blinn, George F., assignor.)						
Penrod, John F., Blairville Intersection, Pa. Railway-switch.....	328,608	Oct. 20	1447	377	33	278
Pentecost Steam Generating Company. (See Pentecost, William A., assignor.)						
Pentecost, William A., Worcester, Mass. Steam-generator.....	315,160	Apr. 7	241	59	31	44
Pentecost, William A., assignor to Pentecost Steam Generating Company, Worcester, Mass., and Nashua, N. H. Steam-generator.....	328,140	Oct. 13	820	214	33	155
Pentreath, John. (See Brown, Douglass, and Pentreath.)						
Pentreath, John, Yonkers, N. Y. Potato-digger.....	331,082	Nov. 24	2190	593	33	946
Pentucket Variable Stitch Sewing Machine Company. (See Woodward and Keith, assignors.)						
Pents, Albert D., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Tension device for sewing-machines.....	319,744	June 9	1043	276	31	1249
Pents, Albert D., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Sewing-machine.....	330,419	Nov. 17	1342	{ 357 358 }	33	776
Pents, Levi, assignor of two-thirds to G. N. Yohe and J. L. Higby, Canton, Ohio. Door-check.....	311,604	Feb. 3	195	55	30	385
Pents, Levi, assignor of two-thirds to J. L. Higley and G. N. Yohe, Canton, Ohio. Barrel-elevator.....	319,119	June 2	231	60, 61	31	1090
People's Telephone Company. (See Drawbaugh, George W., assignor.)						
Peoria Target Company. (See Damm, Fred C., assignor.)						
Peoria Target Company. (See Stock, Charles F., assignor.)						
Peple, Anthony, Brooklyn, N. Y. Substitute for billiard-cue chalk.....	315,828	Apr. 14	1180	.....	31	221
Pepper, De Watt, New Milford, Conn. Composition of matter for coating boxes made from paper, straw, or paste board.....	333,330	Dec. 29	2998	.....	33	1561
Pepper, William H. (See Davis, Albert T. L., assignor.)						
Peppers, Albert E., et al. (See Lenhardt, George, assignor.)						
Peregrine, Seymour W., Minneapolis, Minn. School seat and desk.....	326,774	Sept. 22	2101	546	32	1422
Pereira y Albizu, Pedro, Madrid, Spain. Speaking tube.....	326,450	Sept. 15	1636	428	32	1332
Perfection Manufacturing Company. (See Camp, Charles B., assignor.)						
Perham, Haven C. (See Clarke and Perham.)						
Perin, Samuel H., Jeffersonville, Ind. Sad-iron mold.....	329,943	Nov. 10	706	181	33	644
Perine, Aaron B., Topeka, Kans. Thrill-coupling.....	324,725	Aug. 18	1801	497	32	873
Perk, Herman. (See Eperts and Perk.)						
Perkins, Alfred H., Leominster, Mass. Flower-pot stand.....	312,159	Feb. 10	958	261	30	533
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Electro-magnetic motor.....	315,161	Apr. 7	243	59	31	44
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Conduit for electrical conductors.....	319,998	June 16	1412	371	31	1321
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Incandescent lamp.....	326,584	Sept. 22	1607	475	32	1372
Perkins, Charles G., assignor to Imperial Electric Light Company, New York, N. Y. Clamping device for incandescent electric lamps.....	331,002	Nov. 24	2092	566	33	926
Perkins, Charles H., Providence, R. I. Manufacture of toe-calks for horse and mule shoes.....	312,011	Feb. 10	748	204	30	495
Perkins, Charles H., Providence, R. I. Treating stock for horseshoe-calks.....	312,505	Feb. 17	1445	396	30	632
Perkins, Edwin F. (See Burton and Perkins.)						
Perkins, Edwin F., and G. D. Burton, Boston, Mass. Stock-car.....	310,463	Jan. 6	381	106	30	74
Perkins, Eliab, St. Joseph, Mo. Operating doors and shutters.....	318,325	Sept. 15	1488	398	32	1304
Perkins, Floyd N., Bellefontaine, Ohio. Door-lock.....	315,657	Apr. 14	944	247	31	176
Perkins, Francis C. (See Kelley, Charles H., assignor.)						
Perkins, Francis C., et al. (See Bingham, Charles W., Jr., assignor.)						
Perkins, Francis C., Somerville, and C. H. Kelley, Revere, Mass. Cash-carrier.....	318,287	May 19	1809	484	31	874
Perkins, Francis C., and C. H. Kelley, Boston, Mass. Cash-carrier.....	321,752	July 7	464	123	32	86
Perkins, George H. (See Weaver, E. Forrest, assignor.)						
Perkins, George H., Philadelphia, Pa. Apparatus for separating and distributing distillates.....	314,715	Mar. 31	2260	600	30	1249
Perkins, George H., Philadelphia, Pa., and O. Smith, Bridgeton, N. J., said Smith assignor to said Perkins. Apparatus for automatically soldering the seams of sheet-metal cans.....	314,468	Mar. 24	1926	{ 515 516 517 }	30	1192
Perkins, George H., Philadelphia, Pa., and O. Smith, Bridgeton, N. J., said Smith assignor to said Perkins. Mechanical movement for reversing motion.....	314,469	Mar. 24	1938	{ 516 517 }	30	1163
Perkins, James P., Pullman, Ill. Paint.....	318,791	May 26	2497	.....	31	1005
Perkins, James P., Pullman, Ill. Making brick, &c.....	318,792	May 26	2498	.....	31	1005
Perkins, John M., South Bend, Ind. Bow for vehicle-tops.....	326,585	Sept. 22	1808	475	32	1372
Perkins, Joseph T. (See Hanse, William, assignor.)						
Perkins, Michael R., Portsmouth, N. H. Railway-rail brace.....	327,013	Sept. 29	2431	636	32	1489
Perkins, Miner T., assignor of one-half to A. Baum, Mount Sterling, Ky. Hinge for gates.....	318,288	May 19	1810	484	31	874
Perkins, Paul B., North Springfield, Mo. Condenser for steam-engines.....	320,087	June 16	1531	405	31	1343
Perkins, Paul B., North Springfield, Mo. Self-lubricating car-wheel.....	321,243	June 30	3097	823	31	1644
Perkins, Paul B., North Springfield, Mo. Hydraulic engine.....	325,965	Sept. 8	290	252	32	1205
Perkins, Richard B. (See Heilman and Perkins.)						
Perkins, Russell B., assignor to E. Miller & Co., Meriden, Conn. Extension lamp-fixture.....	311,779	Feb. 3	413	112	30	428
Perkins, Sidney, Stanford, Ky. Bee-hive.....	331,539	Dec. 1	401	108	33	1070
Perkins, William C., assignor to Wire Goods Company, Worcester, Mass. Screw or drive hook.....	316,650	Apr. 28	2390	601	31	434
Perkins, William C., assignor of one-half to H. F. Arms, Worcester, Mass. Frame for stretching and drying stockings.....	324,880	Aug. 25	2021	554	32	921

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Perkins, William H., Owensborough, Ky. Writing-machine for the blind	329,675	Nov. 3	332	85	33	568
Perkins, William J., Elliotstown, assignor of two-thirds to M. Dieterich, Dieterich, and H. Lambert, Wheeler, Ill. Baling-press	315,062	Apr. 7	108	25	31	21
Perkins, Willis J., Grand Rapids, Mich. Shaft-hanger	311,780	Feb. 3	414	112	30	436
Perkins, Willis J., Grand Rapids, Mich. Shingle-sawing machine	314,603	Mar. 31	2114	563 564	30	1221
Perkins, Willis J., Grand Rapids, Mich. Shingle	315,061	Apr. 7	106	25	31	21
Perkins, Willis J., Grand Rapids, Mich. Thill-coupling	316,565	Apr. 28	2178	574	31	414
Perkins, Willis J., Grand Rapids, Mich. Circular saw	320,681	June 23	2375	628	31	1504
Perkins, Willis J., Grand Rapids, Mich. Circular saw mill	321,525	July 7	164	44	32	33
Perkins, Willis J., Grand Rapids, Mich. Shingle-sawing machine	325,693	Sept. 8	631	160	32	1138
Perley, Charles A., et al. (See Boscawen, William, assignor.)						
Perley, Charles A., et al. (See Odell, Benjamin C., assignor.)						
Perley, Charles A., assignor to Thompson, Perley & Waite, Baldwinville, Mass. Tilting-chair	324,954	Aug. 25	2117	570	32	940
Perley, John K., New York, N. Y. Convertible chair	332,225	Dec. 15	1529	401	33	1236
Perlich, Hermann, Baltimore, Md. Fumigator	315,330	Apr. 7	473	120	31	86
Perlinsky, Abraham B., Chicago, Ill. Mitten	312,653	Feb. 24	1630	449	30	677
Perret, Paul V., Chaux-de-Fonds, Switzerland. Stop-watch	315,829	Apr. 14	1180	308	31	921
Perrett, Edward. (See Boulton and Perrett.)						
Perrett, Edward. (See Hodgkin and Perrett.)						
Perrin, Charles, assignor of one third to D. W. Brewer, Springfield, Ohio. Combined hay rake and tedder	311,847	Feb. 3	496	136	30	442
Perrin, James W. (See Goldsmith, Ferdinand, assignor.)						
Perrin, Thomas J., Brooklyn, assignor to C. P. Huntington, New York, N. Y. Electrical switch-board	315,331	Apr. 7	474	120	31	86
Perrin, Thomas J., Brooklyn, assignor to C. P. Huntington, New York, N. Y. Multiple switch-board	315,332	Apr. 7	476	120 121	31	87
Perrin, Thomas J., Brooklyn, assignor to C. P. Huntington, Greenville, Miss. Multiple switch-board	315,333	Apr. 7	477	121	31	87
Perrin, Thomas J., Brooklyn, assignor to C. P. Huntington, Greenville, Miss. Circuit for telephone-exchanges	315,334	Apr. 7	478	121	31	87
Perrin, Thomas J., Brooklyn, N. Y., assignor to C. P. Huntington, Greenville, Miss. Multiple switch-board	315,658	Apr. 14	945	247 248	31	176
Perrin, Thomas J., Brooklyn, assignor to C. P. Huntington, New York, N. Y. Multiple switch-board	316,394	Apr. 21	1943	512	31	364
Perrin, Thomas J., Brooklyn, assignor to C. P. Huntington, New York, N. Y. Multiple switch-board	316,395	Apr. 21	1946	513	31	364
Perrin, Thomas J., Brooklyn, N. Y., assignor, by meane assignments, to National Improved Telephone Company, New Orleans, La. Telephone	316,816	Apr. 28	2539	663	31	480
Perrin, Thomas J., New York, N. Y., assignor to National Improved Telephone Company, New Orleans, La. Induction-coil	316,817	Apr. 28	2540	664	31	480
Perrin, Thomas J., New York, N. Y., assignor, by meane assignments, to National Improved Telephone Company, New Orleans, La. Telephone	316,818	Apr. 28	2540	664	31	480
Perrin, Thomas J., New York, N. Y., assignor to National Improved Telephone Company, New Orleans, La. Telephone-switch	322,122	July 14	977	255	32	187
Perrin, Thomas J., Brooklyn, N. Y., assignor to National Improved Telephone Company, New Orleans, La. Telephone-transmitter and relay	324,726	Aug. 18	1801	497	32	874
Perrin, Thomas J., Brooklyn, N. Y., assignor to National Improved Telephone Company, New Orleans, La. Telephone-transmitter and relay	324,727	Aug. 18	1803	498	32	874
Perrin, Thomas J., New York, N. Y., assignor to National Improved Telephone Company, New Orleans, La. Telephone-transmitting apparatus	324,728	Aug. 18	1804	498	32	874
Perrin, Thomas J., New York, N. Y., assignor to National Improved Telephone Company, New Orleans, La. Telephone-transmitter	324,729	Aug. 18	1805	499	32	874
Perrin, Thomas J., New York, N. Y., assignor to National Improved Telephone Company, New Orleans, La. Induction-coil	329,772	Nov. 3	468	118	33	594
Perrine, George W., Canton, Ohio. Hoe	312,218	Feb. 10	1038	224	30	548
Perrine, H. Lansing, Brooklyn, N. Y. Compound steam-engine	313,366	Mar. 3	462	119	30	862
Perrine, H. Lansing, New York, N. Y. Steam-actuated valve	313,367	Mar. 3	464	120	30	862
Perrine, Thomas N., Anna, Ill. Governor for steam-engines	316,813	Feb. 24	1949	534	30	732
Perring, Merrick E., Berrien Springs, Mich. Feeder for thrashing-machines and clover-hullers	316,819	Apr. 28	2541	664	31	480
Perron, Leon, assignor of one-fourth to C. Hohly, Toledo, Ohio. Broom-winding machine	329,482	Nov. 3	77	21	33	519
Perrott, Philip T., et al. (See Rouvier, Louis P., assignor.)						
Perry, Alfred C., Covington, Ga. Hand and arm rest	326,326	Sept. 15	1469	388	32	1305
Perry, Clarence E., assignor to himself, E. Smead, and J. B. Turner, Newton, Mass. Marking-brush	327,586	Oct. 6	111	25	33	91
Perry, Daniel W., Harrisburg, Pa. Scroll-sawing machine	322,748	July 21	1892	475	32	343
Perry, Ebenezer S., New Bedford, Mass. Car-ventilator	329,591	Nov. 3	929	59	33	549
Perry, Edward L., Paterson, N. J., assignor to himself and H. S. Winans, New York, N. Y. Bladder-valve	329,773	Nov. 3	469	118	33	594
Perry, Eugene F. (See Benson and Perry.)						
Perry, Frank L., Baltimore, Md. Box-opener	327,621	Oct. 6	413	107	33	79
Perry, Frank W., Philadelphia, Pa. Sheet-metal cap	331,999	Dec. 8	1112	920	33	1206
Perry, Isaac A., Wilmington, Del. Railway-frog	313,368	Mar. 3	465	120	30	863
Perry, John, Falgarth Road, and W. E. Ayrton, Cowper Street, county of Middlesex, England. Electrical conductor for railways, &c.	326,237	Sept. 15	1360	352	32	1280
Perry, Mary J., et al. (See Hardy, Dexter D., assignor.)						
Perry, Reuben W., Saundersville, Mass. Flower-pot shelf	323,525	Aug. 4	187	54, 55	32	557
Perry, Reuben W., Saundersville, Mass. Drawer	327,104	Sept. 29	2559	667	32	1511
Perry, Rowland R., Peace Dale, R. I. Snare-drum	324,881	Aug. 25	2022	554	32	921
Perry, Stuart, Newport, N. Y. Nail-driver	317,169	May 5	354	89, 90	31	568
Perry, Stuart, Newport, N. Y. Nail-arranger	317,658	May 12	859	221	31	687
Perry, Stuart, Newport, N. Y. Lathing apparatus	318,495	May 26	2088	564 565 601 602	31	934
Perry, Stuart, Newport, N. Y. Nail-feeding apparatus	332,826	Dec. 22	2281	603	33	1477
Perry, Stuart, Newport, and D. A. Sprague, Poland, N. Y. Three-wheeled dray	328,514	Oct. 20	1310	340	33	255
Perry, Theodore A., Plymouth, N. C. Cotton-seed crusher	320,682	June 23	2376	628	31	1504
Perry, Thomas O. (See Noyes and Perry.)						
Perry, William, and J. A. Prince, Indianapolis, Ind. Broom-cover	313,233	Mar. 3	294	74	30	830
Perry, William A., et al. (See Bicknell, William A. P., assignor.)						
Perry, William H., Sharon, Pa. Nail	328,515	Oct. 20	1311	341	33	255
Perry, William V., Chicago, Ill. Car-coupling	310,720	Jan. 13	718	196	30	142

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Perschmann, Heinrich, <i>et al.</i> (See Roettger, Edward C., assignor.)						
Pershing, Walter B., South Bend, Ind. Combined petit ledger and blotter.	323,729	Aug. 4	455	129	32	609
Person, Joseph E., near Fremont, N. C. Manure-distributor	331,540	Dec. 1	403	109	33	1071
Pert, Henry G. (See Hakens, George B., assignor.)						
Pertz, John W., assignor of one-half to G. E. Williams, Pittsburg, Pa. Power mechanism for actuating steam-hammers, &c.	325,860	Sept. 8	865	{ 217 218 }	{ 32 32 }	{ 1181 1181 }
Pertz, John W., assignor of one-half to G. E. Williams, Pittsburg, Pa. Automatic safety regulator-valve	330,615	Nov. 17	1583	494	33	823
Peru City Plow Company. (See Bettendorf, William P., assignor.)						
Peschel, Alexander, assignor to W. Fischbach, Berlin, Germany. Cigar lighter and cutter.	312,654	Feb. 24	1630	449	30	677
Possano, Antonio C., assignor to G. V. Cresson, Philadelphia, Pa. Pulley	315,335	Apr. 7	480	131	31	88
Possano, Antonio C., assignor to G. V. Cresson, Philadelphia, Pa. Pulley	315,336	Apr. 7	482	132	31	88
Pessenger, John S., Brooklyn, N. Y. Machine for setting springs	316,820	Apr. 28	2543	665	31	481
Pessenger, John S., Brooklyn, N. Y. Steam-boiler	319,130	June 2	232	61	31	1090
Pessenger, John S., Brooklyn, N. Y. Hydraulic stamping-press	330,730	Nov. 17	1738	468	33	854
Pessenger, John S., Brooklyn, N. Y. Air-supply apparatus for steam-boilers	332,941	Dec. 22	2444	{ 646 647 }	{ 33 33 }	{ 1457 1457 }
Pessenger, John S., Brooklyn, assignor of one-fourth to W. P. St. John, New York, N. Y. Shell	313,683	Mar. 10	868	226	30	949
Pester, Adolph, Brooklyn, N. Y. Note and memorandum book, &c.	325,008	Aug. 25	2194	601	32	952
Peter, Fritz, and H. Ruppel, Cleveland, Ohio. Hydrant	327,822	Oct. 6	414	106	33	73
Peterhanel, Frank, New York, N. Y. Machine for plucking beaver and other skins	331,906	Dec. 8	-980	{ 253 254 }	{ 33 33 }	{ 1182 1182 }
Peters, Andrew, Brooklyn, N. Y. Baking-powder	315,830	Apr. 14	1181		31	221
Peters, Andrew, Brooklyn, N. Y. Phosphate baking-powder	315,831	Apr. 14	1182		31	221
Peters, Andrew, Brooklyn, N. Y. Baking-powder	315,832	Apr. 14	1183		31	221
Peters, Andrew, Brooklyn, N. Y. Baking-powder	331,541	Dec. 1	404		33	1071
Peters, Andrew, Brooklyn, N. Y. Baking-powder	331,542	Dec. 1	405		33	1071
Peters, Daniel, Cincinnati, Ohio. Combined mixer and sifter	319,311	June 2	461	124	31	1135
Peters, G. Moore, Xenia, Ohio. Manufacture of cartridge-shells and other receptacles from paper-pulp	321,848	July 7	612	158	32	111
Peters, G. Moore, Xenia, Ohio. Manufacture of cartridge-shells and other receptacles from paper or wood pulp	321,849	July 7	614	158	32	112
Peters, Gordon D., London, England. Mattress	332,432	Dec. 15	1735	454	33	1321
Peters, John, Haverstraw, N. Y., assignor to Hydraulic Salt Forcing Company. Making and raising salt-brine from deep veins	327,307	Sept. 29	2890	736	32	1558
Peters, John, Haverstraw, N. Y., assignor to Hydraulic Salt Forcing Company. Apparatus for making and raising salt-brine from deep salt-veins	327,308	Sept. 29	2890	736	32	1558
Peters, John B. and L. M., Detroit, Mich. Carpet-cleaning machine	310,307	Jan. 6	195	53	30	37
Peters' Leather Dash Company. (See White, John E., assignor.)						
Peters, Louis M. (See Peters, John B. and L. M.)						
Peters, Randolph, and W. J. Swartzenburg, Hamilton, Ontario, Canada. Whip-holder	318,020	May 19	1469	393	31	810
Petersen, Charles J., Port Chester, N. Y. Suspension device	321,382	June 30	3971	874	31	1678
Petersen, Charles J., Port Chester, N. Y. Suspension device	324,724	Aug. 18	1799	497	32	873
Petersen, Charles J., Port Chester, N. Y. Suspension device	330,616	Nov. 17	1586	494	33	823
Petersen, Louis N., M. L. Harksen, and H. Hagge, Bryant, Iowa. Rotary harrow	326,775	Sept. 22	2105	547	32	1422
Petersen, Peter, Fremont, Nebr. Felly boring and mortising machine combined.	328,806	Oct. 20	1701	443	33	326
Petersilea, Carlyle, Boston, Mass. Mute-piano	329,592	Nov. 3	230	59	33	549
Peterson, B. Walker, Wheeling, W. Va. Method of and apparatus for setting tiles	325,009	Aug. 25	2195	601	32	953
Peterson, Charles A., Galesburg, Ill. Label-cabinet	310,312	June 2	462	124	31	1135
Peterson, Lars, Independence, Mo. Washing-machine	329,853	Nov. 3	581	149	33	613
Peterson, Nils C., and P. E. Larson, Minneapolis, Minn. Self-tallying pool-rack	332,827	Dec. 22	2284	602	33	1427
Peterson, William H., and M. C. Henley, Richmond, Ind.; said Peterson assignor to said Henley. Roller-skate	320,392	June 16	1988	523	31	1425
Petit, Emile, Saint Denis, near Paris, France. Safe	325,765	Sept. 8	741	185	32	1159
Petit, Nelsire F. Jr., Charleston, S. C. Type-writing machine	310,308	Jan. 6	196	53	30	37
Petraeus, Carl V., Camden, N. J. Manufacture of alumina by paper-mill sludge	312,894	Feb. 24	1950		30	733
Petraeus, Carl V., assignor to United States Chemical Company, Camden, N. J. Solution of acid phosphates	313,369	Mar. 3	466		30	863
Petrie, Charles S., <i>et al.</i> (See Ashworth, John, assignor.)						
Petteo Machine Works. (See Begley, Philip T., assignor.)						
Pettes, James A., Grand Manan, New Brunswick, Canada. Anchor	314,149	Mar. 17	1510	396	30	1074
Pettigrew, Charles, <i>et al.</i> (See Treat, Francis H., assignor.)						
Pettigrew, James R. (See Richards, Jonathan B., assignor.)						
Pettigrew, John. (See Young and Pettigrew.)						
Pettingell, Walter J., Lowell, Mass. Station-indicator	319,505	June 9	737	195	31	1191
Pettinger, John, Carpinteria, Cal. Combined shaft and pole for vehicles	316,651	Apr. 28	2292	602	31	435
Pettit, John B., Burlington, Iowa. Washing machine	316,821	Apr. 28	2544	665	31	481
Petty, John W., Omaha, Nebr. Barrel for machine-guns	328,713	Oct. 20	1596	416	33	305
Pouchen, Arthur G. (See Culp, Samuel T., assignor.)						
Pevey, Charles K., Worcester, Mass. Annunciator and fire-telegraph	317,569	May 12	863	221	31	688
Pew, Joseph N., Pittsburg, Pa. Joint for natural-gas conductors	317,009	May 5	107	27	31	542
Pew, Joseph N., Pittsburg, and T. L. Shields, Sewickley, Pa. Gas regulator and meter.	321,136	June 30	2964	{ 785 786 }	{ 31 31 }	{ 1619 1619 }
Pew, Joseph N., Pittsburg, Pa. Natural-gas conductor	321,637	July 7	307	82	32	59
Peyn, Charles V. (See Schmalz, Francois, assignor.)						
Peyn, Charles V., Brooklyn, N. Y. Watch-case bezel	320,384	June 23	2246	594	31	1480
Pfaff, Ludwig, San Francisco, Cal. Apparatus for dyeing	320,453	Nov. 3	78	21, 22	33	520
Pfannkuche, Gustave, assignor to Schuyler Electric Light Company, Hartford, Conn. Electric arc lamp	320,585	June 23	2247	595	31	1480
Pfannkuche, Gustav, Hartford, Conn., assignor to Schuyler Electric Light Company. Electric safety-fuse	332,286	Dec. 15	1530	401	33	1286
Pfan, Charles. (See Pfan, Edward G. and C.)						
Pfan, Edward G. and C., Cincinnati, Ohio. Faucet	319,845	June 9	1188	314	31	1274
Pfan, Julius, Lansingburg, assignor of one-half to J. W. Blessing, Albany, N. Y. Stop-valve	326,238	Sept. 15	1365	{ 352 353 }	{ 32 32 }	{ 1280 1280 }
Pfandler, Casper, Rochester, N. Y. Making certain fermented beverages	318,793	May 26	2499	667	31	1005
Pfandler, Casper, assignor to Pfandler Vacuum Fermentation Company, Rochester, N. Y. Pressure-regulator	323,364	July 28	2681	714	32	510
Pfandler Vacuum Fermentation Company. (See Pfandler, Casper, assignor.)						
Pfeifer, August F., Newark, N. J. Transom-lifter	311,256	Jan. 27	1463	400	30	290
Pfeifer, Peter, Durhamville, N. Y. Wash-board	327,823	Oct. 6	417	108	33	73
Pfeifer, Peter, Durhamville, N. Y. Device for conveying sheets of glass from the flattening-wheel through the annealing arch or tunnel	333,331	Dec. 29	2999	785	38	1561

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Pfeiffer, Emil C., Portsmouth, N. H. Tire-fastener	317,847	May 12	1228	325	31	756
Pfeiffer, Ernst, London, England. Furniture-caster	320,281	June 16	1795	477	31	1389
Pfeiffer, Jacob, Niagara Falls, assignor to himself and C. F. Heintz, Buffalo, N. Y. Tobacco-pipe	314,344	Mar. 24	1771	471	30	1133
Pfeil, Philip M., Pittsburg, Pa. Sand separating and washing machine	324,158	Aug. 11	1020	279	32	719
Pfeil, Philip M., Pittsburg, Pa. Sand separating and washing machine	324,159	Aug. 11	1022	279	32	720
Pfingst, John. (See Pfingst, Louis, assignor.)						
Pfingst, Louis, assignor to himself and J. Pfingst, New York, N. Y. Lubricator	322,123	July 14	979	255	32	187
Pfister, John J., San Francisco, Cal. Bathing-suit	318,133	May 19	1615	431 432	31	837
Pfaum, Nicholas, Port Jervis, N. Y. Metallic piston-packing	332,433	Dec. 15	1735	454	33	1321
Pfeighar, Frank P., New Haven, Conn. Folding music-stand	329,593	Nov. 3	221	60	33	549
Pfueger, Oliver J. (See Butz and Pfueger.)						
Phares, Richard. (See Dalton, Clarence L., assignor.)						
Phares, Thomas, Eureka, Cal. Lifting-jack	314,716	Mar. 31	2243	601	30	1248
Phelan, Jeremiah. (See O'Boiger, Thomas, assignor.)						
Phelps, A. F., et al. (See Peck, Henry S., assignor.)						
Phelps, Charles A., and W. W. Sterns, Humboldt, Iowa. Molding-clamp	332,942	Dec. 22	2445	647	33	1458
Phelps, Elnathan, Hartford, Mich. Combined fanning-mill and cockle-separator	317,412	May 5	655	167	31	642
Phelps, George. (See Stockton and Phelps.)						
Phelps, George A., et al. (See Frost, George, assignor.)						
Phelps, George H., et al. (See Frost, George, assignor.)						
Phelps, Herbert L. (See Hallenbeck and Phelps.)						
Phelps, Joseph, Newton, Mass. Car-coupling	327,014	Sept. 29	2432	636	32	1490
Phelps, Lucius J., New York, N. Y. Apparatus for maintaining electrical communication with moving vehicles	329,076	Oct. 27	2111	547	33	404
Phelps, Lucius J., New York, N. Y. Apparatus for maintaining electrical communication with moving vehicles	329,077	Oct. 27	2112	547	33	405
Phelps, Lucius J., New York, N. Y., assignor to Railway Telegraph Company, of New York. Railway-car telegraph	312,506	Feb. 17	1446	396 397	30	632
Phelps, Lyman E. (See Swift and Phelps.)						
Phelps, Lyman E., Rochelle, Ill. Combined ash pan and sifter	331,322	Dec. 1	89	21	33	1015
Phelps, Walter S., Wortendyke, N. J. Steam-actuated valve	313,684	Mar. 10	869	227	30	949
Phelps, William H., Stamford, Conn. File-holder	312,012	Feb. 10	750	205	30	495
Philadelphia Drainage Construction Company. (See Thayer, Russell, assignor.)						
Philadelphia Machinery Company. (See Chabot, Cyprion, assignor.)						
Philadelphia Machinery Company. (See Mills, Daniel, assignor.)						
Philbert, Wharton B., Linneus, Mo. Vehicle-step	315,833	Apr. 14	1184	308	31	221
Philbrick, George E., Manchester, N. H. Syringe	321,850	July 7	616	158	32	112
Phillippart, Simon, Fils, Paris, France, assignor to Electrical Power Storage Company, (limited.) London, England. Secondary battery or electric accumulator	311,445	Jan. 27	1729	471	30	338
Philippi, Ludwig H., Hamburg, Germany. Producing photo-relievs	321,244	June 30	3098		31	1644
Phillips, James, Nashville, Tenn. Hot-air fire-place	324,337	Aug. 11	1273	345	32	767
Philleo, Millard D. (See Clay and Philleo.)						
Phillip, Adelbert H., Philadelphia, Pa. Liquid-elevator	315,337	Apr. 7	483	122	31	88
Phillippe, Josiah, Bicknell, Ind. Gate	316,652	Apr. 28	2293	586 587	31	435
Phillippi, Abraham H., Reading, Pa. Pressure-regulator for carburetors, &c.	324,180	Aug. 11	1023	279	33	720
Phillippi, Abraham H., Reading, assignor of two-thirds to D. P. Dieterich and R. M. Pop- ham, Philadelphia, Pa. Signal-lantern	310,464	Jan. 6	322	106	30	74
Phillips, Andrew J., Fentonville, Mich. Snow-scraper	322,730	Aug. 4	456	129	32	608
Phillips, Charles, Richburg, N. Y. Rope-drill-jar	321,753	July 7	465	123	32	86
Phillips, Charles H., J. Troden, and J. Golling, Alpena, Mich. Fire and water proof paint	326,776	Sept. 22	2106		32	1423
Phillips, Charles L., and J. F. Ricketts, said Ricketts assignor of one-third to J. R. Mc- Glinchey, Pittsburg, Pa. Gas-regulator	322,002	July 14	814	213	32	157
Phillips, Columbus, assignor of two-thirds to G. J. Foreacre and J. B. Travis, Atlanta, Ga. Steam and air brake. (Reissue.)	10,564	Feb. 24	2151	585	30	769
Phillips, Darius T., Chicago, Ill. Combined burglar-alarm, match-safe, and sash-fast- ener	315,439	Apr. 7	631	163	31	113
Phillips, Delos. (See Harris, Levi, assignor.)						
Phillips, Edward, assignor of one-half to T. F. Beidler, Cleveland, Ohio. Wrench	331,158	Nov. 24	2302	623	33	965
Phillips, Edward C., assignor to Richmond Roller Skate and Caster Company, Richmond, and Katselman Bros., Ridgeville, Ind. Skate-clamp	329,844	Nov. 10	707	181	33	644
Phillips, Enoch, and T. Jones, Pulaski, Va. Preparing the charge for spelter-furnaces	323,959	Aug. 11	747	208	32	671
Phillips, Ezekiel P., assignor to H. C. Phillips, Blackstone, Mass. Device for adjusting cotton-silver eveners	330,201	Nov. 17	1825	492	33	869
Phillips, Ezra O., Coopersville, Mich. Churn	328,807	Oct. 20	1703	443	33	326
Phillips, George C., Providence, R. I. Mechanism for flushing tanks	315,063	Apr. 7	109	25	31	21
Phillips, George R., Providence, R. I. Packing for vessels, &c.	323,731	Aug. 4	456	129	32	608
Phillips, Henry C. (See Phillips, Ezekiel P., assignor.)						
Phillips, Henry L., New York, N. Y. Clock	329,078	Oct. 27	2114	547	33	405
Phillips, J. B. (See Phillis, Clarence, assignor.)						
Phillips, James B., New York, N. Y. Breast-shield	320,961	June 30	2734	727	31	1578
Phillips, James H., Richmond, Va. Fence	327,717	Oct. 6	289	72	33	50
Phillips, James R., Webster, Dak. Ter. Sod cutter and pulverizer	323,638	July 21	1655	437	32	317
Phillips, John L., Sullivan, Ind. Wrench	310,960	Jan. 20	1039	281	30	205
Phillips, Lewis F., et al. (See Just, John A., assignor.)						
Phillips, Mary, assignor to C. C. Carpenter, New York, N. Y. Bustle	324,338	Aug. 11	1273	346	32	768
Phillips, Richard, Nacogdoches, Tex. Portable pump, &c.	326,146	Sept. 15	1232	315	32	1264
Phillips, Stanley A., Amherst, Mass. Machine for bending tin-roofing cleats	312,013	Feb. 10	751	205	30	493
Phillips, Thomas, Orillia, Ontario, Canada. Tubular lantern	310,221	Jan. 6	77	20	30	17
Phillips, Thomas S., assignor of one-half to W. F. Strasmer, Buffalo, N. Y. Artificial tooth	325,626	Sept. 1	543	137	32	1118
Phillis, Clarence, assignor of one-half to J. B. Phillips, Pittsburg, Pa. Pipe-coupling	320,683	June 23	2377	629	31	1505
Phillis, Clarence, Pittsburg, assignor of one-half to T. Saw, Allegheny County, Pa. Com- bined wringer, washer, and mangle	328,516	Oct. 20	1312	341	33	255
Philpott, James H., Rising City, Nebr. Trace-carrier	313,519	Mar. 10	665	173	30	909
Philpott & Leuppie. (See Philpott, William A., Jr., assignor.)						
Philpott, William A., Jr., assignor to Philpott & Leuppie, Niagara Falls, N. Y. Felt-whip- per for paper-making machines	321,312	June 30	3181	848	31	1661
Phinney, Charles E., et al. (See Rumble, A. Carson, assignor.)						
Phinney, David. (See Newbury, Charles H., assignor.)						
Phippis, Henry P., Cleveland, Ohio. Forging-dies	327,309	Sept. 29	2821	736	32	1558
Phippis, Henry P., assignor to King Iron Bridge and Manufacturing Company, Cleveland, Ohio. Machine for trimming the ends of sleeve-nuts	315,542	Apr. 14	796	211	31	148

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Phipps, John. (See McCaffrey, Hugh, assignor.)						
Phreaner, Samuel J., assignor of one-half to C. Bowman, Philadelphia, Pa. Ash-sifter	316,653	Apr. 28	2294	602	31	435
Platt, A. Sanders, Mac-o-Cheek, Ohio. Band-cutting feeder for thrashers	327,587	Oct. 6	112	25	33	21
Platt, Fredrick B., Lansing, Mich. Foot-guard for railway-frogs, &c.	332,106	Dec. 8	1281	333	33	1235
Platt, John J., Rising Sun, Ind. Upright-beater baling-press	315,960	Apr. 14	1368	354	31	253
Pick, Ignac, London, county of Middlesex, England. Garment	310,309	Jan. 6	198	53	30	38
Pick, Paul, <i>et al.</i> (See Majert, Wilhelm, assignor.)						
Pickenpack, H. Henry, Brooklyn, N. Y. Rigging-stretcher	311,605	Feb. 3	195	55	30	385
Pickering, Henry M., Holliston, Mass. Stove-pipe	311,143	Jan. 20	1300	358	30	254
Pickering, John. (See Lovett, John, assignor.)						
Pickering, Joseph M., Philadelphia, Pa. Brush-making machine	317,570	May 12	864	221	31	688
Pickering, Thomas R., Portland, Conn. Safety attachment for steam-engine governors	318,989	May 19	1811	485	31	874
Pickett, Alva L., assignor to F. Caffrey, New Haven, Conn. Cutting-pliers	326,327	Sept. 15	1490	389	32	1305
Pickett, Rufus S., New Haven, Conn. Split nail or tack	323,200	July 28	2446	648	32	469
Pickle, Obadiah A., Palestine, Tex. Mechanical movement	323,070	July 28	2267	599	32	435
Pickler, Samuel M., <i>et al.</i> (See Oliphant, Samuel C., assignor.)						
Pickup, George A., Shelbyville, Tenn. Rotary steam-engine	318,794	May 26	2502	667	31	1006
Pictet, Raoul P., Geneva, and G. L. Brélat, Lausanne, Switzerland. Manufacture of pulp from woody matter	331,323	Dec. 1	90		33	1015
Piefke, Carl W. E., Berlin, Germany. Filtering apparatus	311,257	Jan. 27	1464	{ 400 401 }	{ 30 30 }	{ 290 290 }
Pielsticker, Carl M., London, county of Middlesex, England, and F. C. G. Müller, Brandenburg-on-the-Havel, Prussia, Germany. Apparatus for casting steel and other metal bars, rods, &c.	326,147	Sept. 15	1233	{ 315 316 }	{ 32 32 }	{ 1256 1256 }
Pieper, Henri, Fils, Liege, Belgium. Electric-arc lamp	319,745	June 9	1044	276	31	1249
Pieper, Henri, Liege, Belgium. Holder for incandescent lamps	321,933	July 7	719	187	32	130
Pierce, Charles E., Cambridgeport, Mass. Cracker-can	316,480	Apr. 28	2079	544	31	395
Pierce, Charles F., Chicago, Ill. Refrigerator-car	315,543	Apr. 14	797	211	31	148
Pierce, Charles P., Leominster, Mass. Device for repairing hose	316,566	Apr. 28	2180	574	31	414
Pierce, Eben, New Bedford, Mass. Bomb-lance	320,393	June 16	1949	523	31	1425
Pierce, Edwin F. (See Mead and Pierce.)						
Pierce, Evelina D. (See Pierce, Walter S., assignor.)						
Pierce, G. H., <i>et al.</i> (See Thompson, Edward P., assignor.)						
Pierce, George S. (See Leager, Pierce, and Canterbury.)						
Pierce, George W., assignor of one-half to P. M. Cartwell, Springfield, Ohio. Feeding device for roller-mills	320,282	June 16	1796	478	31	1389
Pierce, Henry M., Nashville, Tenn. Coke-oven	318,496	May 26	2083	565	31	935
Pierce, Henry M., Nashville, Tenn. Manufacturing coke	318,497	May 26	2094		31	935
Pierce, Henry M., Nashville, Tenn. Apparatus for utilizing wood-gases	326,451	Sept. 15	1637	429	32	1332
Pierce, Henry M., Nashville, Tenn. Utilizing wood-gases for metallurgical purposes	326,452	Sept. 15	1638		32	1332
Pierce, Henry M., Nashville, Tenn. Manufacturing coke	330,731	Nov. 17	1740	469	33	854
Pierce, Henry M., Nashville, Tenn. Furnace for the manufacture of coke	330,732	Nov. 17	1742	469	33	854
Pierce, John, Herne Hill, county of Surrey, assignor to E. J. V. Earle, 119 Cheapside, London, England. Folding chair	327,105	Sept. 29	2560	667	32	1511
Pierce, John B., <i>et al.</i> (See Bryant, Orrin, assignor.)						
Pierce, John B., Buffalo, N. Y. Steam-radiator	316,056	Apr. 21	1491	390	31	283
Pierce, John B., and J. Bond, Buffalo, N. Y. Steam-radiator	316,055	Apr. 21	1490	389	31	283
Pierce, Jonathan E., Daming's Bridge, Tex. Stock-car	311,781	Feb. 3	415	113	30	426
Pierce, Mortimer K., Perryvale, assignor of one-half to P. Hawkins, Marysville, Cal. Machine for forming and threading sheet-metal pipes	326,516	Sept. 15	1719	448	32	1348
Pierce, Origen A., Detroit, Mich. Lubricating car-axles	325,966	Sept. 8	891	252	32	1206
Pierce, Otis B., Taunton, Mass. Music-rack and walking-cane combined	330,922	Nov. 24	1988	537	33	907
Pierce, Samuel B., North La Crosse, Wis. Saw-mill roller	314,470	Mar. 24	1941	517	30	1164
Pierce, Walter S., assignor to E. D. Pierce, New York, N. Y. Phosphate fertilizer	317,010	May 5	108		31	542
Pierpont, Charles L., Red Wing, Minn. Lamp-bracket	313,835	Mar. 10	1063	281	30	986
Pierston, George S., Kalamazoo, Mich. Apparatus for the intermittent discharge of sewage, &c.	316,567	Apr. 28	2181	{ 574 575 }	{ 31 31 }	{ 414 414 }
Pierston, Henry B. (See Traver and Pierston)						
Piette, Ludwig, Pilsen, Austria-Hungary. Method of and apparatus for coloring paper	318,652	May 26	2307	617	31	972
Piffard, Henry G., New York, N. Y. File	331,324	Dec. 1	91	92	33	1015
Piffard, Henry G., New York, assignor of one-half to C. A. Tucker, Brooklyn, N. Y. Recoil attachment for pistols	319,020	June 2	108	39	31	1068
Pifre, Abel, Paris, France. Steam-boiler	312,379	Feb. 17	1258	347	30	598
Pigeon, Charles J. A., Paris, France. Lamp	310,481	Apr. 28	2080	544	31	395
Pigott, Michael A., St. Louis, Mo. Fifth-wheel	319,846	June 9	1189	314	31	1274
Pihlfeldt, Olaf, Cooksey Road, Small Heath, near Birmingham, county of Warwick, England. Ball-bearing for velocipedes	327,408	Sept. 29	2957	772	32	1581
Pihlström, John S., Chicago, Ill. Window	321,245	June 30	3099	{ 323 324 }	{ 31 31 }	{ 1444 1444 }
Pike, Charles F. (See Collings and Pike.)						
Pike, Charles F. (See Griggs, George H., assignor.)						
Pike, Edward, Salt Lake City, Utah Ter. Amalgamator	327,193	Sept. 29	2620	696	32	1533
Pike, Solomon B. (See Brooks and Pike.)						
Pileher, John V., Louisville, Ky. Cuff-fastener	325,207	Oct. 27	2295	594	33	438
Pilet, Gaston, and C. Carry, Besancon, France. Plating with palladium	330,149	Nov. 10	964		33	700
Pilgrim, Conrad, East New York, N. Y. Torpedo	323,071	July 28	2268	600	32	435
Pillaunt, Adolphe, Cleveland, Ohio. Broiler	326,328	Sept. 15	1491	388	32	1305
Pillings, George T., Baltimore, Md. Valve-gear	331,003	Nov. 24	2083	566	33	927
Pillow, Edward D. (See Duncan and Pillow.)						
Pilz, Theodor. (See Gabler and Pilz.)						
Pinard, Theophile, Butterville, Oreg. Brake-lever	332,434	Dec. 15	1736	454	33	1321
Pine, Charles S., Providence, R. I. Bracelet	333,083	Dec. 23	2640	694	33	1492
Pine, George W., Troy, N. Y. Bosom-shirt	313,520	Mar. 10	665	173	30	909
Pine, George W., Troy, N. Y. Bosom-plaiting machine	322,476	July 21	1440	376	32	278
Pine, James K. P. (See Hagan and Norris, assignors.)						
Pine, James K. P. (See Norris, George E., assignor.)						
Pine, James K. P. (See Norris and Hagan, assignors.)						
Pine, Leighton. (See Babcock and Pine.)						
Pine, William K., Newark, N. J., assignor to W. T. Mercereau & Co., New York, N. Y. Curtain-pole end	323,072	July 28	2269	600	32	435
Pinel, Léon C., Paris, France. Apparatus for automatically extinguishing candles	312,391	Feb. 17	1149	314	30	577
Pinke, Peter D., New York, N. Y. Vapor-bath	317,609	May 12	995	258	31	712
Pinkham, Delmar D., Longview, Tex. Steam-engine	327,313	June 30	3182	{ 848 849 }	{ 31 31 }	{ 1661 1661 }
Pinkham, Delmar D., Longview, Tex. Valve-gear	324,784	Aug. 18	1881	517	32	889

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Pinover & Co., A. (See Pinover, Samuel, assignor.)						
Pinover, Samuel, assignor to A. Pinover & Co., New York, N. Y. Lace-pin and other similar fastenings.	314,471	Mar. 24	1942	517	30	1164
Pintsch, Julius, et al. (See Quaglio, Julius, assignor.)						
Piper, Charles E., Moline, Ill. Commutator for dynamo-electric machines.	328,850	Oct. 20	1769	461 462	33	338
Piper, Edwin S., assignor, by meane assignments, to W. E. Strong, Bristol, Conn. Removable internal bottle-stopper.	318,290	May 19	1813	485	31	875
Piper, Francis M., and J. H. Reed, Lynn, Mass. Lacing-stud.	320,148	Sept. 15	1235	316	32	1257
Piper, Gustav, New Holstein, Wis. Washing-machine.	328,428	Oct. 13	1309	312	33	229
Piper, James R. (See Patton, William P., assignor.)						
Piper, James S., Gardner, Mass., assignor to Haywood Bros. & Co., New York, N. Y. Platform-rocker.	329,854	Nov. 3	583	149	33	614
Piper, Myron H., assignor, by meane assignments, to himself and C. S. Bird, Walpole, Mass. Fire-extinguishing grenade.	324,414	Aug. 18	1382	376	32	795
Pipes, Uriah C. (See Acklen and Pipes.)						
Pipher, John, Hoboken, N. J. Coal-tub.	324,484	Aug. 18	1468	402	32	810
Piquerez, Camille, Saint Ursanne, Switzerland. Watch-case-graving lathe.	310,910	Jan. 20	959	261 262	30	192
Plako, Emanuel, assignor to Seidenberg & Co., New York, N. Y. Box for cigars and other articles.	316,654	Apr. 28	2285	602	31	435
Pistorius, Herman, Saginaw, Mich. Invalid-bed.	321,754	July 7	466	123 124	32	87
Pitard, John H., assignor to himself and M. I. Goldsmith, Mobile, Ala. Brake-shoe.	318,203	May 19	1704	456	31	854
Pitcher, Horace A., Philadelphia, Pa., assignor, by meane assignments, to R. F. Williams, New York, N. Y. Lightning-protector.	317,848	May 12	1929	325	31	757
Pitcher, John M., Sugar Creek, Ind. Spark-arrester.	330,420	Nov. 17	1344	358	33	777
Pitchford, John B., assignor of one-half to W. T. Garratt, San Francisco, Cal. Cut-off valve gear.	310,310	Jan. 6	198	54	30	38
Pitman, Alida. (See Marsh, Carrie F., assignor.)						
Pitner, William C., La Porte, Ind. Two-wheeled vehicle.	317,413	May 5	656	167	31	642
Pitney, Albert L., Washington, D. C. Pillow.	324,785	Aug. 18	1892	517	32	889
Pitrat, Julius E., Gallipolis, Ohio. Weighing and price scale.	314,717	Mar. 31	2264	601	30	1248
Pitt, William A., Glenbrook, Conn. Combined waste and overflow valve.	316,057	Apr. 21	1492	390	31	283
Pitt, William R. (See Dissoway, Crowel M., assignor.)						
Pitt, William R., Brooklyn, N. Y., assignor to W. W. Bostwick, Cincinnati, Ohio. Gate.	312,380	Feb. 17	1260	348	30	596
Pittman, Walter H., Jersey City, N. J. Automatic fan.	316,655	Apr. 26	2295	603	31	435
Pitta, Aurelius V. and M. H. Marselles, Ill. Corn-sheller.	322,964	July 28	2112	562	32	407
Pitta, Marcellus H. (See Pitts, Aurelius V. and M. H.)						
Pitta, Marcellus H. and I. R. Whiteman, Marselles, Ill. Wire-barbing machine.	313,103	Mar. 3	84	22	30	792
Pittsburg Mineral Wool Company. (See Kennedy and Higga, assignors.)						
Pittsburg Steel Casting Company. (See Wittman, Noel B., assignor.)						
Pittsburg Steel Fencing Company. (See Stubbe, John, assignor.)						
Pittsburg Steel Nail Company. (See Truman, William, assignor.)						
Pittsburgh Hob Nail Manufacturing Company. (See Dickson, John S., assignor.)						
Pitz, Henry W., Philadelphia, Pa. Cigar-case.	330,733	Nov. 17	1745	469	33	854
Place, Alfred D. (See Hartwell, Oscar F., Jr., assignor.)						
Place Gas Engine Manufacturing Company. (See Place, James F., assignor.)						
Place, Harry D., Newark, Ohio. Lamp-burner.	322,850	July 21	1941	513	32	369
Place, James F., assignor to Place Gas Engine Manufacturing Company, New York, N. Y. Gas-engine.	322,477	July 21	1442	378 379 380	32	279
Place, James F., assignor to Place Gas Engine Manufacturing Company, New York, N. Y. Gas-engine.	328,970	Oct. 27	1945	507 508 509	33	376
Place, John J. W., Rantoul, Ill. Dish washer and drier.	313,764	Mar. 10	990	275 256	30	970
Place, Joseph. (See Card and Place.)						
Place, Oscar, assignor of one-fourth to L. W. Hyde, Brooklyn, N. Y. Packing-box.	324,485	Aug. 18	1469	402	32	810
Plamondon, Ambrose, Chicago, Ill. Gear-wheel.	314,472	Mar. 24	1944	517	30	1164
Plankinton, William. (See Johnson, Warren S., assignor.)						
Plano Manufacturing Company. (See Hunt, George G., assignor.)						
Plano Manufacturing Company. (See Hunt and Steward, assignors.)						
Planten, John R. (See Holst, Constantyn P., assignor.)						
Platman, Robert, Bellona, N. Y. Seed-drill and fertilizer-distributor.	319,021	June 2	108	29, 30	31	1068
Platt, Albert L., assignor to W. B. and J. R. McAllister and J. M. Hawkins, Bowling Green, Mo. Ice-cream freezer.	323,732	Aug. 4	457	129	32	606
Platt, George, Watacka, Ill. Well-boring apparatus.	314,473	Mar. 24	1945	518	30	1164
Platt, Irving G., assignor to Patent Button Company, Waterbury, Conn. Device for attaching buttons to fabrics.	329,336	Oct. 27	2484	641	33	474
Platt, Irving G., assignor to Patent Button Company, Waterbury, Conn. Button and button-fastener.	329,337	Oct. 27	2485	641	33	474
Platt, Isaac S., Sandusky, Ohio. Fruit-crate.	323,596	Aug. 4	169	55	32	557
Platt, Isaac S., Sandusky, Ohio. Fruit-basket.	323,527	Aug. 4	169	55	32	557
Platt, James. (See Tweddell, Platt, and Fielding.)						
Platt, James F., Sterling, Ill. Harrow.	325,694	Sept. 8	633	161	32	1139
Platt, James F., Sterling, Ill. Hay-tedder.	323,153	Dec. 29	2756	722	33	1516
Platt, Percival, and J. M. Aitchison, Adolphustown, Ontario, Canada. Malt-drier.	316,170	Apr. 21	1652	433	31	313
Platt, William S., Waterbury, Conn. Amalgamating zinc plates or bars for voltaic batteries.	313,615	Mar. 10	789	207	30	933
Platt, William S., Waterbury, Conn. Clamp for electrical purposes.	313,616	Mar. 10	790	207	30	933
Platt, William S., Waterbury, Conn. Making electrical conductors.	320,684	June 23	2379	629	31	105
Platt, William S., Waterbury, Conn. Mold for casting metal.	331,437	Dec. 1	261	71	33	1045
Platts, Thomas M., Newark, N. J. Punching-machine.	314,474	Mar. 24	1946	518 519	30	1164
Plessner, Johann M., Stuttgart, Germany. Antiphone.	322,003	July 14	815	213	32	157
Plenkarp, Ezra, and T. Shilling, Columbus, Ohio; said Shilling assignor to said Plenkarp.						
Table-slide.	313,020	Feb. 24	2124	578	30	764
Plenkarp & Co., James. (See Plenkarp, James, assignor.)						
Plenkarp, James, assignor to J. Plenkarp & Co., Columbus, Ohio. Table.	331,212	Nov. 24	2381	644	33	979
Plimpton, Melvin G. (See Mitchell and Plimpton.)						
Ploughe, Thomas E. (See Goff and Ploughe.)						
Plowman, Joseph G., White Pigeon, Mich. Sectional chalk-rack.	326,453	Sept. 15	1640	429	32	1332
Plum, William R., et al., trustees. (See Pratt, Harry P., assignor.)						
Plumb, Burdick & Barnard. (See Bruderer and Burdick, assignors.)						
Plumb, Burdick & Barnard. (See Johnson, Henry J., assignor.)						
Plumb, David S., Newark, N. J. Plated hollow earthenware.	332,435	Dec. 15	1737	455	33	1321

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Plumb, Fawcett. (See Bown, Albert, assignor.)						
Plumb, Fawcett, Streator, Ill. Ditching-machine	316,396	Apr. 21	1948	513	31	365
Plumb, Fawcett, Streator, Ill. Kiln for burning bricks, tiles, &c.	316,397	Apr. 21	1949	514	31	365
Plumb, Fawcett, assignor of one-half to J. H. Shay and J. Baker, Streator, Ill. Device for fastening roof-tiles	317,414	May 5	658	167	31	642
Plumb, Henry B., assignor to Eagle Lock Company, Terryville, Conn. Lock-case	331,083	Nov. 24	2192	593	33	946
Plumb, Hiram, assignor to W. A. Drown & Co., Philadelphia, Pa. Machine for forming ferrule-seats on umbrella-sticks	313,836	Mar. 10	1084	281 282	30	986
Plume & Atwood Manufacturing Company. (See Atwood, Lewis J., assignor.)						
Plume & Atwood Manufacturing Company. (See Combs, Abel, assignor.)						
Plume, David S. (See Young, Alden M., assignor.)						
Plume, Frank C., Thomaston, Conn. Making dandy-rolls for paper-making	319,615	June 9	883	234	31	1920
Plume, Frank C., Thomaston, Conn. Dandy-roll for paper-making machines	319,616	June 9	884	231	31	1920
Plummer, Benjamin M., Philadelphia, Pa. Belt-stretching machine	331,325	Dec. 1	91	22	33	1015
Plummer, Frank H., Henniker, N. H. Reclining-chair	318,795	May 26	2503	667 668 669	31	1006
Plummer, Frank H., Henniker, N. H. Reclining-chair	318,796	May 26	2506	668 669	31	1006
Plummer, Frank H., Henniker, N. H. Clip for the attachment of springs	318,797	May 26	2508	669	31	1007
Plummer, Frank J., Boston, Mass. Planing-machine	327,588	Oct. 6	114	26	33	21
Plummer, Oliver S., and J. M. Wood, Richmond, Ind. Vehicle-spring	328,609	Oct. 20	1448	377	33	278
Plummer, Samuel A. (See Williston, Benjamin F., assignor.)						
Plummer, William C. (See Hutchins, George W., assignor.)						
Plumpton, George, Warrington, county of Lancaster, England. Combination-tool	329,908	Oct. 27	2206	595	33	439
Plympton, Warren H., Providence, R. I. Weather-strip	327,106	Sept. 29	2561	668	32	1511
Pneumatic Company. (See Moore, Matthew R., assignor.)						
Pneumatic Company. (See Moore, Matthew R., assignor.) (Reissue.)						
Pneumatic Engine Company. (See Ayres, Jared A., assignor.)						
Poage, James H., assignor of one-half to G. W. Durrant and W. R. P. Jackson, Monroe, Mo. Hay-gatherer	322,639	July 21	1655	438	32	317
Poak, J. Lane, Philadelphia, Pa. Stereotype or matrix making machine	331,438	Dec. 1	262	71	33	1045
Poe, George H., Roundhead, Ohio. Windmill	318,498	May 26	2095	565 566	31	935
Poenagen, Reinhard, Dusseldorf, Prussia, Germany. Apparatus for making sheet-lead	323,201	July 28	2447	649	32	469
Poff, James W., Harrisburg, Ark. Sawing-machine	311,675	Feb. 3	222	78	30	402
Pohl. (See Donadoni, Cesare, assignor.)						
Pohl, Alois, and A. Claes, St. Louis, Mo. Table-leaf support	331,084	Nov. 24	2193	594	33	946
Pohl, Emille, Baltimore, Md. Stiffener for bushes	325,861	Sept. 8	866	218	32	1182
Pohlmann, Wilhelm, Cleveland, Ohio. Sash-fastening	316,822	Apr. 28	2546	666	31	481
Poillon, Richard. (See Secor, Samuel and J. A., assignors.)						
Poindexter, Robert E., Indianapolis, Ind. Saw-handle	327,015	Sept. 29	2433	636	32	1490
Poist, John A., McSherrystown, Pa. Machine for treating leaf-tobacco	330,734	Nov. 17	1745	469	33	855
Polak, Henri, and H. Lowe, Hyde, county of Chester, England. Apparatus for curling and setting silk, felt, and other hat brims	322,004	July 14	816	214	32	157
Poland, Edward F., and J. G. Crawford, Boston, Mass. Ticket cutter, register, and alarm	331,213	Nov. 24	2382	644 645	33	979
Poland, John C., Boston, Mass. Automatic reversing mechanism	327,409	Sept. 29	2958	772 773	32	1581
Poley, Warren H. (See Stout, George M., assignor.)						
Polhemus, Garret A., Nyack, N. Y. Roller cable grip	328,517	Oct. 20	1313	341	33	255
Polhemus, James H., Brooklyn, N. Y. Cable-grin	312,507	Feb. 17	1449	397	30	633
Polifka, William, et al. (See Kanouse, John G., assignor.)						
Poling, Totten, Menlo, Iowa. Device for welding plowshares	315,162	Apr. 7	244	50	31	45
Politz, Frederick, Bridgeton, N. J. Burglar-alarm	312,508	Feb. 17	1452	397	30	634
Polk, Andrew J., Millersburg, Pa. Screw-cutting die	321,755	July 7	476	124	32	87
Polk, William R. (See Adams and Polk.)						
Polkowski, John, New York, N. Y. Window-guard	310,721	Jan. 13	718	196	30	143
Pollard, Isaac G., Sunville, Pa. Barrel-stand	318,392	May 19	1961	528	31	901
Pollard, Isaac G., Sunville, Pa. Car-ticket or stamp box	320,814	June 23	2531	671	31	1535
Pollard, John G. (See Comstock, Philo E., assignor.)						
Polle, Friederich W., Greenville, Miss. Beer-faucet	322,318	July 14	1217	319	32	231
Polley, William H., Melrose, Wis. Fire-extinguishing compound	328,250	Oct. 13	961		33	183
Politzer, Moritz, Beaufort, S. C. Knife-carrying crank-leg for cotton-gins	313,685	Mar. 10	872	228	30	950
Pollock, James R., Mansfield, Ohio. Buckle	317,415	May 5	659	167	31	643
Pollock, James R., assignor of one-half to J. P. Rummel, Mansfield, Ohio. Button	315,440	Apr. 7	632	163	31	113
Pollock, James R., assignor of one-half to J. P. Rummel, Mansfield, Ohio. Suspenders	330,348	Nov. 10	1239	330	33	749
Pollock, James R., assignor of one-half to J. P. Rummel, Mansfield, Ohio. Suspender-buckle	330,349	Nov. 10	1239	330	33	750
Pollock, Thomas D., Danbury, Nebr. Wind-engine	316,656	Apr. 28	2296	603	31	435
Pollock, William B., Philadelphia, Pa. Garment measuring and fitting device	320,496	June 23	2126	560 561	31	1458
Polmateer, William A., assignor to W. S. Northrup, Johnstown, N. Y. Sewing-machine	329,424	Nov. 3	80	92	33	520
Polsey, Charles H., and A. A. Smith, Newton, Mass. Milling-cutter	327,107	Sept. 29	2562	668	32	1511
Polster, Ferdinand, assignor to W. Knabe & Co., Baltimore, Md. Upright-piano action	314,195	Mar. 17	1568	414	30	1084
Polster, Ferdinand, assignor to W. Knabe & Co., Baltimore, Md. Repeating-action for square and grand pianos	326,586	Sept. 22	1809	475	32	1372
Pomeroy, Charles, New York, N. Y. Shoe-last	321,256	Nov. 24	2449	662	33	990
Pomeroy, Daniel, Brooklyn, N. Y. Truss	324,566	Aug. 18	1601	441	32	837
Pomeroy, John H. (See Cook and Pomeroy.)						
Pommer, Frank L. (See Heiman, Salomon, assignor.)						
Pond, A. A., et al. (See Clausen, Adler C., assignor.)						
Pond, Charles L., Buffalo, N. Y. Metallic seal	329,909	Oct. 27	2298	585	33	439
Pond, Charles L., Buffalo, N. Y. Metallic seal	331,439	Dec. 1	264	71	33	1045
Pond, Charles L., Buffalo, N. Y. Metallic seal	332,556	Dec. 15	1912	500	33	1351
Pond, Charles L., Buffalo, N. Y. Metallic seal	321,246	June 30	3100	824	31	1645
Pond, Charles P., Camden, N. Y. Hasp-lock	327,697	Oct. 6	502	131	33	90
Pond, Chester H., Brooklyn, N. Y. Secondary electric clock movement	327,698	Oct. 6	504	131	33	90
Pond, Chester H., Brooklyn, N. Y. Electrical attachment for winding clocks in series	331,650	Dec. 1	612	151	33	1105
Pond, Goldsberry H., New York, N. Y. Construction of the hulls of vessels, &c.	321,450	July 7	57	16, 17	32	13
Pond, Goldsberry H., Glen's Falls, N. Y. Machine for reducing wood and other fibrous material to a pulp	321,451	July 7	58	17	32	13
Pond, Goldsberry H., Glen's Falls, N. Y. Bleaching wood pulp and other fibrous materials	321,452	July 7	59		32	14
Pond, Joseph F., Cleveland, Ohio. Inhaler	324,161	Aug. 11	1024	280	32	720
Pool, Frank V., Newark, N. J., assignor to Celluloid Manufacturing Company, New York, N. Y. Manufacture of soluble nitro-cellulose. (Reissue.)	10,650	Oct. 6	617		33	112

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Poole, Lawrence V. (See Williams and Poole.)						
Poole, Lawrence V., and O. E. Williams, Windsor, Vt. Tool for making beadings or moldings.	313,617	Mar. 10	790	207	30	933
Poole, Lorenzo, and F. P. Snow, Orange, Mass.; said Snow assignor to said Poole. Wood-peeling machine	314,876	Mar. 31	2499	663	30	1293
Poolman, James E. W., New York, N. Y. Desk	321,383	June 30	3272	874	31	1679
Poor, Charles B. (See Mack, Albert G., assignor.)						
Poor, George H., assignor to American Brake Company, St. Louis, Mo. Locomotive-brake.	315,163	Apr. 7	245	60	31	45
Poor, George H., assignor to American Brake Company, St. Louis, Mo. Locomotive-brake.	317,571	May 12	866	222	31	688
Poor, George H., assignor to American Brake Company, St. Louis, Mo. Governor for automatic brakes	317,572	May 12	868	222 223	31	688
Poor, George H., assignor to American Brake Company, St. Louis, Mo. Governor for automatic brakes	318,021	May 19	1470	393	31	810
Poor, George H., assignor to American Brake Company, St. Louis, Mo. Relieving cylinders of water of condensation.	318,022	May 19	1471	394	31	810
Poor, George H., assignor to American Brake Company, St. Louis, Mo. Cylinder and piston	318,490	May 26	2098	566	31	936
Poor, James C., North Andover, Mass. Bull-tamer	330,150	Nov. 10	985	256	33	700
Pope, Frank L., Elizabeth, N. J. Electrically-actuated railway system	320,283	June 16	1798	478	31	1369
Pope, Frank L., Elizabeth, N. J. Multiple local circuit for telegraphs	329,410	Oct. 27	2597	670	33	494
Pope, Frank L., Elizabeth, N. J. Multiple local circuit for electric telegraphy	329,411	Oct. 27	2598	670	33	494
Pope, Frank L., Elizabeth, N. J. Multiple local circuit for electric telegraphs	329,412	Oct. 27	2600	670 671	33	494
Pope Manufacturing Company. (See Benham, William P., assignor.)						
Pope Manufacturing Company. (See Drake, Franklin J., assignor.)						
Pope Manufacturing Company. (See Knous, John, assignor.)						
Pope Manufacturing Company. (See Knous and Wallace, assignors.)						
Pope Manufacturing Company. (See Latta, Emmitt G., assignor.)						
Pope Manufacturing Company. (See Latta, Emmitt G. and A. C., assignors.)						
Pope Manufacturing Company. (See Pratt, Charles E., assignor.)						
Pope Manufacturing Company. (See Pratt and Wallace, assignors.)						
Pope Manufacturing Company. (See Wallace, Albert E., assignor.)						
Pope Manufacturing Company. (See White, Albert M., assignor.)						
Pope Manufacturing Company. (See Work, Charles L., assignor.)						
Pope, William E. (See Moebius, Bernard, assignor.)						
Popham, Richard M., et al. (See Phillippi, Abraham H., assignor.)						
Popp, William, Pittsburg, Pa. Device for slicing vegetables	323,960	Aug. 11	748	208	32	671
Porcher, Samuel. (See Cloud and Porcher.)						
Portebois, Louis F., assignor to V. E. Vorsepuy, Paris, France. Winding mechanism for clocks	321,526	July 7	167	45	32	33
Porter, Alonzo W., New York, N. Y., assignor to J. J. Cooper, Philadelphia, Pa. Hand fire-extinguisher	323,528	Aug. 4	190	55	32	557
Porter, Charles B., San Francisco, Cal. Window-cleaning seat	313,418	Mar. 10	791	208	30	933
Porter, Charles M., Philadelphia, Pa. Turn-table for cable railways	316,482	Apr. 28	2082	544	31	395
Porter, Daniel R., Revere, Mass. Wrench	325,010	Aug. 25	2197	602	32	933
Porter, D'Arcy, assignor to White Sewing Machine Company, Cleveland, Ohio. Sewing-machine table	323,529	Aug. 4	192	56	32	558
Porter, David W., Pittsburg, Pa. Key-seating machine	325,695	Sept. 8	635	161	32	1139
Porter, Edwards W., Detroit, Mich. Brush	329,413	Oct. 27	2602	671	33	495
Porter, George A. (See Sutherland, John B., assignor.)						
Porter, George A., Syracuse, N. Y. Steam-boiler	317,190	May 5	362	90	31	589
Porter, George A., Syracuse, N. Y. Crank-lubricator	317,191	May 5	363	90	31	589
Porter, George A., Syracuse, N. Y. Steam-boiler	325,967	Sept. 8	992	252	32	1206
Porter, George A., Syracuse, N. Y. Steam-boiler	323,928	Dec. 22	2226	602	33	1427
Porter, George W. D. and L. L., Fayetteville, Tenn. Plow	329,420	Oct. 13	1210	313	33	929
Porter, Henry B., Chicago, Ill. Electric bell	320,665	June 23	2380	629	31	1705
Porter, John, and H. B. Kepperling, Cleveland, Ohio. Boiler washing-machine	330,735	Nov. 17	1746	470	33	855
Porter, John C., St. Louis, Mo. Ore-separator	317,192	May 5	364	90	31	589
Porter, John E., assignor of one-half to C. Wilson, Weir City, Kans. Sulky-plow	328,518	Oct. 20	1314	349	33	935
Porter, John F., Red Wing, Minn. Evaporating-pan	328,149	Sept. 15	1236	316	32	1257
Porter, John F., Mount Washington, Ky. Grain measure, register, and sacker	327,718	Oct. 6	289	74	33	51
Porter, John M. (See Brown and Porter.)						
Porter, Lawrence L. (See Porter, George W. D. and L. L.)						
Porter Manufacturing Company. (See Cressey, Isaiah, assignor.)						
Porter, Miner. (See Doubler, John W. H., assignor.)						
Porter, Moses, Lovington, Ill. Corn-drill	314,604	Mar. 31	2117	564	30	1222
Porter, Robert, Ottumwa, Iowa. Manufacture of leather articles	319,617	June 9	885	234	31	1220
Porter, Rufus, Lewistown, Ill. Apparatus for the utilization or disposition of surplus or waste heat in pottery kilns	324,892	Aug. 25	2022	554	32	921
Porter, Stephen, Boston, Mass. Door-plate	311,782	Feb. 3	417	113	30	436
Porter, Stephen, assignor of one-half to I. E. Fairbanks, Boston, Mass. Heat-indicator for ovens	315,164	Apr. 7	246	60	31	45
Porter, Thomas, Abilene, Tex. Earth-anger	324,162	Aug. 11	1025	280	32	720
Porter, Thomas A., Cameron, Tex. Earth-anger	318,633	May 26	2308	617	31	972
Porter, Thomas A., Cameron, Tex. Water-elevator	329,485	Nov. 3	92	22	33	530
Porter, William B., Troy, Pa. Trap for caves-troughs	317,011	May 5	109	28	31	542
Portis, James W., Calhouns, La. Mechanical movement	311,362	Jan. 27	1622	444	30	318
Possons, William J., Cleveland, Ohio. Machine for dressing carbons	320,497	June 23	2130	561 562 563	31	1452
Possons, William J., Cleveland, Ohio. Drier	320,498	June 23	2134	563	31	1459
Possons, William J., Cleveland, Ohio. Carbon-baking box	331,440	Dec. 1	264	71	33	1045
Post, Andrew D., Keyport, N. J. Cradle	315,165	Apr. 7	247	60	31	45
Post, Charles H., Guilford, Conn. Portable shelving	325,606	Sept. 8	636	162	32	1139
Post, Charles H., Philadelphia, Pa. Thill-coupling	328,430	Oct. 13	1211	313	33	929
Post, John W., New York, N. Y. Sewing machine	310,612	Jan. 13	570	160	30	117
Post, John W., New York, N. Y. Sewing-machine	312,509	Feb. 17	1453	398	30	634
Post, John W., New York, N. Y. Sewing-machine	315,067	Apr. 7	113	96	31	22
Post, John W., New York, N. Y. Tension device for sewing-machines	317,193	May 5	365	91	31	590
Post, John W., New York, N. Y. Sewing-machine	320,394	June 16	1990	523 524	31	1425
Post, Judson S., St. Louis, Mo. Marine speed-propeller	312,381	Feb. 17	1961	348	30	599
Post, William W., assignor of two-thirds to L. A. Bradley, Cedar Rapids, Iowa. Baling-press	332,557	Dec. 15	1913	500 501	33	1351
Postawka, Louis, Cambridge, Mass. Oiling device for adjustable chairs and stools	320,395	June 16	1994	525	31	1426

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Postawka, Louis, Cambridge, Mass. Support for adjustable and revolving seats	323,005	July 14	817	214	32	157
Postlethwaite, Charles W., assignor of one-half to D. A. Ely, Monroe, Mo. Washing-machine	323,073	July 28	2269	600	32	435
Pot, Adriaan. (See Smit and Pot.)						
Pott, Burd P., Thompson Falls, Mont. Ter. Sled-brake	319,022	June 2	110	30	31	1068
Pott, Henry A., Cape Girardeau, Mo. Trace-holder	317,765	Mar. 10	999	256	30	970
Pott, James, Jr., New York, and E. S. Gorham, Brooklyn, N. Y. Book holder and carrier	313,021	Feb. 24	2125	579	30	764
Potter, Abraham L., Boston, Mass. Refrigerator	323,733	Aug. 4	459	130	32	609
Potter, Ainsworth & Co. (See Potter and McConnon, assignors.)						
Potter, Arthur W., and T. J. McConnon, Wilkes-Barre, Pa., assignors to Potter, Ainsworth & Co., New York, N. Y. Lesson-tablet for arithmetical work	331,907	Dec. 8	983	254	33	1182
Potter, Charles, Jr., Plainfield, N. J. Lithographic-printing machine	317,194	May 5	345	91	31	590
Potter, Charles A., Providence, R. I. Locking-gear for windlasses	332,287	Dec. 15	1531	401	33	1286
Potter, George E., Palmer, Mass. Shutter-worker	319,999	June 16	1413	371	31	1321
Potter, James, assignor of one-half to L. H. Flersheim, Chicago, Ill. Barbed fence	331,908	Dec. 8	984	254	33	1182
Potter, James C., assignor to Atherton Machine Company, Lowell, Mass. Machine for opening and cleaning cotton and other fibers	321,851	July 7	617	158	32	112
Potter, James C., assignor to Atherton Machine Company, Lowell, Mass. Machine for opening and cleaning cotton and other fibers				159		
Potter, James C., assignor to A. T. Atherton, Lowell, Mass. Stripping mechanism for carding-machines	321,852	July 7	610	159	32	113
Potter, John C., Providence, R. I. Picker-staff check for looms	325,566	Sept. 1	467	117	32	1105
Potter, Mark, Syracuse, N. Y. Car-starter	332,332	Dec. 29	2001	786	33	1561
Potter, Merritt F., Hinkley, Ill. Lamp-reflector	320,088	June 16	1532	406	31	1344
Potter, Nicholas, Troy, Pa. Corn-sheller	323,530	Aug. 4	192	56	32	558
Potter, Prince A., Providence, R. I. Barrel-swing	313,619	Mar. 10	794	208	30	934
Potter, Robert M., Jersey City, N. J., and R. Breklen, assignors of one-third to I. Cook, Brooklyn, N. Y. Apparatus for generating illuminating-gas	310,339	Jan. 6	484	135	30	93
Potter, Stephen E., Fall River, Mass. Combination-cabinet	325,766	Sept. 8	742	186	32	1159
Potter, Thomas, Jersey City, N. J. Mechanism for automatically operating throttle and brake valves of locomotives	328,061	Oct. 13	725	189	33	137
Potter, Thomas O. (See Martin, Webster W., assignor.)	316,171	Apr. 21	1633	433	31	313
Potter, Thomas O., Boston, Mass. Suspenders	311,916	Feb. 10	609	167	30	469
Potter, Thomas O., Boston, Mass. Suspenders	311,917	Feb. 10	610	168	30	470
Potter, Thomas O., Boston, Mass. Suspenders	311,918	Feb. 10	611	169	30	470
Potter, Thomas O., Boston, Mass. Buckle	320,089	June 16	1533	406	31	1344
Potter, Thomas O., Boston, Mass. Suspenders	322,478	July 21	1449	380	32	279
Potter, Thomas O., Boston, Mass. Suspender attachment	322,479	July 21	1450	380	32	280
Potter, Thomas O., Boston, Mass. Suspenders	322,480	July 21	1451	381	32	280
Potter, Thomas O., Boston, Mass. Making buckle-blanks	332,622	Dec. 15	2001	525	33	1368
Potter, Wilson L., et al. (See White, Louis B., assignor.)						
Pottin, Henry, Paris, France. Recording and registering apparatus for tills	312,014	Feb. 10	752	205	30	495
Pottle, George F., Boston, Mass., assignor of two-thirds to W. S. Hill, Hyde Park, and R. O. Storrs, Dedham, Mass. Wrench	317,670	May 12	906	258	31	712
Pottle, George F., Medford, assignor of one-half to W. S. Hill, Hyde Park, and R. O. Storrs, Dedham, Mass. Valve	390,962	June 30	2735	728	31	1578
Potts, Albert. (See Potts, Clayton and A.)						
Potts, Clayton and A., Indianapolis, Ind. Clay-disintegrator	322,393	July 14	1321	344	32	251
Potta, George, Indianapolis, Ind. Tile-table	310,172	Apr. 21	1654	433	31	314
Potta, James F., et al. (See Naramore, Henry L., assignor.)						
Potta, John R. (See Delamater, George W., assignor.)						
Potta, Joseph C., assignor of one-half to J. H. Coates, Berwyn, Pa. Device for converting motion	326,777	Sept. 22	2107	547	32	1423
Potta, Joseph C., assignor of one-half to J. H. Coates, Berwyn, Pa. Device for converting motion	333,333	Dec. 29	3003	786	33	1562
Pounds, Joseph E. (See Walker, Charles O. R., assignor.)						
Poundstone, Henderson W., et al. (See Tolliver, George E., assignor.)						
Pouschkareff, Nicolas L., Moscow, Russia. Vapor-burner	323,594	Aug. 4	279	81	32	573
Powell, Robert D., Jerseyville, Ill. Dropper for corn-planters	323,334	Dec. 29	3004	786	33	1562
Powell, Benjamin B., Petoskey, Mich. Speed-changing mechanism	324,955	Aug. 25	2119	579	32	940
Powell, David, Flemington, W. Va. Car-coupling	333,154	Dec. 29	2757	722	33	1516
Powell, Edward. (See Powell, John H., assignor.)						
Powell, Edward B., Portland, Mich. Elevator	315,166	Apr. 7	248	60	31	45
Powell, Edwin A., Peoria, Ill. Flour-bin	322,965	July 28	2113	562	32	408
Powell, Hattie L., et al. (See Ring, Jacob, assignor.)						
Powell, James, Cincinnati, Ohio. Lubricator	326,517	Sept. 15	1719	448	32	1348
Powell, James, Cincinnati, Ohio. Lubricator	326,518	Sept. 15	1721	449	32	1348
Powell, James, Cincinnati, Ohio. Lubricator	326,519	Sept. 15	1723	449	32	1348
Powell, James, Cincinnati, Ohio. Lubricator	326,520	Sept. 15	1724	449	32	1348
Powell, James, Cincinnati, Ohio. Lubricator	326,521	Sept. 15	1726	450	32	1349
Powell, James, Cincinnati, Ohio. Gland-adjuster for stuffing-boxes	326,522	Sept. 15	1727	450	32	1349
Powell, James, Cincinnati, Ohio. Lubricator	332,023	Dec. 15	2002	525	33	1368
Powell, John G., Philadelphia, Pa. Umbrella notch and runner	314,394	Mar. 24	1832	487	30	1144
Powell, John G., Philadelphia, Pa. Mold for umbrella notches and runners	314,395	Mar. 24	1833	488	30	1144
Powell, John G., assignor to himself and E. Powell, Philadelphia, Pa. Chain	324,587	Aug. 18	1603	441	32	837
Powell, John R., Plymouth, Pa. Miner's squib	326,057	Sept. 8	1115	284	32	1228
Powell, John R., Plymouth, Pa. Miner's squib	326,230	Sept. 15	1367	353	32	1280
Powell, Moses W., Chicago, Ill. Fire and water proof roof	318,023	May 19	1472	394	31	810
Powell, Nelson A., Lenoir, N. C. Plow	315,441	Apr. 7	633	163	31	113
Powell, Richard J., assignor to himself, W. F. Nolan, and J. Rohsenberger, Evansville, Ind. Awning	333,479	Dec. 29	8194	835	33	1593
Powell, Richard J., and W. F. Nolan, Evansville, Ind. Machine for attaching buttons to garments	318,024	May 19	1473	394	31	810
Powell, Richard J., and W. F. Nolan, Evansville, Ind. Fastening for buttons	322,124	July 14	979	255	32	187
Powell, Thomas, assignor to Stockton Combined Harvester and Agricultural Works, Stockton, Cal. Combined header and thrasher	323,961	Aug. 11	749	208	32	671
Powell, William H., Philadelphia, Pa. Spring-motor	332,000	Dec. 8	1113	290	33	1206
Powell, William H. H., and J. T. Grimm, West Finley, Pa. Brake-lever	328,971	Oct. 27	1832	508	33	378
Power & Co., L. (See Feyh and Murphv, assignors.)						
Power, John W., Carthage, Ind. Weather-strip	319,121	June 2	234	61	31	1091

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Power, John W., West Bay City, Mich. Safety-valve.....	328,062	Oct. 13	736	190	33	138
Power, Joseph P. (See Logan, John B., assignor.)						
Powers, Daniel E., assignor, by means assignments, to Patent Paper Cigar Box Company, New York, N. Y. Paper box.....	324,588	Aug. 18	1604	442	32	837
Powers, Daniel E., assignor, by means assignments, to Patent Paper Cigar Box Company, New York, N. Y. Cigar box.....	324,589	Aug. 18	1604	442	32	837
Powers, Daniel E., assignor to Patent Paper Cigar Box Company, New York, N. Y. Cigar-box.....	325,627	Sept. 1	544	138	32	1118
Powers, David J., Chicago, Ill. Anti-friction bearing.....	313,022	Feb. 24	2126	579	30	764
Powers, David J., Chicago, Ill. Caster.....	313,023	Feb. 24	2128	579	30	764
Powers, David J., Chicago, Ill. Ditching-machine.....	319,421	June 2	593	161	31	1181
Powers, David J., Chicago, Ill. Folding bed.....	321,912	July 7	687	179	32	125
Powers, David J., assignor to Union Wire Mattress Company, Chicago, Ill. Folding bed. (Reissue).....	10,606	June 2	626	169	31	1167
Powers, David J., assignor to Union Wire Mattress Company, Chicago, Ill. Folding bed.....	321,911	July 7	686	178	32	124
Powers, Emory R., Paradise, Cal. Tire-tightener.....	325,442	Sept. 1	307	75	32	1074
Powers, Francis G. (See Hall and Powers.)						
Powers, Frank B., Springfield, Mass. Velocipede.....	313,234	Mar. 3	295	74	30	830
Powers, George W., J. H. Jones, and J. M. Powers, Streator, Ill. Chimney-cowl.....	320,815	June 23	2531	671	31	1535
Powers, Gershom, et al. (See Kearney, Frank B., assignor.)						
Powers, Henderson M., Lancaster, Pa. Apparatus for drawing liquids.....	329,945	Nov. 10	708	181	33	644
Powers, James M. (See Powers, Jones, and Powers.)						
Powers, Jay W., assignor of two-thirds to M. J. and R. S. Moth, Winnetka, Ill. Pump.....	315,442	Apr. 7	633	163	31	113
Powers, Joseph A. (See Ball, Clinton M., assignor.)						
Powers, Joseph A. (See Farrar and Powers.)						
Powers, Joseph A., Lansingburg, N. Y. Oscillating engine.....	312,757	Feb. 24	1771	468	30	702
Powers, Joseph A., Troy, N. Y. Commutator-brush for dynamo or magneto electric machines.....	324,590	Aug. 18	1606	442	32	838
Powers, Joseph A., and C. M. Ball, Troy, N. Y. Bearing for shafting.....	314,475	Mar. 24	1948	519	30	1165
Powers, Robert, Charleston, Miss. Steam-wheel.....	312,015	Feb. 10	758	207	30	497
Powers, Ruben B., et al. (See Lovett, John, assignor.)						
Powers, William K., St. Louis, Mo. Calcimine compound.....	322,851	July 21	1943	.....	32	369
Powers, William P., La Crosse, Wis. Well-pump.....	313,521	Mar. 10	666	174	30	909
Powley, George, Toronto, Ontario, Canada. Black-leaf check-book.....	310,311	Jan. 6	900	54	30	38
Poyner, John S., Walnut Springs, Tex. Surgical instrument.....	322,198	July 14	1075	279	32	904
Poyser, John, Sherwood Rise, Mansfield, county of Nottingham, England. Railway and tramway chair, &c.....	321,247	June 30	3101	824	31	1645
Poyser, Thomas, San Francisco, Cal. Paint-breamer.....	324,163	Aug. 11	1026	280	32	728
P'Pool, Frank E. (See Young and P'Pool.)						
Prahar, Louis B. (See Shepard, Charles S., assignor.)						
Prahar, Louis B., assignor to himself and C. S. Shepard, Brooklyn, N. Y. Bag, pocket-book, or purse frame.....	314,345	Mar. 24	1772	472	30	1132
Prahar, Louis B., assignor to himself and C. S. Shepard, Brooklyn, N. Y. Fastening for bag, pocket-book, or purse frames.....	316,173	Apr. 21	1657	434	31	314
Prahar, Louis B., assignor to himself and C. S. Shepard, Brooklyn, N. Y. Handle cap-fastening for hand-bag frames.....	331,651	Dec. 1	615	152	33	1105
Prall, Effie L., and A. Williams, Wellington, Kans. Folding chair.....	332,749	Dec. 22	2191	579	33	1410
Prall, Walter P., Woodbridge, N. J. Horse hay-rake.....	333,084	Dec. 22	2649	625	33	1492
Prat, Auguste. (See Prat, Emile and A.)						
Prat, Emile and A., Grenoble, France. Machine for sharpening and setting saws.....	316,568	Apr. 28	2183	575	31	415
Prather, John N. (See Matlick, Isaac N., assignor.)						
Pratt, Albert W. (See Stone and Pratt.)						
Pratt, Arthur L., Kalamazoo, Mich. Money-changer.....	315,544	Apr. 14	709	211	31	149
Pratt, Augustus W., Watford, N. Y. Adjustable water-line indicator for steam-boilers.....	315,659	Apr. 14	947	248	31	177
Pratt, Charles E., Boston, Mass., and A. E. Wallace, assignors to Pope Manufacturing Company, Hartford, Conn. Velocipede.....	310,540	Jan. 6	465	135	30	93
Pratt, Charles E., Boston, Mass., assignor to Pope Manufacturing Company, Hartford, Conn. Velocipede-saddle.....	312,219	Feb. 10	1039	285	30	548
Pratt, Charles E., Boston, Mass., assignor to Pope Manufacturing Company, Hartford, Conn. Velocipede.....	318,500	May 26	2100	566	31	936
Pratt, Charles E., assignor of one-half to H. Cunningham, Chicago, Ill. Fare-register.....	319,847	June 9	1190	314	31	1274
Pratt & Cody Company. (See Friable, Henry R., assignor.)						
Pratt, David F. (See Heywood and Pratt.)						
Pratt, Edwin E., assignor to A. N. Kellogg Newspaper Company, Chicago, Ill. Stereotype-plate holder.....	311,524	Feb. 3	89	26	30	366
Pratt, Edwin E., assignor to A. N. Kellogg Newspaper Company, Chicago, Ill. Fastening for stereotype-boxes.....	324,956	Aug. 25	2121	580	32	941
Pratt, Edwin E., and C. S. Partridge, assignors to A. N. Kellogg Newspaper Company, Chicago, Ill. Machine for trimming stereotype-plates.....	316,398	Apr. 21	1950	614	31	365
Pratt, Erasmus S., Brooklyn, N. Y., assignor to American Buttonhole, Overseaming and Sewing Machine Company, Philadelphia, Pa. Button-hole attachment for sewing-machines.....	332,676	Dec. 15	2024	547	33	1382
Pratt, Francis A., assignor to Pratt & Whitney Company, Hartford, Conn. Frame and carriage for machines.....	319,618	June 9	886	235	31	1220
Pratt, Francis A., assignor to Pratt & Whitney Company, Hartford, Conn. Milling-machine.....	323,202	July 28	2448	640	32	469
Pratt, Granville C., Anoka, Minn. Clay-pulverizer.....	315,064	Apr. 7	110	26	31	21
Pratt, Harry P., assignor, by means assignments, to himself, C. C. Bonney, J. A. Hamlin, C. E. Barrett, Chicago, and W. R. Plumm, Lombard, Ill., trustees. Telephone.....	310,961	Jan. 20	1040	281	30	205
Pratt, Henry B., Concordville, Pa. Thill-coupling.....	317,849	May 12	1232	325	31	757
Pratt, James F., Chicago, Ill. Sole-protector.....	327,194	Sept. 29	2681	696	32	1533
Pratt, John J., Wakefield, Mass. Hardening and coloring serpentine rock.....	313,522	Mar. 10	667	.....	30	910
Pratt & Leitchworth. (See Basinger, James M., assignor.)						
Pratt & Leitchworth. (See Hewitt, Leslie, assignor.)						
Pratt & Leitchworth. (See Maxwell, Andrew, assignor.)						
Pratt Manufacturing Company. (See Rogers and Vose, assignors.)						
Pratt, Morris, Milton Junction, Wis. Burglar-alarm.....	320,686	June 23	2381	629	31	1505
Pratt, Nathaniel W., Brooklyn, N. Y. Steam-generator.....	318,501	May 26	2101	567	31	936
Pratt, Nathaniel W., Brooklyn, N. Y. Fire-tube boiler.....	321,248	June 30	3103	825	31	1645
Pratt, Nathaniel W., Brooklyn, assignor to Stratton Separator Company, New York, N. Y. Steam-supply system.....	311,606	Feb. 3	197	56	30	386

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Pratt, Nathaniel W., Brooklyn, assignor to Babcock & Wilcox Company, New York, N. Y. Steam-generator	311,446	Jan. 27	1731	{ 471 472	30	339
Pratt, Nathaniel W., Brooklyn, assignor to Babcock & Wilcox Company, New York, N. Y. Steam-generator	314,196	Mar. 17	1569	{ 414 415	30	1084
Pratt, Nathaniel W., Brooklyn, assignor to Babcock & Wilcox Company, New York, N. Y. Steam-generator	323,881	Aug. 4	641	181	32	644
Pratt, Nathaniel W., Brooklyn, assignor to Babcock & Wilcox Company, New York, N. Y. Steam-generator	323,882	Aug. 4	641	181	32	644
Pratt, Nathaniel W., Brooklyn, assignor to Babcock & Wilcox Company, New York, N. Y. Furnace for steam-generators	323,883	Aug. 4	642	181	32	644
Pratt, Nathaniel W., Brooklyn, assignor to Babcock & Wilcox Company, New York, N. Y. Surface-blow for steam-generators	323,884	Aug. 4	643	182	32	644
Pratt, Nathaniel W., Brooklyn, N. Y., and G. E. Palmer, Chicago, Ill., assignors to Babcock & Wilcox Company, of New Jersey. Furnace for the combustion of bituminous coal	312,655	Feb. 24	1632	450	30	677
Pratt, Robert J., Greenbush Heights, assignor to Electric Manufacturing Company, Troy, N. Y. Reflecting galvanometer	323,203	July 28	2450	{ 650 651	32	470
Pratt, Ronello F., et al. (See Bozan, James F., assignor.)						
Pratt & Whitney Company. (See Pratt, Francis A., assignor.)						
Pratt & Whitney Company. (See Richards, Francis H., assignor.)						
Pratt & Whitney Company. (See Whitney, Amos, assignor.)						
Prax, Jean, Montreal, Quebec, Canada. Automatic measuring device for liquids	316,910	Apr. 28	2684	699	31	506
Pray, E. A. (See Smith, Andrew A., assignor.)						
Preater, James H., Brooklyn, N. Y. Shipping-drum	327,589	Oct. 6	116	27	33	22
Preater, James H., Brooklyn, N. Y. Sheet-metal canister	333,423	Dec. 29	3119	814	33	1581
Preble, Glenwood. (See Miller, Frank L., assignor.)						
Prece, William H., London, England. Telephone-exchange system	316,911	Apr. 28	2685	{ 699 700	31	507
Prefontaine, George G., assignor of one-half to F. A. Hotchkiss, Whitehall, N. Y. Oil-cup						
Prentice, Burton D., Castalia, Ohio. Potato-digger	327,452	Sept. 29	3009	786	32	1590
Prentice, George W., et al. (See Woodward, Erastus, assignor.)	316,657	Apr. 28	2297	603	31	436
Prentice, George W., Providence, R. I. Button-fastener	315,065	Apr. 7	110	26	31	23
Prentice, George W., Providence, R. I. Button and fastener	315,107	Apr. 7	250	61	31	46
Prentice, George W., Providence, R. I. Button and fastening	317,012	May 5	110	28	31	542
Prentice, George W., Providence, R. I. Glove-fastening	321,050	June 30	2850	758	31	1600
Prentice, George W., Providence, R. I. Button and fastener	327,710	Oct. 6	801	74	33	51
Prentice, Leon H., Waukegan, Ill. Steam-radiator	313,893	Mar. 17	1158	302	30	1009
Prentice, Leon H., Waukegan, Ill. Boiler	327,016	Sept. 29	2435	636	32	1490
Prentis, Frank, assignor of two-thirds to J. Tallman and H. Prentis, Grand Rapids, Mich. Rolling-pin	330,421	Nov. 17	1345	358	33	777
Prentis, Herman, et al. (See Prentis, Frank, assignor.)						
Prentiss, Charles H., Cleveland, Ohio. Apparatus for extracting paraffine from oils	316,058	Apr. 21	1493	390	31	284
Prentiss, F. F., et al. (See Richards, Francis H., assignor.)						
Prentiss, Frank S. R., assignor to G. H. Braman and M. W. Gano, Denver, Colo. Neck-tie-fastener	314,396	Mar. 24	1834	488	30	1145
Prentiss, Frederick H., Cambridge, and J. A. Tilden, Hyde Park, assignors to Automatic Fire Alarm Association, Boston, Mass. Electric thermostat	313,523	Mar. 10	668	174	30	910
Prenzel, Henry, Philadelphia, Pa. Supporting-insulator for telegraph-wires	315,660	Apr. 14	948	248	31	177
Prenzel, Joseph, Hirschberg, Germany. Violin	316,658	Apr. 28	2299	603	31	436
Presbrey, Oliver S., and A. Nall, Moriah, N. Y. Cultivator	312,382	Feb. 17	1264	349	30	599
Prescott, Clifford H., Lawrence, Mass. Drawing-board and T-square	315,545	Apr. 14	801	211	31	149
Prescott, De Witt C., Marinette, Wis. Saw-mill set-works	310,848	Jan. 13	877	{ 237 238	30	172
Prescott, De Witt C., Marinette, Wis. Reciprocating saw-mill	319,619	June 9	887	235	31	1290
Prescott, De Witt C., assignor to Marinette Iron Works Company, Marinette, and M. Jacker, Florence, Wis. Hoisting apparatus	313,104	Mar. 3	89	23	30	793
Prescott, Edwin, Arlington, Mass. Roofing-bracket	311,676	Feb. 3	283	78	30	402
Prescott, Edwin, Arlington, Mass. Shutter-worker	328,141	Oct. 13	821	215	33	156
Prescott, Edwin, Arlington, and C. H. T. Mann, Methuen, Mass. Cattle-fastener	313,524	Mar. 10	669	174	30	910
Prescott, George B., Jr., Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Cut-out for secondary batteries	327,964	Oct. 6	594	154	33	107
Presler, Jacob, assignor of one-half to G. Delong, Newville, Ind. Fence	314,605	Mar. 31	2118	565	30	1222
Presley, Joseph P., Stanton, Mich. Marking-tag	321,324	June 30	3273	875	31	1679
Press, John H., Olney, Ill. Clothes-drier	313,766	Mar. 10	992	256	30	970
Presser, William H., East Saginaw, Mich. Equalizing the tension in circular saws	316,659	Apr. 28	2299	604	31	436
Presssey, George W., Hammon, N. J. Brooder	328,860	Oct. 20	1771	469	33	338
Pressley, Leonidas C., San Francisco, Cal. Motor for propelling cars and vehicles	330,151	Nov. 10	986	{ 256 257	33	700
Presson, David S. (See Rust, George P., assignor.)						
Prestat, Ambrose, South Abington Station, Mass. Machine for making shoe-nails	326,240	Sept. 15	1368	{ 353 354	32	1281
Preston, Albert F., Lynn, assignor to Preston Machine Company, Boston, Mass. Machine for marking the quarters of boots or shoes for buttons and button-holes	317,418	May 5	660	168	31	643
Preston, Albert F., Lynn, assignor to Preston Machine Company, Boston, Mass. Machine for marking the quarters of boots or shoes for the buttons	318,390	May 19	1957	587	31	900
Preston, Albert F., Lynn, assignor to Preston Machine Company, Boston, Mass. Machine for stretching uppers of boots or shoes	325,567	Sept. 1	469	117	32	1105
Preston, Almon E., Battle Creek, Mich. Elevator for thrashing-machines	313,767	Mar. 10	993	256	30	970
Preston, David R., Whitewater, Wis. Assignor to Esterly Harvesting Machine Company. Grain-binding harvester	330,422	Nov. 17	1346	359	33	777
Preston, E. B., et al. (See Adcock, Edmund, assignor.)						
Preston, Edward F. (See Preston, William W., assignor.)						
Preston, Ezra K., Beverly Farms, Mass. Hoisting-machine	323,074	July 28	2270	600	32	436
Preston, George E., et al. (See Adcock, Edmund, assignor.)						
Preston, George H., Ottawa, Ontario, Canada. Indicator	313,235	Mar. 3	297	74, 75	30	830
Preston, George L., Scranton, Pa. Cigar and cigarette case	312,656	Feb. 24	1633	450	30	678
Preston, James P., Bisbee, Ariz. Ter. Link for chains	331,326	Dec. 1	93	22	33	1015
Preston, John, Indianapolis, Ind. Convertible chair	326,241	Sept. 15	1371	{ 354 355	32	1281
Preston Machine Company. (See Preston, Albert F., assignor.)						
Preston, Richard. (See Hawkins and Preston.)						
Preston, Wallace A. (See Morrison and Preston.)						
Preston, William A., Fort Branch, Ind. Gate	322,852	July 21	1943	514	32	369
Preston, William M., Schoharie, N. Y. Lathe-chuck	316,912	Apr. 28	2689	700	31	507

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Preston, William W., Coldwater, assignor to himself and E. F. Preston, Bismarck, Mich. Plane-guide	323,595	Aug. 4	280	81	32	573
Pretschold, Hugo, assignor to J. G. Weldon and J. Kelly, Pittsburg, Pa. Hinge for stoves, &c.	322,394	July 14	1322	344	32	251
Pribyl, Ignatius M., Chicago, Ill. Convertible implement for cutting and marking	312,293	Feb. 17	1150	314	30	577
Price, Albert H. and W. D. Newark, Ohio. Harrow	328,519	Oct. 20	1315	342	33	255
Price, Benjamin, Baltimore, Md. Machine for soldering cans	331,909	Dec. 8	985	255	33	1123
Price, Charles B., Pittsburg, Pa. Railway-frog crossing	310,613	Jan. 13	580	180	30	117
Price, Charles B., Pittsburg, Pa. Railway-frog	323,596	Aug. 4	282	81, 82	32	574
Price, Charles H., and J. Stevenson, Adrian, Mich. Combined truck and bag-holder	312,016	Feb. 10	759	207	30	497
Price, George W., assignor to B. N. Baker, Baltimore, Md. Steam-engine	313,445	Mar. 3	571	147	30	883
Price, George W., assignor of one-half to W. J. Hooper, Baltimore, Md. Engine	324,592	Aug. 18	1606	443	32	838
Price, George W., assignor of one-half to W. J. Hooper, Baltimore, Md. Cut-off valve for engines	324,593	Aug. 18	1611	443	32	838
Price, Charles W., and A. Barrett, Kansas City, Mo., assignors to American Bell Telephone Company, Boston, Mass. Telephone system	324,591	Aug. 18	1607	443	32	838
Price, Charles W., New York, N. Y., and A. Barrett, Kansas City, Mo. Automatic electric annunciator	331,257	Nov. 24	2451	662	33	990
Price, Frederick A., Gresford, near Wrexham, county of Denbigh, England. Brushing apparatus for sieves	315,066	Apr. 7	111	26	31	22
Price, George C. and W. C., San Francisco, Cal. Pencil-sharpener	329,496	Nov. 3	83	22	33	921
Price, Henry F., Brooklyn, N. Y. Fishing tackle case. (Reissue)	10,598	May 19	2021	544	31	912
Price, Henry W. (See Blomstrom, John, assignor.)						
Price, Jacob, San Leandro, Cal. Seed-sower	317,013	May 5	111	26	31	549
Price, Jacob S., Mutual, Ohio. Device for changing speed	320,687	June 23	2382	630	31	1505
Price, John, Chicago, Ill. Smoke-house	327,453	Sept. 29	3010	786	32	1590
Price, John A., Scranton, Pa. Water-heater for stoves and ranges	312,017	Feb. 10	762	207	30	497
Price, John A., Scranton, Pa. Furnace-grate	312,293	Feb. 17	1151	314	30	577
Price, John A., Scranton, Pa. Stove or range	321,527	July 7	167	45	32	33
Price, John A., Scranton, Pa. Furnace	331,731	Dec. 1	733	184	33	1127
Price, John W., et al. (See Price, Joshua C., assignor.)						
Price, Joseph R., assignor of one-half to I. I. Barber, Hickory, Miss. Millstone-dress	314,977	Mar. 31	2644	699	30	1316
Price, Joshua C., Taylorsville, assignor of one-half to A. W. Wright and F. P. Roach, Chicago, Ill. Car-starter	323,962	Aug. 11	752	209	32	672
Price, Joshua C., assignor of one-half to J. W. Price, M. and A. Sattley, Taylorville, Ill. Plow-sharpener	327,590	Oct. 6	117	27	33	22
Price, Levi, and I. Wallach, assignors to H. Wallach & Sons, New York, N. Y. Shirt-bosom	317,417	May 5	662	168	31	643
Price, Loftus E., New Lots, assignor to Miles Brothers & Co., New York, N. Y. Bristle-holder	328,063	Oct. 13	727	190	33	138
Price, Oliver B. (See Donaldson, John E., assignor.)						
Price, Reuben L., Forestburg, Tex. Stalk-cutter	325,622	Sept. 1	545	138	32	1119
Price, Samuel C., Detroit, Mich. Flask-pin	315,661	Apr. 14	949	248	31	177
Price, V. Clarence, et al. (See Wilson, Merrick F., assignor.)						
Price, Wallace C. (See Price, George C. and W. C.)						
Price, Walter D. (See Price, Albert H. and W. D.)						
Price, Whitman, Mount Olive, N. C. Cotton-chopper	317,195	May 5	366	91, 92	31	590
Price, William, McKeesport, Pa. Making wrought-iron	323,365	July 28	2683	714	32	511
Price, William G., New Orleans, La. Fare-box	319,313	June 2	463	125	31	1136
Price, William G., New Orleans, La. Current-meter	325,011	Aug. 25	2197	602	32	953
Price, William G., New Orleans, La. Fare-box	326,778	Sept. 22	2108	548	32	1423
Price, William H., Jr., Cleveland, Ohio. Printing-machine	318,798	May 26	2509	669, 670	31	1007
Price, William R., Still Pond, Md. Fire-escape	318,391	May 19	1960	527, 528	31	901
Prickett, Herschel A., Columbia City, Ind. Breaching-stay for harness	328,901	Oct. 20	1828	476	33	349
Prickett, Joshua, Marinette, Wis. Device for holding circular saws	332,164	Dec. 8	1365	353	33	1249
Pride, Charles W. (See Smith and Pride.)						
Pridmore, Edward, assignor to Johnston Harvester Company, Batavia, N. Y. Mowing-machine	314,541	Mar. 24	2033	542, 543	30	1179
Pridmore, Henry E., Chicago, Ill. Mechanical movement	325,270	Sept. 1	50	15	32	1025
Pridmore, Henry E., assignor to McCormick Harvesting Machine Company, Chicago, Ill. Clutch	324,786	Aug. 18	1883	518	32	889
Priest, Augustus F., Fort William, Ontario, Canada. Rail-clearer for snow-plows	326,917	Sept. 22	2304	603	32	1458
Priest, Charles A., Fitchburg, Mass. Desk	322,125	July 14	980	256	32	187
Priest, James A., Utica, N. Y. Artificial tooth	310,849	Jan. 13	879	238	30	172
Priest, Joram, Grosse Point, Mich. Vehicle-spring	314,978	Mar. 31	2645	699	30	1316
Priest, Joseph K., Nashua, N. H. Hair-clipping machine	317,671	May 12	996	259	31	713
Priestland, Charles, Birmingham, England. Knob	319,848	June 9	1194	316	31	1275
Priestley, Forrest M., Grand Rapids, Mich. Vehicle-wheel	311,144	Jan. 20	1300	358	30	254
Priestley, John W., and A. Kunkler, Philadelphia, Pa. Fabric for carpets and other purposes	312,220	Feb. 10	1040	285	30	548
Primary Battery Company. (See Fitz Gerald and Jones, assignors.)						
Prime, William R., Richford, Vt., assignor of one-half to S. B. Foster, Chicago, Ill. Nursing-bottle	323,597	Aug. 4	284	82	32	574
Prince, Benjamin M., et al. (See Chamberlain, William T., assignor.)						
Prince, James A. (See Perry and Prince.)						
Prince, John, West Randolph, Vt. Knife for hoop-shaving machines	322,966	July 28	2114	563	32	408
Prince, John, West Randolph, Vt. Hoop-shaving machine	322,967	July 28	2116	564	32	408
Prince, William H., Cleveland, Ohio. Piston-rod packing	320,688	June 23	2382	630	31	1505
Prindle, Edward T., Aurora, Ill. Door-hanger	312,294	Feb. 17	1152	315	30	577
Prindle, Edward T., Aurora, Ill. Sash-fastener	324,883	Aug. 25	2025	555	32	922
Prindle, Edward T., Aurora, Ill. Carpet-sweeper	328,610	Oct. 20	1449	377	33	279
Prindle, Edward T., and F. C. Baird, Aurora, Ill. Sash-lock	330,892	Nov. 17	1827	492	33	570
Prindle, George S. (See Walker, Clarence T., assignor.)						
Prindle, Lyman B., Litchfield, Conn. Clothes-pin	329,487	Nov. 3	83	23	33	521
Prindle, Lyman B., Bentam, Conn. Metallic railway tie and chair	333,480	Dec. 29	3195	825	33	1596
Pringle, James C., and J. W. Holdsworth, St. Louis, Mo. Combined article of furniture	313,768	Mar. 10	994	257	30	971
Pringle, James S., Richland, Iowa. Gate-hanger	322,556	July 21	1547	409	32	297
Prinz, Faustlin, Milwaukee, Wis., assignor of one-fourth to J. K. Gehrig, Dundas, Minn. Middlings-purifier. (Reissue)	10,591	Apr. 28	2722	708, 709	31	514
Prinz, Hugo, assignor to Farbfabrik, vormals Brönnner, Frankfurt-on-the-Main, Germany. Manufacture of beta-naphthylamine sulpho-acid	332,829	Dec. 22	2287		33	1426
Prinz, Hugo, assignor to Farbfabrik, vormals Brönnner, Frankfurt-on-the-Main, Germany. Red coloring-matter from beta-naphthylamine sulpho-acid	332,830	Dec. 22	2288		33	1428

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Prinz, Otto, Lindenau, near Leipsic, Germany. Mordant.....	320,963	June 30	2736		31	1579
Prisleau, Philip, Jr., Melrose, Fla. Muzzle for cattle.....	322,199	July 14	1076	279	32	204
Prior, Joseph M., Boston, Mass. Adjustable pitch-board.....	320,080	June 16	1534	406	31	1344
Prior, Thomas W., Albany, N. Y. Device for holding steam-pipes, &c.....	325,767	Sept. 8	745	186	32	1160
Pritchard, Hattie B., Arnoldsburg, W. Va. Extension-bed.....	326,018	Sept. 22	2306	604	32	1459
Pritchard, John G., Poultney, Vt. Churn-ventilator.....	332,677	Dec. 15	2068	548	33	1382
Pritchard, John T., assignor of one-half to J. Work, Carson City, Nev. Automatic alarm for railway-crossings.....	311,607	Feb. 3	198	56	30	366
Pritchett, Andrew L., Maryville, Mo. Brush or broom support.....	323,527	Aug. 4	568	161	32	630
Probasco, H. R., trustee. (See Pennington and Gatchell, assignors.)						
Probert, Edward, San Francisco, Cal. Cupola-furnace having sectional water-jackets.....	320,586	June 23	2249	595 596	31	1481
Probst, Emadens, et al. (See Draper, Charley A., assignor.)						
Prockter, Henry R. (See Weston and Prockter.)						
Procter, Edwin R., Washington Court-House, Ohio. Nut-lock.....	328,972	Oct. 27	1952	508	33	378
Procter, Edwin R., Washington Court-House, Ohio. Nut-lock.....	333,155	Dec. 29	2758	722	33	1516
Procter, Edwin R., Washington Court-House, Ohio. Button or stud.....	333,156	Dec. 29	2759	722	33	1517
Proctor, Alexander M. (See Knight and Proctor.)						
Proctor, John C., Wooster, Ohio. Sliding window-screen.....	316,174	Apr. 21	1657	434	31	314
Proctor, Josiah K., Philadelphia, Pa. Window-screen.....	310,312	Jan. 6	901	55	30	38
Proctor, Josiah K., Philadelphia, Pa. Window-screen.....	318,799	May 26	2512	670	31	1007
Proctor, Josiah K., Philadelphia, Pa. Window-screen.....	319,422	June 2	595	162	31	1161
Proctor, Redfield. (See Patch, Fred R., assignor.)						
Proctor, Thomas E., Boston, R. Whitaker and H. P. Reed, Peabody, Mass. Conveying apparatus.....	327,108	Sept. 29	2564	668	32	1512
Proctor, Thomas F., Waltham, Mass. Apparatus for figuring watch-dials.....	310,313	Jan. 6	902	55	30	39
Proctor, Thomas P., executor. (See Hancock, John T.)						
Progler, Charles H., Jackson Court-House, W. Va. Luminous sign.....	332,210	Dec. 8	1425	368	33	1260
Prophet, Friedrich. (See Rosenkranz and Prophet.)						
Prosch, Cyrus, assignor to E. & H. T. Anthony & Co., New York, N. Y. Shutter for photographic cameras.....	312,581	Feb. 17	1542	420	30	651
Prosser, Thomas, Franklin Square, Ohio. Means for holding and preventing gas from escaping.....	326,242	Sept. 15	1373	355	32	1222
Protheroe, Pryse, North Sydney, Nova Scotia, Canada. Anchor.....	310,614	Jan. 13	582	160	30	118
Protheroe, Pryse, Surlinton, county of Surrey, England. Puzzle.....	332,211	Dec. 8	1426	368	33	1260
Proudfit, Andrew E., assignor to M. K. Bortree Corset Company, Madison, Wis. Corset.....	326,058	Sept. 8	1116	284	32	1229
Proudfit, Austin, Madison, Wis. Garment-supporter.....	318,204	May 19	1704	456	31	854
Prounsitzer, Julius, Nashville, Tenn. Trunk-tray.....	310,222	Jan. 6	78	20	30	17
Prouty, Enoch, Beloit, Wis. Printing-machine.....	317,470	May 5	736	186	31	656
Prouty, Enoch, Beloit, Wis. Paper-folding machine.....	327,965	Oct. 6	596	153	33	107
Provan, James W., Oshawa, Ontario, Canada. Hay-carrier.....	322,968	July 28	2119	564	32	409
Provoat, Charles W. (See Michaels, Oliver J., assignor.)						
Prowse, George R., Montreal, Quebec, Canada. Cooking-stove.....	320,499	June 23	2135	563 564	31	1459
Prowse, Leander M., Siloam Springs, Ark. Bed-spring.....	315,546	Apr. 14	802	212	31	149
Pruden, David, et al. (See Ball, William H., assignor.)						
Pruim, Hiram P., Grand Haven, Mich. Watch-maker's tool.....	312,221	Feb. 10	1041	285	30	548
Pruim, Hiram P., assignor of one-half to G. Stickney, Grand Haven, Mich. Breastpin.....	322,640	July 21	1656	438	32	317
Pruim, Hiram P., assignor of one-half to T. Cairns, Grand Haven, Mich. Adjusting beat of clocks.....	325,111	Aug. 25	2320	639	32	977
Pruntz, John E., Baltimore, Md. Relief-valve for steam fire-engines.....	311,145	Jan. 20	1301	358	30	254
Pruntz, John E., Baltimore, Md. Shut-off cock for nozzles.....	316,913	Apr. 23	2091	700	31	507
Pruntz, John E., Baltimore, Md. Nozzle.....	318,800	May 26	2512	670	31	1007
Prümann, Carl, assignor to Schäffer & Budenberg, Buckau, Germany. Governor.....	317,650	May 12	1232	326	31	757
Prümann, Carl, assignor to Schaffer & Budenberg, Buckau, Germany. Regulator-valve.....	321,913	July 7	689	179 180	32	155
Pryce, S. D. (See Long, Richard, assignor.)						
Prybil, Paul. (See Mackintosh, Edward D., assignor.)						
Pryor, John D. (See Bull, George, assignor.)						
Publow, James A., et al. (See Cook, Thomas G., assignor.)						
Pue, Charles R., Baltimore, Md. Gun-wad.....	320,500	June 23	2136		31	1459
Puetz, Tillman, Jr., St. Louis, Mo. Plug-tobacco machine.....	330,850	Nov. 17	1890	511	33	881
Puetz, Tillman, Jr., St. Louis, Mo. Automatic stop.....	330,851	Nov. 17	1891	511	33	881
Puetz, Tillman, Jr., assignor of one-third to G. W. Bransford, St. Louis, Mo. Plug-tobacco machine.....	330,849	Nov. 17	1888	510	33	880
Puffer, Alvin D., Medford, Mass. Fitting for soda-water apparatus.....	323,383	July 28	2706	720	32	515
Puffer, Alvin D., Medford, assignor to A. D. Puffer's Sons, Boston, Mass. Faucet.....	318,801	May 26	2513	671	31	1008
Puffer, Edwin E., Riverside, Ill. Recording weighing-scale.....	323,885	Aug. 4	643	182 183	32	645
Puffer, James F., Jr. (See Corey, George D., assignor.)						
Puffer's Sons, A. D. (See Puffer, Alvin D., assignor.)						
Pugh, Archelaus, St. Paul, Minn. Hoisting-machine.....	320,686	June 23	2624	604 605	31	1552
Puig, Plácido T., Barcelona, Spain. Oscillating water-meter.....	318,926	May 26	2675	709	31	1038
Pulaaki, Morris H., Philadelphia, Pa. Show-box for embroidery.....	314,542	Mar. 24	2034	543	30	1180
Pulaaki, Morris H., Philadelphia, Pa. Embroidery.....	319,122	June 2	235	62	31	1091
Pullar, Alfred, Edinburgh, county of Mid-Lothian, Scotland. Truss.....	318,434	May 19	2015	542	31	910
Pullen, Carroll J., Pawtucket, R. I. Carriage running-gear.....	320,000	June 16	1413	372	31	1321
Pulliam, William J., assignor of two-thirds to J. S. Devoe and W. V. Allen, Chico, Cal. Elevator-lifter for thrashing-machines.....	317,573	May 12	870	223	31	669
Pulling, James G. (See Shelburne, Cephas, assignor.)						
Pullman, Albert B. (See Wainwright, John W., assignor.)						
Pullman, Herbert S., assignor of one-half to J. C. Hammond, Jr., Rockville, Conn. Ice-creeper.....	330,512	Nov. 17	1464	391	33	799
Pullman Iron and Steel Company. (See Krplin, William, assignor.)						
Pullman, Smith C., Catskill, N. Y. Alarm for railway-trains.....	315,662	Apr. 14	949	249	31	177
Pullman, Smith C., Catskill, N. Y. Railway-signal.....	319,023	June 2	111	30	31	1069
Pulse, Charles N., Dodsonville, Ohio. Wire-stretcher.....	326,919	Sept. 22	2307	604	32	1459
Pulsifer, William H., St. Louis, Mo., assignor to himself and S. J. Colegate, New York, N. Y. Mixing white lead with oil.....	320,887	June 23	2629		31	1553
Pulver, Henry II., assignor of one-half to J. Stark, Jr., Waltham, Mass. Mainspring-winder.....	328,251	Dec. 29	2691	758	32	1541
Pulver, William, Italy Hill, N. Y. Ditching-machine.....	312,758	Feb. 24	1773	488	30	702
Pumphrey, Robert B., Baltimore, Md. Meat-cutter.....	319,928	June 9	1306	344	31	1295

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Pand, Henry, assignor to J. L. Hall, Cincinnati, Ohio. Coupling device for safe-spindles.	317,471	May 5	738	186	31	656
Purcell, George W., Black Hawk, Miss. Cotton-harvester.	310,314	Jan. 6	204	55	30	39
Purdy, Albert L., Allentown, N. Y. Potato-digger.	327,017	Sept. 29	2436	637	32	1490
Purdy, Stephen H., St. Paul, Minn. Steam-heating apparatus.	313,446	Mar. 3	573	147	30	883
Purdy, William H., Brooklyn, assignor, by mesne assignments, to United States Silvered Steel Company, Greenburg, N. Y. Compound for purifying iron and steel.	322,557	July 21	1547		32	297
Purdy, William H., Brooklyn, assignor, by mesne assignments, to United States Silvered Steel Company, Greenburg, N. Y. Purifying iron and steel.	322,558	July 21	1548		32	297
Purdy, Zachariah V., Louisville, Ky. Horseshoe-machine.	315,961	Apr. 14	1369	354	31	253
Purefoy, Addison F., Wake Forest, N. C. Spring bed-bottom.	333,252	Dec. 29	2893	757	33	1542
Purinton, Lydia S., Westborough, Mass. Corset.	320,964	June 30	2737	728	31	1579
Purman, Louis C., et al. (See Bond, Nathan O., assignor.)						
Purple, Jasper L., Owego, N. Y. Caster.	331,732	Dec. 1	734	185	33	1127
Purtell, Frank P. (See Kirby, James A., assignor.)						
Purviance, Benjamin F., assignor of one-half to C. Hills, Keokuk, Iowa. Automatic rail-way-switch.	322,395	July 14	1323	344	32	251
Pusch, Emil, et al. (See Brunck and Marsh, assignors.)						
Pusey, Joshua, Philadelphia, Pa. Artificial coating or sledding course.	318,025	May 19	1474	395	31	810
Pusey, Joshua, Philadelphia, Pa. Artificial coating-course.	318,026	May 19	1478	396	31	811
Puterbaugh, Isaac V., Vaughan, Ontario, Canada. Machine for cleaning and grading potatoes.	313,105	Mar. 3	91	23	30	793
Puterbaugh, Jacob J. (See Dockard, Stephen J., assignor.)						
Putnam-Cramer, Anthon W., Brooklyn, N. Y. Producing gas.	323,366	July 28	2685	715	32	511
Putnam, John, assignor to M. A. Putnam, Beardstown, Ill. Draft-equalizer.	310,850	Jan. 13	880	238	30	172
Putnam, Martha A. (See Putnam, John, assignor.)						
Putnam, Charles M. (See Ransom, Ezra, assignor.)						
Putnam, David V., Nolensville, Tenn. Car-coupling.	327,018	Sept. 29	2437	637	32	1490
Putnam, Doula C., Wayne Centre, N. Y. Oscillating engine.	319,423	June 2	596	162	31	1161
Putnam, George W., Malden, Mass. Fire-escape.	313,024	Feb. 24	2120	570	30	765
Putnam, J. Pickering, Boston, Mass. Water-trap.	311,085	Jan. 20	1220	334	30	229
Putnam, J. Pickering, Boston, Mass. Water-trap.	311,086	Jan. 20	1221	335	30	240
Putnam, J. Pickering, Boston, Mass. Water-trap.	311,087	Jan. 20	1223	335	30	240
Putnam, J. Pickering, Boston, Mass. Water-trap.	311,140	Jan. 20	1302	358	30	254
Putnam, Jacob D., South Lyndeborough, N. H. Telegraph-insulator.	324,857	Aug. 25	2123	540	32	941
Putnam, John, Philadelphia, Pa. Bird-cage.	311,848	Feb. 3	476	136	30	442
Putnam, John, Philadelphia, Pa. Slate-pencil sharpener.	324,787	Aug. 18	1885	518	32	859
Putnam, John P., Boston, Mass. Set-basin.	329,946	Nov. 10	710	182	33	644
Putnam, John P., Boston, Mass. Overflow-pipe for set-basins and similar fixtures.	329,947	Nov. 10	711	182	33	645
Putnam, Joseph W., New Orleans, La. Pile-driver.	312,582	Feb. 17	1544	420	30	651
Putnam, Salmon W., Fitchburg, Mass. Lathe.	313,447	Mar. 3	573	148	30	883
Putnam, Salmon W., and W. A. Foster, Fitchburg, Mass. Cutter-head.	324,041	Aug. 11	857	228	32	620
Putnam & Wineman. (See Bradbeer, Thomas J., assignor.)						
Putney, Alfred, London, England. Wood flooring, ceiling, or dado.	316,175	Apr. 21	1658	434	31	315
Pyle, George C., Cuyahoga Falls, Ohio, assignor to American Electric Headlight Company, Indianapolis, Ind. Electric-arc lamp.	329,948	Nov. 10	712	182	33	645
Pyle, George C., Cuyahoga Falls, Ohio, assignor to American Electric Headlight Company, Indianapolis, Ind. Electric lamp.	331,327	Dec. 1	94	22, 23	33	1015
Pyle, William, Wilmington, Del. Traction elevated railway.	318,097	May 19	1481	396 397	31	811
Pyne, George R. (See Overell, Joseph M., assignor.)						
Pyne, William R., Port-of-Spain, Trinidad, West Indies. Fire-escape.	321,385	June 30	3274	875	31	1679
Pyott, Louis T., Philadelphia, Pa. Band-saw mill.	325,629	Sept. 1	546	138 139	32	1119
Quackenbush, Jesse H., East Saginaw, Mich. Safety-gate for pivot-bridges.	321,249	June 30	3105	826	31	1645
Quackenbush, Warren W. (See Lytle, Henry B., assignor.)						
Quaglio, Julius, Frankfurt-on-the-Main, Prussia, assignor to himself, J. Pintsch, Berlin, and A. Lentz, Steinf, Germany. Furnace for reducing zinc and other metals.	312,759	Feb. 24	1774	489	30	702
Quaid, Harrison, assignor of two-thirds to H. A. Burt, Jr., and W. Y. Thomson, Schenectady, N. Y. Spring bed-bottom.	332,750	Dec. 22	2196	579	33	1410
Quaid, Martin D. (See Hammond and Quaid.)						
Quarrie, James. (See Dean, Richard, assignor.)						
Queen, Emmet, Johnstown, Pa. Drill-jar.	315,547	Apr. 14	803	212	31	150
Quick, George, Chipping-Campden, county of Gloucester, England. Lock for breech-loading ordnance.	324,272	Aug. 11	1184	321 322	32	750
Quiggle, William E., Dedham, Mass. Heel-plate for boots or shoes.	317,014	May 5	113	29	31	543
Quigley & Co., W. B. (See Bancroft, Melvin, assignor.)						
Quigley, James. (See Gunning and Quigley.)						
Quigley, Robert J. (See Heffernan, Edward F., assignor.)						
Quimby, Edward E. (See Matthiessen and Quimby.)						
Quimby, Edward E., Orange, N. J., assignor to Rand Drill Company, of New York. Rotary feed for rock-drills.	312,383	Feb. 17	1264	349	30	599
Quimby, Edward E., Orange, assignor to F. O. Matthiessen & Wiechers Sugar Refining Company, Jersey City, N. J. Apparatus for decolorizing sugar-liquor by upward filtration through bone-black.	329,210	Oct. 27	2299	595 596	33	439
Quimby, John, Jr., Dorchester, N. H. Lamp-chimney holder.	314,397	Mar. 24	1835	469	30	1145
Quimby, Julius F., assignor to Swift, Quimby & Co., Troy, N. Y. Oil-stove.	313,525	Mar. 10	670	175	30	910
Quimby, Benjamin F., Boston, Mass. Circular wire brush.	327,720	Oct. 6	2292	74	33	51
Quincy Metal Wheel Company. (See Little, James R., assignor.)						
Quinlan, William, Owego, N. Y. Tap for boots or shoes.	315,068	Apr. 7	115	27	31	23
Quinn, Charles C., Fargo, Dak. Ter. Switch, frog, guard-rail, and crossing flange and clearer.	319,314	June 2	465	125 126 127	31	1136
Quinn, Charles C., Fargo, Dak. Ter. Tunnel-excavator.	330,617	Nov. 17	1598	424 425	33	824
Quinn, Isaac T., assignor of two-thirds to F. B. Handwerk and S. C. Stough, Morris, Ill. Tank for curing flax.	329,949	Nov. 10	714	182	33	645
Quinn, James B., St. Paul, Minn. Valve-gear.	329,338	Oct. 27	2486	641	33	474
Quinn, Patrick, St. Louis, Mo. Vehicle-spring.	313,526	Mar. 10	671	175	30	910
Quinn, William L., et al. (See Wood, John B., assignor.)						
Quint, Henry F., and J. H. Mowen, Brooklyn, N. Y. Textile trimming.	318,028	May 19	1483	397	31	812
Quivey, Joseph M. (See Shaw, James F., assignor.)						
Raab, Joseph, Dayton, Ohio. Turbine water-wheel.	325,112	Aug. 25	2321	639	32	978
Raabe, Charles E., and G. E. Hackell, Milwaukee, Wis. Suspension-hook.	331,819	Dec. 8	854	219	33	1157
Raabe, Julius, and W. H. Fisher, Cincinnati, Ohio; said Raabe assignor to said Fisher. Cartridge-shell holder.	330,513	Nov. 17	1464	392	33	799

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Rabbe, William, Cincinnati, Ohio. Gluing and staining machine.	320,816	June 23	2532	671	31	1535
Rabe, Heinrich, Hanau, Prussia, Germany. Electric impulsion device for a torsion-pendulum.	325,113	Aug. 25	2323	639	32	978
Race, George, Norwich, N. Y. Ironing-table.	329,950	Nov. 10	715	183	33	646
Race, Joseph P., and B. E. Guensey, St. Paul, Minn. Car-step.	322,749	July 21	1803	476	32	344
Racey, John, assignor to himself and J. Williams, Quebec, Canada. Blind-slat check.	319,620	June 9	888	235	31	1220
Rachler, Michael, and I. Rothziegel, Vienna, Austria-Hungary. Heel for boots or shoes.	317,575	May 12	572	224	31	669
Racine, Charles, Chicago, Ill. Consecutive printing attachment for printing-presses.	327,591	Oct. 6	118	27	33	22
Radcliffe, Robert D. (See Denison, Sylvester P., assignor.)						
Raddata, Gottfred. (See Stoll, Jacob, assignor.)						
Raddin, John, Lynn, Mass. Car-coupling.	313,527	Mar. 10	672	176	30	911
Rademacher, Joseph, and K. A. Lemon, Clinton, Ill. Flue-welding device.	312,895	Feb. 24	1951	534	30	733
Radenhausen, Paul, Altona, Sleswick-Holstein, Prussia, Germany, assignor to Davenport Glucose Manufacturing Company, Davenport, Iowa. Manufacture of starch, glucose, &c.	319,315	June 2	466		31	1136
Rader, Gustavus W., New York, N. Y. Gutter for sewers.	313,620	Mar. 10	795	208	30	934
Radix Manufacturing Company. (See Root and Childs, assignors.)						
Radley, Daniel A., Lawrenceburgh, Mo. Case for copy-books and copies.	320,444	June 16	2056	539	31	1436
Rae, Frank B., Newark, N. J. Insulating and anti-induction tube for electric conductors.	325,830	Sept. 1	547	139	32	1119
Raeke, Theodore, Baltimore, Md. Fat-cutter.	319,316	June 2	467	126	31	1137
Raff, Henry L., assignor of one-half to J. Spung, Memphis, Tenn. Dumping-wagon.	317,576	May 12	573	224	31	669
Raiffelsen, Charles J. (See Springe and Raiffelsen.)						
Railing, William B., and C. N. May, Mechanicsburg, Pa. Safety-valve and alarm for steam-bollers.	317,952	May 12	1367	367	31	783
Railway Register Manufacturing Company. (See Benton, John B., assignor.)						
Railway Register Manufacturing Company. (See Corbett, Joseph, assignor.)						
Railway Speed Recorder Company. (See Hawkins, J. Wesley, assignor.)						
Railway Speed Recorder Company. (See Wilkins and Bartlett, assignors.)						
Railway Speed Recorder Company. (See Wilkins and Miller, assignors.)						
Railway Telegraph Company. (See Phelps, Lucius J., assignor.)						
Rainey, Joseph T., Marion, Ill. Car-coupling.	317,196	May 5	368	92	31	590
Rains, Hugh B., and G. Tarkington, Danville, Ky. Wire fence.	314,877	Mar. 31	2501	663	30	1293
Rais, Adrian, assignor to Brown & Brothers, Waterbury, Conn. Mold for casting seamless tubing.	331,820	Dec. 8	855	219	33	1157
Raisbeck, George A., Brooklyn, N. Y., assignor of one-half to P. Hake, Hoboken, N. J. Ornamental embossed card.	324,164	Aug. 11	1027	280	32	721
Rakestraw, William H. (See Beard, George M., assignor.)						
Raleigh, Maurice F., Evansville, Ind. Bedstead-fastening.	319,317	June 2	468	126	31	1137
Rail, Henry, St. Louis, Mo. Lard and oil rendering tank.	318,502	May 26	2102	567	31	936
Rail, Henry, St. Louis, Mo. Lard and oil rendering tank.	318,503	May 26	2103	567	31	937
Ralls, James D. (See Ralls, Robert B., assignor.)						
Ralls, Robert B., assignor of one-half to J. D. Ralls, Montrose, Mo. Combined roller and cultivator.	330,514	Nov. 17	1467	392	33	800
Ralph, Alexander, Philadelphia, Pa. Hatchway.	321,638	July 7	309	82	32	59
Ralston, David, Troy, N. Y. Machine for sanding brick-molds.	321,528	July 7	169	45.46	32	34
Ralston, John C., Toledo, Ohio, assignor to R. Freeland, Boston, Mass. Remelting soap.	322,611	Oct. 20	1450	378	33	279
Ralston, John C., Toledo, Ohio, assignor to R. Freeland, Boston, Mass. Apparatus for remelting soap.	322,714	Oct. 20	1598	416	33	305
Ralston, Joseph, Brenham, Tex. Cotton-cleaner.	310,315	Jan. 6	205	55.56	30	39
Ram, James, London, England. Game apparatus.	320,091	June 16	1536	406	31	1344
Ramel, Alfred, and W. W. Dean, assignors of one-half to P. Bakewell, St. Louis, Mo. Clock-synchronizer.	330,923	Nov. 24	1989	538	33	907
Ramm, William, Kemma, Nebr. Animal-catcher.	320,177	June 16	1634	435	31	1261
Rammoeer, Albert, Berlin, Germany. Corset-fastening.	330,177	Nov. 10	967	257	33	700
Ramsay, Charles W., Brooklyn, N. Y. Apparatus for aging and preserving distilled and fermented liquids.	313,236	Mar. 3	298	75	30	831
Ramsay, Charles W., Brooklyn, N. Y. Apparatus for treating fermented, fermentable, or distilled liquids.	313,237	Mar. 3	300	75	30	831
Ramsay, William, Turedale Colliery, county of Durham, assignor of one-half to T. H. Bell, Middlesbrough, England. Machine for washing coal, &c.	323,075	July 28	2271	601	32	436
Ramsay, William F. (See Wyatt, Matthew T., assignor.)						
Ramsdall, Franklin P. (See McPherson and Ramsdall.)						
Ramsdell, George, Oswego, N. Y. Apparatus for manufacturing gas from wood.	317,197	May 5	369	92	31	590
Ramsdell, Ido, Atlanta, Ga. Producing transfers of drawings, engravings, &c.	313,106	Mar. 3	92		30	794
Ramsdell, Ido, Atlanta, Ga. Treating paper to preserve it against the corrosive action of acids.	313,107	Mar. 3	92		30	794
Ramsden, E. Archibald. (See Hamilton, James B., assignor.)						
Ramser, Paul, Montezuma, Iowa. Window-screen.	328,064	Oct. 13	729	190	33	138
Ramsey, Alexander. (See Wulff, Adolph, assignor.)						
Ramseyer, George A., Dobbs Ferry, N. Y. Music-stool.	325,443	Sept. 1	308	75	32	1074
Rand, Addison C., New York, N. Y. Steam rock-drill.	328,612	Oct. 20	1452	378	33	279
Rand Drill Company. (See Githens, Joseph C., assignor.)						
Rand Drill Company. (See Quimby, Edward E., assignor.)						
Rand, Franklin M., Turner's Falls, Mass. Letter-file.	327,310	Sept. 29	2823	736	32	1559
Rand, Joshua P., Dallas City, Ill. Weed-killing machine.	311,525	Feb. 3	90	26	30	366
Randall, Aaron F., assignor of one-eighth to C. B. Randall, Washington, D. C. Apparatus for manufacturing gas.	317,953	May 12	1368	367 368	31	783
Randall, Amelia A. (See Randall, Silas G., assignor.)						
Randall, Carlos B. (See Randall, Aaron F., assignor.)						
Randall, Charles A., New York, N. Y. Telephone-transmitter.	312,160	Feb. 10	959	262 263	30	534
Randall, Charles A., New York, N. Y. Telephone-transmitter.	312,161	Feb. 10	961	263 263	30	534
Randall, Charles A., New York, N. Y. Telephone-receiver.	312,162	Feb. 10	964	263	30	534
Randall, Charles A., Brooklyn, N. Y., assignor, by mesne assignments, to National Improved Telephone Company. Telephonic apparatus.	312,896	Feb. 24	1952	534	30	733
Randall, Elisha L., Durand, Wis. Construction of buildings.	311,677	Feb. 3	224	78	30	402
Randall, Elisha W. (See Randall, Timothy P., assignor.)						
Randall, Frank J., deceased, (I. F. Randall, administratrix,) Aurora, and G. B. Snow, Sugar Grove; said administratrix and said Snow assignors to W. Deering, Chicago, Ill. Corn-harvester.	311,526	Feb. 3	90	26 27 28	30	366
Randall, George S., Marshfield, assignor to H. C. Barnes, Boston, Mass. Box-fastener.	316,823	Apr. 28	2547	660	31	481
Randall, Ida F., administratrix. (See Randall and Snow.)						
Randall, Isaac H., Boston, Mass. Car-spring.	315,834	Apr. 14	1184	309	31	222
Randall, James D., and W. A. King, assignors to themselves and W. T. Arrington, Memphis, Tenn. Steam-boller and furnace.	312,163	Feb. 10	967	263 264	30	535

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Randall, Lewis L., Hawkinsville, Ga. Water-wheel	323,734	Aug. 4	460	130	32	609
Randall, Nelson L., Grafton, assignor to Wright Machine Company, Worcester, Mass. Drawing-roll	331,328	Dec. 1	100	23	33	1016
Randall, Perry D. (See Webb, Carlos N., assignor.)						
Randall, Silas G., assignor to A. A. Randall, Greene, N. Y. Mortise-cutter	321,853	July 7	620	159	32	113
Randall, Squire J., Moodyville, New Westminster, British Columbia. Saw gummer and sharpener	326,243	Sept. 15	1374	355	32	1262
Randall, Timothy P., Adrian, Mich. Thill-coupling	322,481	July 21	1453	382	32	280
Randall, Timothy P., Adrian, Mich. Anti-rattler for thill-couplings	332,943	Dec. 22	2446	647	33	1458
Randall, Timothy P., assignor of one-fourth to E. W. Randall, Scofield, Mich. Thill-coupling	313,528	Mar. 10	673	176	30	911
Randel, John N., Castle Rock, Colo. Concentrator	332,931	Dec. 22	2288	603	33	1428
Randel, William, Glens Falls, N. Y. Hood and other garments	330,515	Nov. 17	1468	392	33	800
Randle & Co., J. E. (See Garalde, Robert, assignor.)						
Randles, Henry, Clark's, Ohio. Coffin-stool	327,311	Sept. 29	2824	737	32	1559
Raudol, Alexander, Tarentum, assignor of two-thirds to J. M. Arnold, Pittsburg, and G. S. McKee, Allegheny City, Pa. Underground gas-main	315,443	Apr. 7	634	164	31	113
Raudol, Alexander, Tarentum, assignor of six-tenths to G. S. McKee, Allegheny City, and J. M. Arnold, Pittsburg, Pa. Gas-burning apparatus	316,059	Apr. 21	1495	390	31	284
Randolph, Arthelow M., Brainerd, Minn., assignor to himself, J. G. Butterfield, and J. S. Wheeler, Sioux City, Iowa. Journal-bearing and metallic compound therefor	320,445	June 16	2057	540	31	1436
Randolph, David S., assignor of one-half to J. A. Cable, St. Louis, Mo. Amalgamator	311,258	Jan. 27	1466	401	30	291
Randolph, George W. (See Tippet, James A., assignor.)						
Randolph, Norman V., Richmond, Va. Watch-movement box	321,854	July 7	621	160	32	113
Randolph, Richard, Rockville, Md. Automatic car-brake	332,944	Dec. 22	2447	648	33	1458
Raney, Ollie T., Melissa, Tex. Plaiting apparatus	320,659	June 23	2384	630	31	1506
Rankin, David, et al. (See Cash, Evan F., assignor.)						
Rankin, Frank N., Shelbyville, Tenn. Hame-fastener	332,107	Dec. 8	1289	333	33	1235
Rankin, Thomas, et al. (See Komp, John F., assignor.)						
Rankin, Thomas L., Quenemo, Kans. Ice-machine	332,361	Dec. 15	1639	429	33	1305
Rankin, Thomas L., New York, N. Y., assignor to J. W. Skinkle, Chicago, Ill. Valve	312,164	Feb. 10	968	264	30	535
Rankin, Thomas L., New York, N. Y., assignor to J. W. Skinkle, Chicago, Ill. House-refrigerating apparatus	316,292	Apr. 21	1808	475	31	340
Rankin, Thomas L., New York, N. Y., assignor to J. W. Skinkle, Chicago, Ill. Ice-machine	316,294	Apr. 28	2547	667	31	428
Rankin, William H., Lawrence, Mass. Mechanical movement	312,760	Feb. 24	1775	489	30	703
Rankin, William H., Lawrence, Mass. Attachment for dye-vats	333,157	Dec. 29	2760	723	33	1517
Rankine, William B., et al. (See Smith, A. Buttle, assignor.)						
Ranney, David F., assignor to Florence Machine Company, Florence, Mass. Take-up mechanism for sewing-machines	327,410	Sept. 29	2960	773	32	1582
Ransom, Ezra, assignor of one-half to C. M. Putnam, Flint, Mich. Car-coupling	325,114	Aug. 25	2324	640	32	978
Ransom, Frank H., Buffalo, N. Y. Trunk	316,176	Apr. 21	1650	434	31	315
Ransom, Frank H., and A. W. Sangster, Buffalo, N. Y.; said Sangster assignor to said Ransom. Brace-hinge for trunks	316,309	Apr. 21	1951	514	31	366
Ransom, Hiram W., assignor to Emerson & Fisher Company, Cincinnati, Ohio. Two-wheeled vehicle	326,587	Sept. 22	1810	475	32	1372
Ransom, Hiram W., assignor of one-half to Emerson & Fisher Company, Cincinnati, Ohio. Forge	326,588	Sept. 22	1811	476	32	1372
Ransom, Martin. (See Walker and Ransom.)						
Ransom, Mary, Brooklyn, N. Y. Combined ironing board and table	330,618	Nov. 17	1580	425	33	824
Ransom, Moses Y., Cleveland, Ohio. Interlocking spiral molding as an article of manufacture	326,329	Sept. 15	1492	389	32	1305
Ransome, Ernest L., Oakland, Cal. Mold or cribbing for concrete structures	314,398	Mar. 24	1835	469	30	1145
Ransome, Ernest L., San Francisco, Cal. Concrete-mixing machine	322,006	July 14	819	214	32	157
Ransome, Ernest L., Oakland, Cal. Bricks, building-blocks, &c., made of purified ashes and lime	322,559	July 21	1549		32	297
Raper, William, Windsor, Ontario, Canada. Draw-bar	322,200	July 14	1076	279	32	265
Rapp, Christian F., Cincinnati, Ohio. Concrete pavement	312,897	Feb. 24	1953	534	30	733
Rapp, Frederick, Chicago, Ill. Watch-case hinge	313,448	Mar. 3	575	148	30	823
Rapp, Frederick, Chicago, Ill. Watch-case hinge	313,449	Mar. 3	576	148	30	824
Rappleys, Nicholas. (See Sparks and Rappleys.)						
Rappleys, Nicholas, Rochester, N. Y. Burial-casket	310,223	Jan. 6	78	21	30	17
Rardon, Everett. (See Blain and Rardon.)						
Rasch, Peter. (See Frederiksen and Rasch.)						
Rasmussen, Charles W., assignor to United States Cable Railway Company, Chicago, Ill. Wire rope or cable railway. (Reissue)	10,602	May 26	2696	714	31	1041
Rasmussen, Carl P., Copenhagen, Denmark. Repetition-action for upright pianos	317,198	May 5	371	93	31	591
Rasmussen, Edward L., Duluth, Minn. Weed-pulling machine	328,715	Oct. 20	1600	417	33	305
Rasner, Abraham, Pittsburg, Pa. Combined shaker and strainer	316,825	Apr. 28	2550	668	31	422
Rassbach, Hermann. (See Jungenfeld and Rassbach.)						
Ratcliff, James E., assignor of one-half to J. McGinnis, Dawson, Ill. Harvester cutter-bar	318,802	May 26	2514	671	31	1009
Ratcliff, William H., Agency, Mo. Stirrup	319,123	June 2	237	62	31	1091
Ratcliffe, Benjamin E., New York, N. Y. Composition of matter for facing brown stone and for making artificial stone	321,137	June 30	2967		31	1620
Rate, Edward F., Chicago, Ill. Husking-glove	321,529	July 7	170	46	32	34
Rathbun, John H., assignor of one-half to C. H. De Lamater & Co., New York, N. Y. Tapping device	332,436	Dec. 15	1738	455	33	1321
Rathbun, John H., assignor of one-half to C. H. De Lamater, G. H. Robinson, and W. De Lamater, New York, N. Y. Tapping device	318,654	May 26	2309	617	31	973
Rathbun, Lewis V., Rochester, N. Y. Mesh-cleaning attachment for bolting-reels	320,690	June 23	2385	630	31	1506
Rathburn, James B. (See Kealey, Frank N., assignor.)						
Rather, Daniel, Jr., and S. Holly Springs, Miss. Sorghum-evaporator	312,510	Feb. 17	1454	398	30	634
Rather, Samuel. (See Rather, Daniel, Jr., and S.)						
Rathien, John H. (See Land, Silas, assignor.)						
Rathknecht, Victor, Chicago, Ill. Nursery-chair and carriage	320,587	June 23	2253	596	31	1482
Rathey, Emil, New York, N. Y. Flat-wire netting	328,716	Oct. 20	1601	417	33	306
Rau, Charles W., Allentown, Pa. Double-acting water-wheel	313,621	Mar. 10	796	209	30	934
Rau, Eugene, Brooklyn, N. Y. Apparatus for steaming dyed fabrics	312,205	May 19	1708	457	31	854
Rau, William F., and C. Munch, Cincinnati, Ohio. Elevator	311,783	Feb. 3	418	113	30	497
Raub, Adam D. (See Mitchell, John E., assignor.)						
Raub, Joseph L., New London, Conn. Target-trap	329,211	Oct. 27	2301	506	33	439

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Randebangh, Perry F., Florence, Kans. Car-coupling	328,251	Oct. 13	961	250	33	183
Raugh, Oliver M., Newton, Iowa. Thill-coupling	316,483	Apr. 28	2029	545	31	393
Raw, Anthony W. T. (See Tuttle, Beeri W., assignor.)						
Raw, Peter J., et al. (See Tuttle, Beeri W., assignor.)						
Rawling, John. (See Shepard, Sylvander C., assignor.)						
Rawlings, Fannie C., St. Louis, Mo. Cabinet gasoline-stove	320,691	June 23	2326	631	31	1506
Rawlings, George H., St. Louis, Mo. Glove	325,968	Sept. 8	992	253	32	1206
Rawlins, Henry T., New Albany, Ind. Saw-table gage	320,454	Sept. 15	1641	429	32	1333
Raworth, John S., Manchester, county of Lancaster, assignor to Siemens Brothers & Company, (limited), 12 Queen Anne's Gate, Westminster, county of Middlesex, England. Electric meter	332,832	Dec. 22	2290	603	33	1428
Rawson, George W., assignor to D. McKee and T. J. McCarthy, Belleville, Ill. Tire-tightener	311,363	Jan. 27	1623	444	30	319
Rawson, Isaac, assignor of one-half to S. Thacher, Hornellsville, N. Y. Mower	315,071	Apr. 7	118	27	31	23
Ray, Edgar K., Franklin, Mass. Rubber overshoe	320,284	June 16	1803	479	31	1390
Ray, Edward, et al. (See Larkin, John C., assignor.)						
Ray, Frank B., Kansas City, Mo. Combined belt guide and reel for thrashing-machines, &c.	311,364	Jan. 27	1624	444	30	319
Ray, George W., Tarkio, Mo. Washing-machine	331,910	Dec. 8	988	256	33	1183
Ray, John L., et al. (See Pennington, Charles A., assignor.)						
Ray, William W., Springfield, Ky. Pad for medical purposes	313,238	Mar. 3	301	76	30	831
Raydt, Wilhelm. (See Schmitz, Albert, assignor.)						
Raymond, Albert. (See Raymond, George and A.)						
Raymond, Albert A. (See Williams, Gordon H., assignor.)						
Raymond, Cadwallader M., Boston, Mass. Roller-skate	316,660	Apr. 28	2300	604	31	436
Raymond, Cadwallader M., Boston, Mass. Roller-skate	318,291	May 19	1814	485	31	875
Raymond, Cadwallader M., assignor to S. R. Raymond, Boston, Mass. Roller-skate	313,622	Mar. 10	790	209	30	934
Raymond, Charles S., Oswego, N. Y. Milk-can	315,935	Apr. 14	1185	309	31	222
Raymond, Edwin W., Coupeville, Washington Ter. Clasp for ribbon-rolls	320,212	Oct. 27	2304	596	33	440
Raymond, Franklin L. (See Raymond, Silas H., assignor.)						
Raymond, Freeborn F., 2d, trustee. (See Henderson, Henry A., assignor.)						
Raymond, Freeborn F., 2d. (See Henderson and Raymond.)						
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nail plate	315,069	Apr. 7	116	27	31	23
Raymond, Freeborn F., 2d, Newton, Mass. Wire-heel-nail blank	315,070	Apr. 7	117	27	31	23
Raymond, Freeborn F., 2d, Newton, Mass. Nail holder and carrier	315,458	Apr. 7	657	169	31	117
Raymond, Freeborn F., 2d, Newton, Mass. Heel-attaching machine	316,177	Apr. 21	1659	435	31	315
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	316,661	Apr. 28	2301	604	31	436
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	316,686	Apr. 28	2550	668	31	482
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	316,627	Apr. 28	2554	669	31	483
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	316,698	Apr. 28	2557	670	31	483
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	317,199	May 5	372	93	31	501
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	317,672	May 12	909	259	31	713
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	317,851	May 12	1223	326	31	757
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	318,134	May 19	1616	432	31	837
Raymond, Freeborn F., 2d, Newton, Mass. Nail-distributor for heel-nailing machines	319,124	June 2	238	62	31	1091
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	321,530	July 7	172	46	32	34
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	321,756	July 7	469	124	32	87
Raymond, Freeborn F., 2d, Newton, Mass. Heel-attaching machine	322,126	July 14	992	256	32	188
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	322,560	July 21	1551	409	32	297
Raymond, Freeborn F., 2d, Newton, Mass. Applying top lifts to heel-blanks	322,561	July 21	1553	409	32	296
Raymond, Freeborn F., 2d, Newton, Mass. Sole-nailing machine	322,562	July 21	1554	410	32	298
Raymond, Freeborn F., 2d, Newton, Mass. Making heel-nail plates	325,271	Sept. 1	51	15	32	1026
Raymond, Freeborn F., 2d, Newton, Mass. Nail-making machine	325,272	Sept. 1	52	16	32	1026
Raymond, Freeborn F., 2d, Newton, Mass. Attaching soles of boots or shoes	326,150	Sept. 15	1238	317	32	1527
Raymond, Freeborn F., 2d, Newton, Mass. Heel-attaching machine	326,779	Sept. 22	2110	548	32	1424
Raymond, Freeborn F., 2d, Newton, Mass. Nailing-machine	326,780	Sept. 22	2112	548	32	1424
Raymond, Freeborn F., 2d, Newton, Mass. Nailing-machine	326,781	Sept. 22	2114	549	32	1424
Raymond, Freeborn F., 2d, Newton, Mass. Nail for boots or shoes	326,782	Sept. 22	2116	550	32	1425
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	329,079	Oct. 27	2115	648	33	405
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	329,951	Nov. 10	717	183	33	646
Raymond, Freeborn F., 2d, Newton, Mass. Sole or heel fastening	329,962	Nov. 10	720	183	33	646
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	331,441	Dec. 1	265	72	33	1046
Raymond, Freeborn F., 2d, Newton, Mass. Heel-nailing machine	332,001	Dec. 8	1114	290	33	1207
Raymond, George and A., Chicago, Ill. Machine for reducing ore	315,338	Apr. 7	484	122	31	89
Raymond, George H. (See Johnston and Raymond.)						
Raymond, James N. (See Helas, Charles E., assignor.)						
Raymond, Samuel R. (See Raymond, Cadwallader M., assignor.)						
Raymond, Silas H., Grand Rapids, Mich. Shoe-fastening	325,115	Aug. 25	2326	640	32	978
Raymond, Silas H., Grand Rapids, Mich. Barrel	331,911	Dec. 8	988	256	33	1183
Raymond, Silas H., Grand Rapids, Mich., assignor to F. L. Raymond, Cleveland, Ohio. Nut-lock	313,623	Mar. 10	798	209	30	935
Raymond, William F., Sandusky, Ohio. Horseshoe	317,200	May 5	376	94	31	592
Raynald, John, Philadelphia, Pa. Vault-cover	315,636	Apr. 14	1126	309	31	222
Rayner, George W. (See Derham, Samuel G., assignor.)						
Razee, Lloyd E. (See Freneyar, Thomas C., assignor.)						
Razee, Lloyd E., et al. (See Lane, Frederick, assignor.)						
Rea, Hugh, Village Green, Pa. Horse-cover	314,718	Mar. 31	2266	602	30	1248
Read, Daniel M. (See Hood, Gustave, assignor.)						
Read, James, assignor to Wilcox, Crittenden & Co., Middletown, Conn. Awning-frame ..	312,898	Feb. 24	1955	535	30	733
Read, John W., West Salem, Ohio. Fence	325,444	Sept. 1	309	75	32	1074
Read, Josiah M., Everett, Mass. Damper	310,224	Jan. 6	79	21	30	17
Read, Osmond D., Daviess County, Ky. Lap-ring	318,292	May 19	1816	486	31	875
Read & Sons, William. (See Hanscom, Orinton M., assignor.)						
Read, Walter G., Huey, Ill. Wind-wheel	331,543	Dec. 1	406	109	33	1071

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Reade, Henry W., Chicago, Ill. Filing-case	329,676	Nov. 3	336	86	33	568
Reading Iron Works. (See Wolfe, Edward W., assignor.)						
Ready, John, Littleton, N. H. Folding ladder	320,602	June 23	2387	631	31	1506
Reagles, Isaac V., assignor of two-thirds to I. Y. Fuller, Schenectady, and W. A. Fish, Utica, N. Y. Composition of matter for waterproofing	311,903	Jan. 27	1388		30	276
Ream, John A., Barnes, Kans. Medicine for diphtheria	326,569	Sept. 22	1813		32	1373
Reams, James W., Napa County, Cal. Harvester	310,316	Jan. 6	908	56	30	39
Rease, Frank P., Pittston, Pa. Extensible safety-cartridge	331,912	Dec. 8	989	256	33	1183
Reaume, Eli F., Amherstburg, Ontario, Canada. Cofferdam	326,783	Sept. 22	2117	550	32	1425
Rebholz, Timothy. (See Bailey and Rebholz.)						
Reckenzaun, Anthony, London, England, assignor to F. Reckenzaun, New York, N. Y. Dynamo-electric machine and electric motor	313,884	Mar. 17	1159	302	30	1009
Reckenzaun, Anthony, London, England, assignor to F. Reckenzaun, New York, N. Y. Electric car	320,092	June 16	1537	407	31	1344
Reckenzaun, Frederick. (See Reckenzaun, Anthony, assignor.)						
Recktenwalt, John, Buffalo, N. Y. Bottle-stopper	328,520	Oct. 20	1317	342	33	256
Recordon, Ernest F., Paris, France. Electro-magnet	312,511	Feb. 17	1455	399	30	634
Recordon, Ernest F., Geneva, Switzerland. Electric bell	319,318	June 2	469	126	31	1137
Rector, James A. (See Dunbar and Rector.)						
Reddell, William, Denver, Colo. Bed-sofa	314,606	Mar. 31	2118	565	30	1222
Reddell, William, Denver, Colo. Bed-lounge	323,424	Dec. 29	3120	{ 814 815 }	33	1581
Reddican, Frank J. (See Floyd, John J., assignor.)						
Redding, William F., Tangerine, Fla. Binding for boxes or crates	325,969	Sept. 8	993	253	32	1906
Redding, William F., Tangerine, Fla. Crate for fruit, &c.	330,620	Nov. 17	1591	426	33	825
Redfield, William W., Minneapolis, Minn. Draftsman's ink-mixer	313,239	Mar. 3	302	76	30	831
Redington, William H., Chicago, Ill. Mucilage-bottle	311,849	Feb. 3	499	136	30	442
Redington, William H., assignor of one-half to H. K. Freeman, Chicago, Ill. Bottle-cover	310,615	Jan. 13	524	161	30	118
Redington, William H., assignor of one-half to W. Rodiger, Chicago, Ill. Mucilage-bottle	325,970	Sept. 8	994	253	32	1206
Redman, Alonzo, Chicopee, Mass. Flooring-clamp	311,608	Feb. 3	109	56	30	386
Redman, Andrew J., La Crosse, Kans. Thrashing-machine	317,201	May 5	377	94	31	592
Redmond, Mark J., Naugatuck, Conn. Steam-trap	323,204	July 28	2452	651	32	470
Redmond, Michael R., G. P. McFarlane, and J. Mallon, Houghton, Mich. Trunk	311,919	Feb. 10	611	169	30	470
Redstone, Albert E., San Francisco, Cal. Quartz-mill	311,032	Jan. 20	1134	310	30	224
Reeb, Charles, Dwight, Ill. Knot-tyer for grain-binders	321,639	July 7	311	82	32	59
Reece, George L., assignor to F. D. Butterfield and H. S. Haskell, Derby Line, Vt. Screw-plate	320,693	June 23	2388	631	31	1507
Reece, Jasper N. (See Chaffee, Renben S., assignor.)						
Reece, Jasper N., et al. (See Newman, Nelson, assignor.)						
Reed, Benjamin K., and B. L. Burris, Wichita, Kans. Excavator	322,319	July 14	1217	320	32	232
Reed, Beverly S., Boston, Mass. Hoop-skirt	323,963	Aug. 11	753	209	32	673
Reed, Beverly S., Boston, Mass. Bustle	328,717	Oct. 20	1602	417	33	306
Reed, Beverly S., Boston, Mass. Bustle	331,821	Dec. 8	856	219	33	1152
Reed, Charles F. (See Anderson and Reed.)						
Reed, David A., Shelby, Mich. Whiffletree-coupling	333,335	Dec. 29	3005	787	33	1562
Reed, Frederick E., and J. R. Back, Worcester, Mass. Metal-turning lathe	332,833	Dec. 22	2291	604	33	1428
Reed, George M., Leadville, Colo. Mechanical movement	328,717	Jan. 27	1732	472	30	339
Reed, George P., Melrose, Mass. Watch-regulator	311,609	Feb. 3	900	56	30	386
Reed, George W., East Bloomfield, N. Y. Dumping-wagon	312,295	Feb. 17	1153	315	30	578
Reed, Herbert P. (See Proctor, Whitaker, and Reed.)						
Reed, Horatio G. H., Milwaukee, Wis. Discharge apparatus for coal and ore bins	311,365	Jan. 27	1625	{ 444 445 }	30	319
Reed, Horatio G. H., and J. Donohue, Milwaukee, Wis. Railway track-flanger and snow-plow	328,718	Oct. 20	1603	418	33	306
Reed, Hugh A., Pittsburg, and W. H. Maddock, Allegheny, Pa. Machine for turning crank-pins	322,320	July 14	1218	320	32	232
Reed, Hugh T., Richmond, Ind. Shelving	327,592	Oct. 6	190	28	33	23
Reed, J. Van D. (See Stowe, Benjamin L., assignor.)						
Reed, Jacob T., Reno, Nev. Wagon-jack	317,577	May 12	874	224	31	690
Reed, James H. (See Piper and Reed.)						
Reed, John C., Topeka, Kans. Car-coupling	338,253	Dec. 29	2897	758	33	1542
Reed, Joseph W., Kalamazoo, Mich. Steam-superheater	310,225	Jan. 6	81	21	30	17
Reed, Lafayette H., Troy, N. Y. Holdback	328,065	Oct. 13	729	190	33	138
Reed, Lemon M., Cleveland, Ohio. Barrel, keg, or similar article	322,641	July 21	1657	438	32	317
Reed, Lemon M., Cleveland, Ohio. Barrel-making machine	328,608	Oct. 20	1704	{ 443 444 }	33	396
Reed, Lewis C., Girard, Mich. Plow	324,415	Aug. 18	1383	377	32	796
Reed, P. G. (See Lee, Cris, assignor.)						
Reed, Porter C., Kingston, Mass. Nail-machine	313,108	Mar. 3	93	24	30	794
Reed, Richard, et al. (See Zink, Harry S., assignor.)						
Reed Toy Company, W. S. (See Reed and Walsh, assignors.)						
Reed, W. C., et al. (See Valentine, William P., assignor.)						
Reed, William A. (See Sleeper, George W., assignor.)						
Reed, William H., Servia, Ind. Farm-fence	321,531	July 7	175	47	32	35
Reed, William H., Chicago, Ill. Joint-ferrule for fishing-rods	322,750	July 21	1804	476	32	344
Reed, William H., Chicago, Ill. Lamp-chimney cleaner	330,619	Nov. 17	1590	425	33	894
Reed, William J., St. John's, Mich. Washing-machine	318,135	May 19	1618	433	31	838
Reed, William S., Leominster, Mass., and T. J. Walsh, London, England, assignors to W. S. Reed Toy Company, Leominster, Mass. Mechanical toy or game	320,501	June 23	2137	564	31	1460
Reeder, James W., Shelbyville, Ill. Boiler-tube	324,594	Aug. 18	1612	444	32	839
Reeder, William S., assignor to Kingsland & Ferguson Manufacturing Company, St. Louis, Mo. Clover-hulling attachment for thrashing-machines	330,736	Nov. 17	1747	470	33	855
Reedy, Henry J., Cincinnati, Ohio. Elevator	325,971	Sept. 8	995	{ 253 254 }	32	1306
Rees, B. F. (See Timms, James, assignor.)						
Rees, John W., Uniontown, assignor of two-thirds to W. L. Wallis and J. Carley, Mercer County, Pa. Composition for plastering	322,751	July 21	1805		32	344
Reese, Abram, Pittsburg, assignor of one-half to R. C. Totten, Allegheny City, Pa. Ingot-mold	318,206	May 19	1707	457	31	855
Reese, Abram, assignor to H. W. Reese, Pittsburg, and R. C. Totten, Allegheny City, Pa. Car-brake	321,757	July 7	473	125	32	88
Reese, David F., Evansville, Ind. Safety-valve and blow-off cock	314,719	Mar. 31	2266	602	30	1249
Reese, Evan C., Altoona, assignor to American Buttonhole, Overseaming and Sewing Machine Company, Philadelphia, Pa. Tuck-marker	317,418	May 5	664	168	31	643

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Reese, Harry W., <i>et al.</i> (See Reese, Abram, assignor.)						
Reese, Isaac, Nashville, Tenn. Rock-drill	322,642	July 21	1659	438	32	317
Reese, William H. M., Calhoun, Iowa. Wire-fastening device for metal fence-posts	318,655	May 26	2311	617	31	973
Reetz, William. (See Soulliere, Leon, assignor.)						
Reeve, Samuel, Little Marybone Street, county of Middlesex, England. Fire-place and heating-stove	330,516	Nov. 17	1468	393	33	800
Reeve, William G. (See Rockefeller, Samuel, assignor.)						
Reeve, William S., Edwardsport, Ind. Check-rowing attachment for corn-planters	316,662	Apr. 28	2302	605	31	437
Reeves, Albert S., assignor of one-half to D. Silvers and W. T. Corson, Millville, N. J. Car-coupling	326,590	Sept. 22	1813	476	32	1373
Reeves, Alfred B. and M. T., assignors to Reeves & Co. and J. I. Irwin, Columbus, Ind. Straw-carrier for stacking-machines	315,548	Apr. 14	804	212	31	150
Reeves, Alfred B., M. T., and J. N. D., assignors to Reeves & Co. and J. I. Irwin, Columbus, Ind. Straw-stacker	328,252	Oct. 13	963	251	33	183
Reeves, Biddle, <i>et al.</i> (See Hardwick, Joseph O., assignor.)						
Reeves & Co., <i>et al.</i> (See Reeves, Alfred B. and M. T., assignors.)						
Reeves & Co., <i>et al.</i> (See Reeves, Alfred B., M. T., and J. N. D., assignors.)						
Reeves, James N. D. (See Reeves, Alfred B., M. T., and J. N. D.)						
Reeves, Marshal T. (See Reeves, Alfred B. and M. T.)						
Reeves, Marshal T. (See Reeves, Alfred B., M. T., and J. N. D.)						
Reeves, Paul S., Phoenixville, Pa. Journal-bearing	314,476	Mar. 24	1949	519	30	1165
Reford, Joseph W. J., Jersey City, N. J., assignor to W. Watt, Brooklyn, N. Y. Revivifying filtering material	315,837	Apr. 14	1187	310	31	222
Regan, Addison, Glenmore, Ga. Vermifuge	314,477	Mar. 24	1950		30	1165
Regan, Daniel S., San Francisco, Cal. Electric igniter for gas-engines	320,285	June 16	1804	479	31	1391
Regan, Daniel S., assignor to himself and J. H. Eichler, San Francisco, Cal. Gas-engine	333,386	Dec. 29	3006	787	33	1562
Regan, John W., Boston, Mass. Harness	313,529	Mar. 10	674	176	30	911
Regan, William, assignor to Branford Lock Works, Branford, Conn. Attaching knobs to spindles	325,445	Sept. 1	311	75	32	1075
Register, Henry C., Philadelphia, Pa. Artificial tooth	319,746	June 9	1046	276	31	1250
Rehard, John A. (See Scheldt and Rehard.)						
Rehfsuss, George. (See Sweeney and Rehfsuss.)						
Rehfsuss, George, Philadelphia, Pa. Button-hole attachment for sewing-machines	310,911	Jan. 20	961	262	30	192
Rehfsuss, George, Philadelphia, Pa. Button-hole attachment for sewing-machines	314,055	Mar. 17	1322	361	30	1051
Rehfsuss, George, assignor to E. Morris, Philadelphia, Pa. Machine for shaping and curling hats	319,747	June 9	1047	277	31	1250
Rehkopf, Fredrick A., and C. A. Rogers, Chicago, Ill.; said Rogers assignor to said Rehkopf. Road-cart	327,019	Sept. 29	2438	637	32	1491
Rehmenkian, Rudolph W. O., Minneapolis Minn. Feeding coal to furnaces	332,337	Dec. 29	3008	787	33	1563
Reichard, Forrest, Easton, Pa. Lantern	310,319	June 2	470	127	31	1137
Reichardt, Ferdinand A., Elizabeth, N. J. Combined thermometer-case and magnifying-lens	325,186	Aug. 25	2421	665	32	995
Reichardt, Ferdinand A., Elizabeth, N. J. Syringe for hypodermic injections	330,621	Nov. 17	1599	426	33	825
Reiche, Charles E. and H. C., Hartford, Conn. Lowering coffins	323,531	Aug. 4	194	56	32	552
Reiche, Hermann C. (See Reiche, Charles E. and H. C.)						
Reichelm, Edward P. (See Machlet, George, assignor.)						
Reichenbach, Henry. (See Paré and Reichenbach.)						
Reichenker, William C., Denver, Colo., assignor of one-sixth to J. A. Baker, Washington, D. C. Guard for barbed-wire fences	319,506	June 9	798	195	31	1192
Reichert, Edward T., assignor of one-half to H. D. Welsh, Philadelphia, Pa. Secondary battery	315,339	Apr. 7	487	123	31	89
Reichert, Edward T., assignor of one-half to H. D. Welsh, Philadelphia, Pa. Secondary battery	315,340	Apr. 7	489	123	31	89
Reichert, Louis P. and A. Fuller, Buffalo, N. Y. Stop-cock box for water and gas pipes	326,674	Sept. 22	1953	508	32	1393
Reichman, William, New York, N. Y. Knitted garment	321,250	June 30	3106	826	31	1646
Reichmann, Joseph, Chicago, Ill. Injector	332,002	Dec. 8	1116	291	33	1207
Reid, Archibald W., Ballston Spa, N. Y. Hide-fleshing machine	331,085	Nov. 24	2194	594	33	946
Reid, Ida C., Oakland City, Ind. Ironing-table	326,455	Sept. 15	1643	430	32	1333
Reid, John. (See Carney, Francis J., assignor.)						
Reid, John, Yonkers, assignor to J. L. Mott Iron Works, New York, N. Y. Grease-trap for sinks	323,532	Aug. 4	195	57	32	559
Reid, William A., assignor to N. O. Nelson Manufacturing Company, St. Louis, Mo. Fire-extinguishing apparatus	312,999	Feb. 24	1955	535	30	733
Reiff, Jacob. (See Tytleman, William H., assignor.)						
Reiff, William H., Philadelphia, Pa. Burglar-alarm	315,838	Apr. 14	1190	310	31	223
Reiher, Frank A., Chicago, Ill. Set-screw	315,839	Apr. 14	1191	310	31	223
Reillé, Richard H., assignor to G. Hayes, New York, N. Y. Skylight	311,784	Feb. 3	419	114	30	427
Reilly, Hugh and M. J., Brooklyn, N. Y. Toy	331,004	Nov. 24	2094	567	33	927
Reilly, James, Brooklyn, N. Y. Hydrocarbon-burner	315,549	Apr. 14	805	212	31	150
Reilly, James E., <i>et al.</i> (See Wood, Richard G., assignor.)						
Reilly, Mary J. (See Reilly, Hugh and M. J.)						
Reilly, Patrick, <i>et al.</i> (See Wood, Richard G., assignor.)						
Reilly, Patrick, Brooklyn, N. Y. Stop-valve	324,480	Aug. 18	1469	403	32	811
Reilly, Patrick, Brooklyn, N. Y. Tubular steam-generator	329,677	Nov. 3	338	86	33	569
Reilly, Patrick, Brooklyn, N. Y. Tubular steam-generator	329,678	Nov. 3	340	86, 87	33	569
Reilly, Robert M., and F. King, Baltimore, Md. Combined bung and faucet for ale and beer barrels	322,853	July 21	1944	514	32	369
Rein, Adam, Hamilton, Ohio. Beefsteak-tenderer	311,327	Feb. 3	95	28	30	367
Rein, Adam, Hamilton, Ohio. Cigar-boxing press	319,748	June 9	1049	277	31	1250
Reinecke, Herman A. T., Thomaston, Conn. Stem winding and setting attachment for watches	310,865	Jan. 13	896	242	30	175
Reinecke, Herman A. T., assignor to S. Thomas Clock Company, Thomaston, Conn. Stem-winding watch	325,568	Sept. 1	472	118	32	1106
Reinecke, John P., Pittsburg, Pa. Gas-governor	328,338	Oct. 13	1075	279	33	204
Reinecke, John P., Pittsburg, Pa. Gas regulator and cut-off	311,527	Dec. 1	407	109	33	1071
Reinecker, Julius E., Chemnitz, Saxony, Germany. Screw-plate	318,136	May 19	1619	433	31	838
Reinhard, J. F. (See Burgess, Robert, assignor.)						
Reinhardt, William, Sr., and C. Kalanquinn, Eau Claire, Wis. Chisel-shoe	327,312	Sept. 29	2825	737	32	1559
Reinhardt, James H., and C. S. Ellis; said Ellis assignor to G. Schmalzried, Memphis, Tenn. Consecutive-numbering machine	318,203	May 26	2515	671	31	1008
Reinhardt, Julia, St. Louis, Mo. Waist-ling	325,697	Sept. 8	637	162	32	1140
Reinhardt, Wilhelm, assignor of one-half to E. Kaufmann, New York, N. Y. Article of confectionery	312,761	Feb. 24	1777	489	30	703

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Reinhold, Frank. (See Hubel and Reinhold.)						
Reinhold, Frank J. (See Hubel and Reinhold.)						
Reinhold, Frank J., Detroit, Mich. Knife-sharpener	331,545	Dec. 1	409	109	33	1072
Reinhold, Frank J., assignor to F. A. Hubel, Detroit, Mich. Capsule-machine	323,886	Aug. 4	647	183	32	645
Reinisch, Charles H., New York, N. Y. Machine for making and twisting chain-links	310,917	Jan. 6	200	57	32	46
Reinmann, Albert L., Pittsburg, Pa. Manufacture of incandescent lamps	323,205	July 28	2453	651	32	470
Reinmann, Albert L., Pittsburg, Pa. Valve-case for mercurial air-pumps	331,546	Dec. 1	410	110	32	1072
Reinmann, Albert L., and C. G. Ott, Newark, N. J. Mercurial air-pump	327,313	Sept. 29	2827	737	32	1359
Reinschmidt, Frank, assignor to J. W. Branch, St. Louis, Mo. Lantern	321,314	June 30	3183	849	31	1661
Reis, Alphonse, Antwerp, Belgium. Pump	317,015	May 5	114	29	31	543
Reis, Alphonse, Antwerp, Belgium. Steam-engine	331,442	Dec. 1	268	72, 73	33	1046
Reisch, Michael, Buffalo, N. Y. Ash-sifter	313,109	Mar. 3	94	24	30	794
Reisner, Friederich O., West Point, Iowa. Shelving	322,201	July 14	1077	279	32	205
Reiss, George T., assignor to Niles Tool Works, Hamilton, Ohio. Drilling-machine	322,969	July 28	2121	564	32	409
Reiss, Hans, Jersey City, N. J., assignor to Singer Manufacturing Company of New Jersey. Lathe	324,416	Aug. 18	1323	377	32	796
Reiss, Hans, Jersey City, N. J., assignor to Singer Manufacturing Company of New Jersey. Shuttle-slide for sewing-machines	319,849	June 9	1195	316	31	1275
Reissner, Christopher, et al. (See Hayes, Carl E., assignor.)						
Reissner, Christopher, et al. (See McArdle, Frank, assignor.)						
Reitenour, George W., et al. (See Langley, William W., assignor.)						
Reitenour, Henry, et al. (See Langley, William W., assignor.)						
Reizenstein, Emile. (See Goldsmith and Reizenstein.)						
Rembert, Edward J., et al. (See Galloway, James A., assignor.)						
Remington, Moses, Brownsville, Ind. Clothes-pounder	321,914	July 7	690	180	32	125
Remington & Sons, E. (See Cook, Roswell F., assignor.)						
Remington & Sons, E. (See Diss, Louis P., assignor.)						
Remington & Sons, E. (See Dodge, Philip T., assignor.)						
Remsburg, Albert J., Warfordsburg, Pa. Fracture apparatus	320,286	June 16	1805	479	31	1391
Remus, Carl T., assignor to J. Scherbel, Dresden, Saxony, Germany. Die for making paper boxes	329,080	Oct. 27	2118	548	33	406
Remus, Carl T., assignor of one-half to J. Scherbel, Dresden, Saxony, Germany. Corner-fastener for boxes	329,081	Oct. 27	2119	549	33	406
Remy, Noah T., Milton, Ind. Cord-holder for grain-binders	314,056	Mar. 17	1384	362	30	1051
Renchard, Francis J., Detroit, Mich. Lubricator	315,550	Apr. 14	806	213	31	150
Renchard, Francis J., Detroit, Mich. Lubricator	315,551	Apr. 14	808	213	31	150
Renders, Frank, Detroit, Mich. Lubricator	313,951	Mar. 17	1264	329	30	1028
Rendleman, Henry, Alto Pass, Ill. Traction-engine	325,768	Sept. 8	746	126	32	1160
Rendtorff, Hermann. (See Geier, John L., assignor.)						
Rengstorff, Henry, Mountain View, Cal. Excavator	321,051	June 30	2851	759	31	1600
Rensch, Henry, Quincy, Ill. Fire-escape	318,293	May 19	1816	486	31	875
Rensselaer Manufacturing Company. (See Hall, Henry, assignor.)						
Rensselaer Manufacturing Company. (See Hildreth, George, assignor.)						
Renton, John B. (See Rhodes, Charles M., assignor.)						
Rentz, Charles H. (See Smith, Thomas S., assignor.)						
Repanno Chemical Company et al. (See Penniman, Russell S., assignor.)						
Repanno Chemical Company et al. (See Penniman and Schrader, assignors.)						
Repass, William H., and J. P. Carrin, Pulaski Station, Va. Combined plow and harrow	319,621	June 9	899	235	31	1220
Repp, Ephraim B., and G. H. Brown, New Windsor, Md. Top for fruit-jars	318,039	May 19	1483	398	31	812
Requa, Elias B., Jersey City, N. J. Lamp-burner	318,030	May 19	1484	398	31	812
Requa, Elias B., Jersey City, N. J. Lamp-chimney	318,031	May 19	1486	398	31	812
Resch, John A., assignor to Eureka Hinge Company, Jersey City, N. J. Hinge	326,784	Sept. 22	9118	550	32	1425
Reuhl, Peter, Cincinnati, Ohio. Ornamental roller-die for moldings	322,339	Oct. 13	1076	280	33	204
Reuleaux, Josef, assignor of one-half to C. A. Hoyer, Pittsburg, Pa. Furnace	317,852	May 12	1237	327	31	758
Reuss, George, Wilmington, Del. Varnish	314,007	Mar. 31	2119	30	30	1223
Rentner, Carl, Hennef, Prussia, Germany. Automatic grain-weighing machine	323,533	Aug. 4	196	57	32	558
Reutlinger, Adolph, et al. (See Stitzel, Frederick, assignor.)						
Revere Rubber Company. (See Leigh and McDowell, assignors.)						
Rew, Richard A., Pomeroy, Wash. Ter. Hot-air stove	328,809	Oct. 20	1706	444	33	397
Rex, A. (See Davey, Petherick, assignor.)						
Rex, Benjamin L., Lovettsville, Va. Sash-fastener	311,366	Jan. 27	1626	445	30	319
Reynold, Martin, Paterson, N. J. Appliance for laying bricks	322,563	July 21	1562	412	32	299
Reynor, Francis, Lathrop, Cal. Seed-sower	331,547	Dec. 1	411	110	33	1072
Reynolds, Albert W. (See Dodge, Arthur C., assignor.)						
Reynolds, Andrew J., Chicago, Ill. Malt-stirring machine	325,012	Aug. 25	2199	602	32	953
Reynolds, Charles J., Boston, Mass., assignor to Reynolds Manufacturing Company, Portland, Me. Street-car	328,158	Dec. 29	2761	723	33	1517
Reynolds, Edmund B., et al. (See Kisinger, William S., assignor.)						
Reynolds, Edmund D. and O. B., Brockton, Mass. Harrow	311,367	Jan. 27	1627	445	30	319
Reynolds, Edmund D. and O. B., Brockton, Mass. Making harrow-teeth	316,569	Apr. 28	2186	575	31	415
Reynolds, Edmund D. and O. B., Brockton, Mass. Wheel-plow	321,052	June 30	2852	759	31	1600
Reynolds, Edwin, Milwaukee, Wis. Steam pumping-engine	318,504	May 26	2104	567	31	937
Reynolds, George A. (See Kingston, Edward S., assignor.) (Reisner.)						
Reynolds, George A., et al. (See Drifill, Frederick, assignor.)						
Reynolds, George A., Utica, N. Y. Last	318,137	May 19	1621	433	31	836
Reynolds, George A., Utica, N. Y. Combined gate and signal for railway-crossings	319,622	June 9	890	236	31	1221
Reynolds, George H., assignor of one-half to C. H. Delamater, G. H. Robinson, and W. De-lamater, New York, N. Y. Cut-off valve	310,318	Jan. 6	213	57, 58	30	40
Reynolds, George H., New York, N. Y., assignor of one-half to Crane Brothers Manufacturing Company, Chicago, Ill. Elevator-cage and safety attachment	313,240	Mar. 3	303	76	30	832
Reynolds, George H., New York, N. Y., assignor of one-half to Crane Brothers Manufacturing Company, Chicago, Ill. Elevator	313,241	Mar. 3	308	77	30	833
Reynolds, George H., New York, N. Y., assignor of one-half to Crane Brothers Manufacturing Company, Chicago, Ill. Valve for hydraulic elevators, &c.	314,720	Mar. 31	2267	602	30	1949
Reynolds, George H., New York, N. Y., assignor of one-half to Crane Brothers Manufacturing Company, Chicago, Ill. Safety appliance for elevators	314,721	Mar. 31	2272	603	30	1949
Reynolds, George H., New York, N. Y., assignor of one-half to Crane Brothers Manufacturing Company, Chicago, Ill. Controlling the operation of elevators	317,202	May 5	377	94	31	592
Reynolds, George H., and T. J. Rider, assignors of three-fourths to C. H. De Lamater, G. H. Robinson, and W. De Lamater, New York, N. Y. Direct-acting engine	318,656	May 26	2311	618	31	973
Reynolds, George H., New York, N. Y., assignor of one-half to Crane Bros. Manufacturing Company, Chicago, Ill. Valve for hydraulic elevators	323,367	July 28	2626	715	32	511

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Reynolds, George H., New York, N. Y., assignor of one-half to Crane Brothers Manufacturing Company, Chicago, Ill. Hydraulic piston.....	328,613	Oct. 20	1454	378 379	33	279
Reynolds, George H., New York, N. Y., assignor of one-half to Crane Brothers Manufacturing Company, Chicago, Ill. Hydraulic elevator.....	328,614	Oct. 20	1450	379 380	33	280
Reynolds, Henry, New Haven, Conn. Feeding device for screw-machines.....	311,785	Feb. 3	420	114	30	427
Reynolds, Henry S., Brooklyn, N. Y. Machine for wiring vessels.....	328,615	Oct. 20	1461	380	33	281
Reynolds, John H. (See Gerdon, Gregory, assignor.)						
Reynolds, John H., et al. (See Foster, Lucian M., assignor.)						
Reynolds, Joseph E. and W. S., Port Deposit, Md. Can-testing machine.....	330,924	Nov. 24	1991	538	33	907
Reynolds, Josiah. (See Williams and Reynolds.)						
Reynolds, Lewis G., Dayton, Ohio. Checking and registering baggage.....	314,215	Mar. 17	1587	420	30	1089
Reynolds Manufacturing Company. (See Reynolds, Charles J., assignor.)						
Reynolds, Myers, Jr., Milton, Del. Fruit-drier.....	331,548	Dec. 1	412	110	33	1073
Reynolds, Oliver B. (See Reynolds, Edmund D. and O. B.)						
Reynolds, Orrin A., Covington, Ky. Ruffling attachment for sewing-machines.....	310,465	Jan. 6	383	106 107	30	74
Reynolds, Samuel D. (See Barber and Reynolds.)						
Reynolds, Silas H. and G. E. Danforth, Lynn, Mass., assignors to said Reynolds, trustee. Piston-rod packing.....	324,884 329,082	Aug. 25 Oct. 27	2026 2120	555 549	32 33	922 406
Reynolds, Smith K., San José, Cal. Animal-trap.....						
Reynolds, Stephen H. (See Flood and Reynolds.)						
Reynolds, Thomas J., assignor of one-half to F. Nolan, Brooklyn, N. Y. Preventing incrustation in boilers.....	324,596	Aug. 18	1614	445	32	839
Reynolds, Warren W. (See Jones and Reynolds.)						
Reynolds, William L., et al. (See King, William H., assignor.)						
Reynolds, William W., Rutland, Vt. Folding platform-scale.....	316,178	Apr. 21	1601	435	31	315
Reynolds, Winfield S. (See Reynolds, Joseph E. and W. S.)						
Reynolds, Zachariah T., et al. (See Smith, John A., assignor.)						
Reznor, George, Mercer, Pa. Paper-folding machine.....	326,785	Sept. 22	2119	551 552	32	1425
Reznor, George, assignor to J. W. Bell and J. C. Breckenridge, Mercer, Pa. Eaves-trough hanger.....	313,769	Mar. 10	995	257	30	971
Rhees, Joseph L. (See Seymour, Frederick W., assignor.)						
Ribubottom, Homer E., et al. (See Sharp, Van Schaick, assignor.)						
Rhind, Frank, Brooklyn, N. Y. Lamp.....	312,762	Feb. 24	1777	490	30	703
Rhind, Frank, Brooklyn, N. Y. Argand burner.....	322,321	July 14	1921	320	32	232
Rhind, Frank, Brooklyn, assignor of one-half to C. S. Upton, Rochester, N. Y. Central-draft lamp.....	333,338	Dec. 29	3009	788	33	1563
Rhodes, Hal V. (See Rhodes, William H. and H. V.)						
Rhodes, James W., Fostoria, Ohio. Washing machine.....	327,224	Oct. 6	417	108	33	73
Rhodes, William H. and H. V., Columbus, Ohio. Roller-skate.....	333,254	Dec. 29	2898	758	33	1542
Rhodes, John P., Philadelphia, Pa. Railway time-indicator.....	326,059	Sept. 8	1119	285	32	1229
Rhodes, Lucien B. (See Simonds, Gustavus B., assignor.)						
Rhodes, Morton G. (See Rhodes, Solomon J. and M. G.)						
Rhodes, Solomon J., Metropolis, Ill. Car-coupling.....	318,138	May 19	1622	433	31	838
Rhodes, Solomon J., Metropolis, Ill. Flower-pot.....	320,588	June 23	2254	596	31	1482
Rhodes, Solomon J. and M. G., Metropolis, Ill. Invalid-supporter.....	312,763	Feb. 24	1778	490	30	703
Rhodes, Solomon J. and M. G., Metropolis, Ill. Boot and shoe cleaner.....	312,764	Feb. 24	1779	490	30	703
Rhode Island Metal Company. (See Thayer and Lowe, assignors.)						
Rhodes, Charles M. (See Fry, Charles H., Jr., assignor.)						
Rhodes, Charles M., Walden, N. Y. Clock-escapement.....	328,142	Oct. 13	822	915	33	156
Rhodes, Charles M., assignor to J. B. Renton, Lynn, Mass. Furniture-pad.....	329,213	Oct. 27	2304	596	33	440
Rhodes, Daniel H., Topeka, Kan. Combined railway track gage and level.....	331,329	Dec. 1	102	24	33	1017
Rhodes, Elvet B. (See Dixon and Rhodes.)						
Rhodes, Solomon C., Bradford, Pa. Mechanism for converting motion.....	330,622	Nov. 17	1593	496	33	825
Rhodes, William H. (See Curtis and Rhodes.)						
Rhyn, Henry, Cincinnati, Ohio. Machine for forming car-followers.....	320,502	June 23	2138	564	31	1460
Ribble, Harry M. and J. W. Summis, Dover, N. J. Baby-carriage.....	317,578	May 12	875	224	31	690
Ribon, Juan G. (See March, William J., assignor.)						
Rice, Arthur, New Albany, Ind., assignor, by mesne assignments, to Peerless Manufacturing Company, Louisville, Ky. Sand-molding machine.....	322,202	July 14	1079	280 281	32	205
Rice, Arthur, New Albany, Ind., assignor to Peerless Manufacturing Company, Louisville, Ky. Molding-machine for making molds in sand.....	322,203	July 14	1081	281	32	206
Rice, Arthur, New Albany, Ind., assignor to Peerless Manufacturing Company, Louisville, Ky. Sand-molding machine.....	332,234	Dec. 22	2292	604	33	1428
Rice, Barton & Fales Machine and Iron Company. (See Barton, Charles S., assignor.)						
Rice, Barton & Fales Machine and Iron Company. (See Dunn, George, assignor.)						
Rice, Benjamin F., Stillwater, Minn. Sweat-pad fastener.....	318,506	May 26	2106	568	31	937
Rice, Charles D., Corry, Pa. Roller-skate.....	326,151	Sept. 15	1239	317	32	1258
Rice, D. Burt C., N. Sword, and F. M. Wilder, Chicago, Ill. Folding steps.....	310,226	Jan. 6	82	22	80	18
Rice, Darius C., and J. Rossman, Ontario, Ind. Horse-collar pad.....	323,735	Aug. 4	461	130	32	609
Rice, David H., Lowell, Mass. Apparatus for cash-carriers.....	313,370	Mar. 3	466	121 122	30	863
Rice, David H., Lowell, Mass. Cash-carrying apparatus.....	314,263	Mar. 24	1655	439	30	1110
Rice, David H., Lowell, Mass. Cash-carrying apparatus.....	314,264	Mar. 24	1656	439 440	30	1110
Rice, David H., Lowell, Mass. Clutch for tricycles.....	316,061	Apr. 21	1497	391	31	284
Rice, David H., Lowell, Mass. Cash-carrying apparatus.....	318,032	May 19	1487	398 399	31	813
Rice, David H., Lowell, Mass. Cash-carrying apparatus.....	318,139	May 19	1623	434	31	838
Rice, David H., Lowell, Mass. Cash-carrier apparatus.....	318,294	May 19	1817	486 487 488	31	875
Rice, David H., Lowell, Mass. Cash-carrying apparatus.....	320,168	June 16	1636	435	31	1361
Rice, David H., Lowell, Mass. Cash-carrying apparatus.....	320,965	June 30	2738	728 729	31	1579
Rice, David H., Lowell, Mass. Ball and roller bearing for shafts.....	321,053	June 30	2855	759 760	31	1600
Rice, David H., Lowell, Mass. Ball and roller bearing for shafts.....	322,482	July 21	1454	382	32	280
Rice, David H., Lowell, Mass. Tricycle.....	326,244	Sept. 15	1376	356 357 358	32	1282
Rice, David H., Lowell, Mass. Tricycle.....	326,245	Sept. 15	1379	357 358	32	1283
Rice, David H., Lowell, Mass. Shaft-fastening device for tricycles.....	331,330	Dec. 1	103	24	33	1017

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Rice, David H., Lowell, assignor to C. G. Sargent's Sons, Graniteville, Mass. Wool-drier.....	316,060	Apr. 21	1496	391	31	284
Rice, David H., Lowell, Mass., assignor to St. Albans Manufacturing Company, St. Albans, Vt. Drier.....	316,484	Apr. 28	2083	545	31	395
Rice, David H., Lowell, Mass., assignor to Marlin Fire Arms Company, New Haven, Conn. Magazine-gun.....	316,485	Apr. 28	2084	545	31	395
Rice, David H., Lowell, assignor to J. Ferguson, Bridgewater, Mass. Car-wheel.....	330,423	Nov. 17	1347	359	33	777
Rice, Delos E., Detroit, Mich. Feed-water heater.....	323,076	July 28	2273	601	32	436
Rice, Dwight C., and A. L. Currey, Sioux Falls, Dak. Ter. Gas-extinguisher.....	320,694	June 23	2389	632	31	1507
Rice, E. Wilbur. (See Thomson and Rice.).....						
Rice, Edwin W., Jr., Lynn, Mass. Dynamo-electric machine.....	328,253	Oct. 13	964	251	33	183
Rice, G. Warren, Brooklyn, Ill. Cultivator.....	331,913	Dec. 8	990	256	33	1153
Rice, George H., Brooklyn, N. Y. Caster.....	324,487	Aug. 18	1471	403	32	811
Rice, George W., Manistique, Mich. Bevel.....	323,077	July 28	2274	601	32	436
Rice, Henry H., et al. (See Stebbins, Darius, assignor.).....						
Rice, Israel L. G., Boston, Mass. Barrel stave and hoop.....	330,153	Nov. 10	988	257	33	701
Rice, John S. (See Kidder, Moses W., assignor.).....						
Rice, John S., et al. (See Garland, Milton H., assignor.).....						
Rice, John W., Springfield, Mass. Car-brake.....	322,127	July 14	983	256	32	188
Rice, Judson, A. Steiger, San José, and I. L. Thurber, Santa Cruz, Cal. Working and using asphaltum.....	319,125	June 2	239		31	1091
Rice, Judson, A. Steiger, San José, and I. L. Thurber, Santa Cruz Cal. Asphaltic tiling and paving material.....	322,970	July 28	2125		32	410
Rice, Martin F. B., Washington, D. C. Machine for loading and reloading cartridges.....	331,159	Nov. 24	2303	624	33	965
Rice, Merritt H. (See Rice, W. Billings and M. H.).....						
Rice, Robert H., Fremont, Ohio. Skating appliance.....	332,945	Dec. 22	2453	{ 648 649 }	33	1458
Rice, W. Billings and M. H., assignors of one-half to W. D. Cameron, New York, N. Y. Swaging-machine.....	328,143	Oct. 13	824	215	33	156
Rice, W. Billings and M. H., assignors of one-half to W. D. Cameron, New York, N. Y. Machine for crushing ore, stone, &c.....	328,144	Oct. 13	826	{ 215 216 }	33	157
Rich, Abraham L., Allegheny, Pa. Bustle.....	330,424	Nov. 17	1349	359	33	778
Rich, Augustus E., Fall River, Mass. Sirup-pump for soda-water apparatus.....	327,593	Oct. 6	121	28	33	23
Rich, Augustus E., Fall River, Mass. Bottle-washing machine.....	332,437	Dec. 15	1741	455	33	1322
Rich, Charles, Nashville, Tenn. Tabular calculator for measurement of logs.....	331,332	Dec. 1	105	24	33	1017
Rich, Elton S. (See Gates, Henry W., assignor.).....						
Rich, George, assignor of one-half to J. Rich, Philadelphia, Pa. Lathe-center.....	322,322	July 14	1222	321	32	232
Rich, Henry M. (See Taft and Rich.).....						
Rich, Henry M., Athol, Mass. Chair-back.....	323,206	July 28	2454	651	32	471
Rich, John. (See Rich, George, assignor.).....						
Rich, Pembroke S. (See Nutting, Rich, and Garfield.).....						
Richard, William, assignor to J. D. Wilsey, Bloomville, Ohio. Pruning-shears.....	330,737	Nov. 17	1748	470	33	855
Richard, William, and O. M. Holcomb; said Richard assignor to J. D. Wilsey, Bloomville, Ohio. Shears.....	330,738	Nov. 17	1749	470	33	856
Richards, Calvin A. (See Barnes, Elizur, assignor.).....						
Richards, David L., St. John, New Brunswick, Canada. Car-coupling.....	311,528	Feb. 3	95	28	30	367
Richards, David L., St. John, New Brunswick, Canada. Car-coupling.....	312,057	Feb. 3	1634	450	30	678
Richards, Edmund A., Farmington, Me. Car-coupling.....	321,532	July 7	176	47	32	35
Richards, Edward W., et al. (See Vanden Bergh, Peter, assignor.).....						
Richards, Eugene R., New York, N. Y. Hook for hats or garments.....	318,657	May 26	2314	618	31	973
Richards, Francis H., Springfield, Mass. Button-fastener-setting machine.....	310,541	Jan. 6	487	136	30	83
Richards, Francis H., Springfield, Mass. Device for converting motion.....	833,161	Dec. 29	2764	724	33	1518
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener-setting machine.....	311,033	Jan. 20	1135	310	30	224
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener-setting machine.....	319,507	June 9	729	{ 195 196 }	31	1192
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener.....	319,508	June 9	733	197	31	1193
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Machine for feeding button-fasteners.....	320,503	June 23	2139	{ 564 565 }	31	1460
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener.....	322,007	July 14	821	215	32	158
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener.....	322,008	July 14	822	215	32	158
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Packing-case for button-fasteners.....	322,009	July 14	823	215	32	158
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener-setting instrument.....	322,483	July 21	1455	383	32	281
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Mechanism for feeding button-fasteners.....	322,971	July 28	2125	565	32	410
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Machine for making and setting button-fasteners.....	322,972	July 28	2128	{ 565 566 }	32	411
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Stock for making button-fasteners.....	326,152	Sept. 15	1241	317	32	1258
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener-feeding machine.....	326,153	Sept. 15	1241	318	32	1258
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener-feeding machine.....	326,246	Sept. 15	1382	{ 358 359 }	32	1283
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-setting machine.....	326,786	Sept. 22	2121	{ 552 553 }	32	1426
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-fastener rod.....	329,953	Nov. 10	721	183	33	646
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Button-setting machine.....	330,925	Nov. 24	1993	{ 538 539 }	33	908
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Making button-fasteners.....	331,822	Dec. 8	857	280	33	1158
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Apparatus for packing button-fasteners.....	331,823	Dec. 8	858	290	33	1158
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Packing-box for button-fasteners.....	333,159	Dec. 29	2762	728	33	1517
Richards, Francis H., Springfield, Mass., assignor to American Button Fastener Company, New Britain, Conn. Instrument for handling button-fasteners.....	333,160	Dec. 29	2763	724	33	1517
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Envelope folding machine.....	323,207	July 28	2454	652	32	471

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Richards, Francis H., Springfield, Mass., assignor to Pratt & Whitney Company, Hartford, Conn. Planer-table-driving mechanism	323,908	July 28	2456	652	32	471
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Blank-feeding mechanism	331,443	Dec. 1	270	73, 74	33	1046
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Blank-picker for envelope-machines	331,444	Dec. 1	272	74	33	1047
Richards, Francis H., Springfield, Mass., assignor of one-half to Pratt & Whitney Company, Hartford, Conn. Blank-picker for envelope-machines	331,445	Dec. 1	273	74	33	1047
Richards, Francis H., Springfield, Mass., assignor to J. D. Cox, Jr., and F. F. Prentiss, Cleveland, Ohio. Metal drill	320,966	June 30	2741	729	31	1579
Richards, Francis H., Springfield, Mass., assignor to J. D. Cox, Jr., and F. F. Prentiss, Cleveland, Ohio. Manufacture of metal drills	320,967	June 30	2743	729	31	1580
Richards, Francis H., assignor to J. D. Cox, Jr., and F. F. Prentiss, Cleveland, Ohio. Machine for making twist-drills	320,968	June 30	2744	730	31	1580
Richards, Francis H., assignor to J. D. Cox, Jr., and F. F. Prentiss, Cleveland, Ohio. Machine for making twist-drills	320,969	June 30	2747	730	31	1580
Richards, Frank H., Troy, N. Y. Domino	331,632	Dec. 1	615	152	33	1105
Richards, Frederick W., et al. (See Lyons, James B., assignor.)						
Richards, George, Manchester, county of Lancaster, England. Grinding-machine	332,003	Dec. 8	1118	291 292	33	1207
Richards, Henry J., Wilkes-Barre, Pa. Miner's lamp	320,287	June 16	1406	480	31	1391
Richards, J. Dudley, Boston, Mass. Picture-exhibiting easel	310,319	Jan. 6	215	58	30	41
Richards, Jackson, Philadelphia, Pa. Metallic packing	323,446	Aug. 4	82	24	32	538
Richards, John, San Francisco, Cal. Centrifugal pump	314,778	Mar. 31	2592	663	30	1293
Richards, John, San Francisco, Cal. Single-acting engine	328,521	Oct. 20	1318	343	33	256
Richards, John, San Francisco, Cal. Single-acting engine	328,522	Oct. 20	1319	343	33	256
Richards, John J., assignor of one-half to L. W. Marbes, Milwaukee, Wis. Water-purifier for boilers	328,254	Oct. 13	966	251	33	183
Richards, John T., et al. (See Burnham, Arthur M., assignor.)						
Richards, John T., assignor to Chicago Coffin Company, Chicago, Ill. Coffin	333,255	Dec. 29	2899	758	33	1543
Richards, Jonathan B., Pettigrew Mills, assignor to himself and J. R. Pettigrew, Fayetteville, Ark. Brush for four-bolting machines	316,179	Apr. 21	1663	436	31	315
Richards, Joseph O. B., St. Louis, Mo. Hot-blast stove	315,072	Apr. 7	119	28	31	23
Richards, Julius F. (See Richards, Marcus C. and J. F.)						
Richards, Marcus C., Owego, assignor of one-half to J. B. Chase and W. C. Budlong, Aurora, Ill. Oil-can and lamp filler	315,552	Apr. 14	810	213	31	151
Richards, Marcus C., Aurora, and J. F. Richards, Owego, Ill. Oil-can and pump combined	332,108	Dec. 8	1283	333	33	1236
Richards, Ransom. (See Wetherell and Jones, assignors.)						
Richards, Theron A. (See Clark and Richards.)						
Richards, Walter W., Philadelphia, Pa. Signal for locomotive head-lights	326,523	Sept. 15	1729	450	32	1349
Richards, William B. (See Thompson and Richards.)						
Richards, William G., Providence, R. I. Calipers for measuring	328,861	Oct. 20	1772	462	33	330
Richards, William P., Orange, N. J. Umbrella-rib-tip shield	321,855	July 7	692	160	32	113
Richardson, Allister M., assignor to himself and G. B. Edwards, Charleston, S. C. Automatic fan	325,802	Sept. 8	867	218	32	1182
Richardson, Arthur S., Reading, Mass. Wax-thread sewing-machine	314,478	Mar. 24	1950	519	30	1165
Richardson, Arthur S., Reading, Mass. Shoe	319,850	June 9	1196	316	31	1275
Richardson, Christopher. (See Brock, William E., assignor.)						
Richardson, Christopher. (See Dean, John A., assignor.)						
Richardson, Christopher, Newark, N. J. Trowel-handle	314,479	Mar. 24	1951	520	30	1165
Richardson, Christopher, Newark, N. J. Saw	315,663	Apr. 14	950	249	31	177
Richardson, Christopher, Newark, N. J. Saw-handle	320,169	June 16	1638	435	31	1362
Richardson, Dwight S., Brooklyn, N. Y. Grate-bar and grate	320,001	June 16	1417	372	31	1321
Richardson, Edward F. (See Hoyt, Jonathan J., assignor.)						
Richardson, Everett P., Lawrence, assignor to McKay & Thompson Consolidated Lasting Machine Association, Boston, Mass. Lasting-machine	311,850	Feb. 3	500	137	30	442
Richardson, Everett P., Lawrence, assignor to McKay & Thompson Consolidated Lasting Machine Association, Boston, Mass. Lasting-machine	311,851	Feb. 3	504	137	30	443
Richardson, George, Bridgeport, Conn. Device for tapping mains	327,314	Sept. 29	2822	738	32	1560
Richardson, George, Bridgeport, Conn. Drill	327,315	Sept. 29	2822	738	32	1560
Richardson, George W., Plano, Ill. Device for converting motion	311,610	Feb. 3	201	57	30	386
Richardson, George W., Medford, Mass. Safety-valve	325,273	Sept. 1	54	17	32	1028
Richardson, George W., Boston, Mass., assignor to Consolidated Safety Valve Company, Hartford, Conn. Multiplex safety-valve	311,147	Jan. 20	1303	359	30	255
Richardson, George W., assignor to J. H. Shepard, E. T. and W. A. Tawler, Chicago, Ill. Dumping wagon-bottom	321,533	July 7	177	47	32	35
Richardson, Henry B. (See Benham and Richardson.)						
Richardson, Henry D., assignor to Wallace & Sons, Ansonia, Conn. Lamp-extinguisher	317,203	May 5	378	94	31	592
Richardson, Ira M., Littleton, N. H. Thill-coupling bolt	313,242	Mar. 3	310	77	30	833
Richardson, James B. (See Moore, Samuel, assignor.)						
Richardson, James F., Toledo, Ohio. Cough remedy	332,946	Dec. 22	2455		33	1459
Richardson, Jeremiah J., New York, N. Y. Boiler for ranges	332,558	Dec. 15	1915	501	33	1352
Richardson, Jeremiah M., assignor of one-third to J. L. Heywood, Salt Lake City, Utah Ter. Rock-drilling machine	311,786	Feb. 3	422	114	30	427
Richardson, John, San Francisco, Cal. Machine for gumming and sharpening saws	316,570	Apr. 28	2186	573 576	31	415
Richardson, John, St. Mary's Ga. Combined stern-sheet-block traveler, oar-lock, and cleat for boats and other vessels	324,165	Aug. 11	1028	281	32	721
Richardson, John B., Pleasant Plains, Ill. Washing-machine	328,255	Oct. 13	967	251	33	184
Richardson, John F., Boonville, Ind. Shaft-support	319,851	June 9	1196	316	31	1275
Richardson, John L., Tuscola, Mich. Calculator	315,553	Apr. 14	811	214	31	151
Richardson, John T., Harrisburg, assignor to himself, and A. H. Ege, Mechanicsburg, Pa. Tie or connecting-bar for railway-switches	311,148	Jan. 20	1305	359 360	30	255
Richardson, John T., Harrisburg, assignor of one-half to A. H. Ege, Mechanicsburg, Pa. Railway-frog	319,024	June 2	112	31	31	1069
Richardson, John T., Harrisburg, assignor of one-half to A. H. Ege, Mechanicsburg, Pa. Railway-switch	322,067	July 14	905	224	32	173
Richardson, John T., Harrisburg, assignor of one-half to A. H. Ege, Mechanicsburg, Pa. Railway-frog	328,810	Oct. 20	1708	445	33	327
Richardson, John W., Park City, Utah Ter. Self-holding screw-driver	332,438	Dec. 15	1742	455	33	1322
Richardson, Julius C., Ilion, N. Y. Radial forging-machine	330,892	Nov. 10	1118	297 298	33	727
Richardson Manufacturing Company. (See Richardson, Samuel T., assignor.)						
Richardson, Meritt, Owosso, Mich. Tool for trimming strawberry-vines	326,787	Sept. 22	2124	553	32	1426

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Richardson, Nathan H., Brooklyn, N. Y. Device for closing doors	316,571	Apr. 28	2189	576	31	416
Richardson, Samuel O., Cantrell, S. C. Combined seed-planter and fertilizer-distributor	321,433	July 7	61	17, 18	32	14
Richardson, Samuel T., assignor to Richardson Manufacturing Company, Baltimore, Md.	311,368	Jan. 27	1628	446	30	330
Richardson, Samuel T., assignor to Richardson Manufacturing Company, Baltimore, Md.	311,360	Jan. 27	1630	446 447	30	330
Richardson, Samuel T., assignor to Richardson Manufacturing Company, Baltimore, Md.	311,370	Jan. 27	1632	447	30	330
Richardson, Samuel T., assignor to Richardson Manufacturing Company, Baltimore, Md.	311,371	Jan. 27	1634	447	30	321
Richardson, Samuel T., assignor to Richardson Manufacturing Company, Baltimore, Md.	311,372	Jan. 27	1635	448	30	321
Richardson, Samuel T., assignor to Richardson Manufacturing Company, Baltimore, Md.	311,373	Jan. 27	1636	448	30	321
Richardson, Samuel T., assignor to Richardson Manufacturing Company, Baltimore, Md.	311,374	Jan. 27	1637	448	30	321
Richardson, Samuel T., assignor to J. K. Pancoast, Baltimore, Md. Machine for crushing and amalgamating ores	320,396	June 16	1995	525	31	1426
Richardson, Seneca M., Worcester, Mass. Planer presser-roll	313,885	Mar. 17	1161	302	30	1009
Richardson, William, assignor to Milwaukee Dust Collector Manufacturing Company, Milwaukee, Wis. Dust-collector	327,825	Oct. 6	419	109	33	73
Richardson, William H., Mexia, Tex. Washing-machine	330,154	Nov. 10	969	258	33	701
Richardson, William S., Boston, Mass. Glove-fastening	325,698	Sept. 8	638	162	32	1140
Richardson, William S., Boston, Mass. Glove-fastening	325,699	Sept. 8	639	163	32	1140
Richer, Victor E., West Medford, assignor of one-half to R. B. C. Cement, Boston, Mass.	313,952	Mar. 17	1265	330	30	1023
Richert, Johanna. (See Kessel, John A., assignor.)						
Richey, Hiram. (See Williams and Richey.)						
Richey, James I., Olney, Ill. Automatic valve for drinking-troughs	319,025	June 2	114	31	31	1009
Richey, James N., assignor to Frick Company, Waynesborough, Pa. Portable saw-mill	331,653	Dec. 1	617	152	33	1106
Richey, Newton, Ashland, Ohio. Thill-coupling	330,817	June 23	2535	672	31	1335
Richey, Sarah E., Chicago, Ill. Piano-cover	328,154	Sept. 15	1243	318 319	32	1259
Richford, Edwin M., 44 Snow Hill, London, England. Self-inking pocket-stamp	317,853	May 12	1239	398	31	753
Richie, E. Lucien. (See Riddell, Thomas E., assignor.)						
Richman, Louis L., New York, N. Y. Wardrobe-bedstead	319,320	June 2	470	127	31	1137
Richmond City Mill Works. (See Walters, Charles F., assignor.)						
Richmond, Edmond, Leicester, county of Leicester, England. Car-coupling	318,140	May 19	1625	434	31	839
Richmond, Enos, Alloway, N. J. Boiler and steamer for domestic purposes	313,686	Mar. 10	874	228	30	950
Richmond, Enos, Port Royal, Pa. Domestic and agricultural boiler	331,446	Dec. 1	274	74, 75	33	1047
Richmond Fire Alarm Company. (See McCullough, Lewis H., assignor.)						
Richmond, Henry T., Malvern, Iowa, assignor of one-half to J. P. Munger. Anti-friction pad-tree	315,444	Apr. 7	634	164	31	113
Richmond, Leonard V., Sand Lake, N. Y. Doubling-spooler	310,732	Jan. 13	719	196	30	143
Richmond Manufacturing Company. (See McGill, James, assignor.)						
Richmond, Orrin S., Adair, Mich. Pulverizer	313,953	Mar. 17	1265	330	30	1029
Richmond Roller Skate and Caster Company <i>et al.</i> (See Phillips, Elwood C., assignor.)						
Richmond Sulky Plow Company. (See Hunt, Franklin B., assignor.)						
Richmond, William H., Providence, R. I. Finger-ring	331,086	Nov. 24	2195	594	33	946
Richmond, William T., New York, N. Y. Necktie-protector	318,804	May 26	2518	672	31	1008
Richter, August, Jr. (See Michelson, Sigismund M., assignor.) (Reissner.)						
Richter, Hugo E., assignor to W. Langbein, Dresden, Saxony, Germany. Stencil-plate-holder	312,384	Feb. 17	1266	349	30	600
Richter, John L., assignor to W. W. Montague, San Francisco, Cal. Tube-forming machine	327,721	Oct. 6	293	74	33	51
Richtmann, Charles, Newark, N. J., assignor, by mesne assignments, to R. R. Watson, New York, N. Y. Weighing-scale	312,583	Feb. 17	1545	421	30	658
Rickard, Clyde A., Ottawa, Kans. Steam-boiler feeder	313,054	Mar. 17	1266	330	30	1029
Ricker, John E., Boston, Mass. Harness-support	336,330	Sept. 15	1493	389	32	1305
Rickerby, Alfred M., Brooklyn, N. Y. Heater-frame for lamps and gas-burners	316,180	Apr. 21	1664	436	31	316
Ricketts, James J. (See Phillips and Ricketts.)						
Ricketts, James J., Pittsburg, Pa. Ventilator for gas-mains	320,002	June 16	1418	372	31	1322
Ricketts, James J., Pittsburg, Pa. Leak-detector for gas-mains	320,095	June 23	2390	632	31	1507
Ricketts, Pierre D., <i>et al.</i> (See Wittmack, Charles A., assignor.)						
Ricketts, William, Cincinnati, Ohio. Stop-cock	312,165	Feb. 10	969	964	30	535
Ricketts, William F. M., Colton, Wash. Ter. Harrow	319,321	June 2	471	127	31	1137
Riddell, Thomas E., assignor of one-half to E. L. Richie, Philadelphia, Pa. Combination tool	310,851	Jan. 13	881	228	30	172
Riddell, Joseph, and C. C. Trout, Sharon, Pa. Reamer	319,832	June 9	1197	317	31	1275
Riddle, George. (See Shaw, Noah T., assignor.)						
Rider, Alexander K., Walden, N. Y. Automatic sprinkler	326,155	Sept. 15	1244	319	32	1259
Rider, Charles E. (See Beisheim, Henry, assignor.)						
Rider, Charles E., Rochester, N. Y. Apparatus for uniting wood for floor-coverings, &c.	320,696	June 23	2391	632	31	1507
Rider, Charles E., Rochester, N. Y. Wood flooring	320,697	June 23	2392	633	31	1508
Rider, Charles E., Rochester, N. Y. Wood-flooring tile	320,698	June 23	2394	633	31	1508
Rider, John, assignor, by mesne assignments, to himself and A. Litchfield, Watertown, Mass. Agitating-spoon	327,100	Sept. 29	2565	609	32	1512
Rider, John P., Fishkill, N. Y. India-rubber ball	336,788	Sept. 22	2126	553	32	1437
Rider, Leman P., Pittsburg, Pa. Boat-hull	334,212	Dec. 8	1438	366	33	1261
Rider, Thomas J. (See Reynolds and Rider.)						
Rider, Thomas J., assignor of one-half to C. H. De Lamater, G. H. Robinson, and W. De Lamater, New York, N. Y. Duplex pumping-engine	324,488	Aug. 18	1472	403	32	811
Ridgway, Charles L., Boston, Mass., assignor to Ridgway Furnace and Stove Company, Nashua, N. H. Heating stove or furnace	318,295	May 19	1822	488	31	876
Ridgway Furnace and Stove Company. (See Ridgway, Charles L., assignor.)						
Ridgway, Joseph, Minneapolis, Minn. Street-railway switch	330,425	Nov. 17	1350	360	33	778
Ridgway Refrigerator Company. (See Taylor, William J., assignor.)						
Riedel, Herrmann, Neenah, Wis. Lubricant	311,529	Feb. 3	96		30	367
Rieger, Heinrich, Aalen, Württemberg, Germany. Lamp-wick cutter and cleaner	310,466	Jan. 6	385	107	30	75
Riessner, Christopher, New York, N. Y. Coal-oil stove	311,259	Jan. 27	1469	401 402	30	291
Riessner, Christopher, New York, N. Y. Spring-holding device	316,062	Apr. 21	1499	392	31	285
Riessner, Christopher, New York, N. Y. Lantern	316,466	Apr. 28	2068	546	31	326
Riester, George P., Salem, Ind. Wagon-brake lever	321,315	June 30	3183	849	31	1661
Riethmayer, Jacob F., Lansdale, Pa. Machine for removing ice and snow	310,181	Apr. 21	1664	436	31	316

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Riethmüller, Theodore H., Pittsburg, Pa. Composition for curing meat	329,774	Nov. 3	470		33	594
Rietschlin, Reinhard, Boston, Mass. Device for holding and mixing stove-polish	317,579	May 12	876	225	31	690
Rigby, Clark F., Bradford, Pa. Pounder washing-machine	328,811	Oct. 20	1709	445	33	327
Riggin, Cornelius S., and A. E. Gummerson, Newark, N. J. Railway-gate	331,333	Dec. 1	107	25	33	1017
Riggs, Henry G. (See Walker and Riggs.)						
Riggs, L. C., et al. (See Cadwell, William H., assignor.)						
Riglauder, Jacob W., New York, N. Y. Eyeglasses	323,736	Aug. 4	462	130	32	609
Riheldesfer, John G., et al. (See Hamre, Even J., assignor.)						
Riker, Carroll L., Brooklyn, N. Y. Soldering-iron heater	323,534	Aug. 4	197	58	32	559
Riker, Carroll L., assignor to C. Gullman, New York, N. Y. Heat-regulator	318,393	May 19	1962	528	31	901
Riker, Carroll L., Brooklyn, assignor to L. C. Riker, Esopus, N. Y. Grate	330,739	Nov. 17	1750	471	33	855
Riker, Lizzie C. (See Riker, Carroll L., assignor.)						
Riley, Charles P. (See Bales and Riley.)						
Riley, George M. D., Savannah, Ga. Locomotive head-light	331,654	Dec. 1	619	153	33	1106
Riley, George S., Rochester, N. Y. Locomotive head-light	321,316	June 30	3185	849	31	1662
Riley, James. (See Dick and Riley.)						
Riley, James, Glasgow, Scotland, assignor to J. Giers, Middlesbrough-on-Tees, England. Soaking-pit for steel ingots	333,027	Dec. 22	2576	677	33	1480
Riley, James H., and J. F. Walsh, West Troy, N. Y. Necktie-holder	313,530	Mar. 10	674	176	30	911
Riley, Jeremiah, New York, N. Y. Sash-weight holder	314,608	Mar. 31	2130	565	30	1223
Riley, John M., Newark, N. J. Hook	331,160	Nov. 24	2306	694	33	965
Riley, William H., Jr., and G. H. French, North Attleborough, Mass. Combination cuff-button and sleeve-pin	317,854	May 12	1940	398	31	758
Rinard, John, et al. (See Cogan, Robert B., assignor.)						
Rincklake, August, Brunswick, Germany. Lamp-collar	312,385	Feb. 17	1266	349	30	600
Rinderknecht, Charles J., assignor of one-half to A. J. Malone, Indianapolis, Ind. Automatic shovel mechanism	317,016	May 5	115	29	31	543
Rinehart, Martin L., Richmond, Ohio. Plow	310,227	Jan. 6	83	22	30	18
Riner, Russell M., Richmond, Ind. Clothes-pounder	313,955	Mar. 17	1267	330	30	1029
Ring, Denis J., assignor to J. H. Ring and C. Callahan, Lowell, Mass. Machine for making metallic shells for cartridges	311,034	Jan. 20	1139	311	30	225
Ring, Elkanah. (See Bryant and Ring.)						
Ring, Jacob, assignor, by mere assignments, to R. Ring and H. L. Powell, Cincinnati, Ohio. Snow-cutting and track-sweeping attachment for railway-cars	322,323	July 14	1222	321	32	232
Ring, John, St. Louis, Mo. Cooling attachment for gas and other machines	310,616	Jan. 13	555	161	30	113
Ring, John H., et al. (See Ring, Denis J., assignor.)						
Ring, John H., assignor to American Automatic Cartridge Company, Lowell, Mass. Machine for making cartridge-shells	311,035	Jan. 20	1140	311	30	225
Ring, Rosalie, et al. (See Ring, Jacob, assignor.)						
Ringemann, Frank, assignor of one-half to J. Ringemann, Cincinnati, Ohio. Sofa-bed	314,879	Mar. 31	2503	684	30	1294
Ringemann, Joseph. (See Ringemann, Frank, assignor.)						
Ringen, John, St. Louis, Mo. Portable oven	316,914	Apr. 28	2692	701	31	508
Ringen, John, St. Louis, Mo. Handle for buckets, &c	331,447	Dec. 1	275	75	33	1047
Riordan, Bartholomew, Washington, D. C. Combined roller and tile-ruler for marking concrete surfaces	324,166	Aug. 11	1029	281	32	721
Riordan, John, et al. (See Mason, Henry, assignor.)						
Ripberger, Alexander G. T., Dreden, Saxony, Germany. Preserving food	317,673	May 12	999		31	713
Ripley, Addie. (See Ripley, Edwin, assignor.)						
Ripley, Daniel C., Pittsburg, Pa. Manufacture of handled glassware	319,026	June 2	115	31	31	1069
Ripley, Daniel C., A. H. Heisey, and G. B. Swift, Pittsburg, Pa. Manufacture of ornamental glassware	331,824	Dec. 8	859	220	33	1159
Ripley, Edwin, assignor to A. Ripley, Sherman, N. Y. Cider-purifier	317,855	May 12	1241	328 339	31	756
Ripley, George H., Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Photographic camera	331,448	Dec. 1	276	75	33	1048
Ripley, Joseph S., Crugers, N. Y. Necktie-fastening	310,617	Jan. 13	585	161	30	118
Ripley, Roswell S. (See Hope and Ripley.)						
Ripson, John D., and R. Watson, Toronto, Ontario, Canada. Spring catch or fastening	326,331	Sept. 15	1494	390	32	1306
Rison, John L. (See Wilkinson, Algernon L., assignor.)						
Ritchey, William J., Pittsburg, Pa. Spring-lock for hatchways	310,320	Jan. 6	316	58	30	41
Ritchie, Alexander H. (See Ely, Edward P., assignor.)						
Ritchie, David A. (See Braddock and Ritchie.)						
Ritchie, David A., Boston, Mass. Tube-cutter	328,973	Oct. 27	1953	509	33	378
Ritchie, David A., Boston, Mass. Machine for making metal tubing	328,974	Oct. 27	1955	509	33	378
Ritchie, Edward S., Boston, Mass. Sonometer	322,010	July 14	824	216	32	158
Ritchie, John, Liverpool, county of Lancaster, England. Grain-cleaning and drying machine	316,063	Apr. 21	1500	399	31	285
Ritchie, Joshua R., assignor of one-half to W. Abbott, Philadelphia, Pa. Reversible seat	318,296	May 19	1223	468	31	877
Ritchie, Matthew L. (See Stephens and Ritchie.)						
Ritchie, Peter C., New York, N. Y. Treating buckram and other fibrous substances with starch	335,439	Dec. 15	1743		33	1322
Ritchie, Samuel, Wausau, Wis. Railway-switch	323,397	June 16	1098	525	31	1426
Riter, John L., Brownsville, Ind. Force-feed seeding-machine	310,928	Jan. 6	84	22	30	18
Riter, John L., Brownsville, Ind. Force-feed seeding-machine	315,168	Apr. 7	250	61	31	46
Riter, John L., Brownsville, Ind. Force-feed seeding-machine	317,904	May 5	390	95	31	592
Rittenhouse, Anna M., Philadelphia, Pa. Ink-well guard	311,678	Feb. 3	284	79	30	403
Ritter, Charles, Brooklyn, N. Y. Button and button-fastener	326,332	Sept. 15	1495	390	32	1306
Ritter & Conley. (See Seaver, John W., assignor.)						
Ritter, Eugen, Ehrenfeld, Germany. Screw-fastening for boxes or cases	321,054	June 30	2856	760	31	1601
Ritter, Eugen, and C. Kellner, Podgora, near Goerz, Austria-Hungary. Apparatus for making solutions of bisulphites	328,066	Oct. 13	731	191	33	138
Ritter, Eugen, and C. Kellner, Podgora, Austria-Hungary. Apparatus for the manufacture of cellulose or paper-pulp from woody fiber	329,214	Oct. 27	2305	597	33	440
Ritter, Eugen, and C. Kellner, Podgora, near Goerz, Austria-Hungary, assignors to W. A. Russell, trustee, Lawrence, Mass. Manufacturing cellulose or paper-pulp from wood fiber	329,215	Oct. 27	2306	597	33	441
Ritter, Eugen, and C. Kellner, Podgora, near Goerz, Austria-Hungary, assignors to W. A. Russell, trustee, Lawrence, Mass. Apparatus for the manufacture of cellulose or paper-pulp from wood fiber	328,812	Oct. 20	1710	445	33	328
Ritter, Eugen, and C. Kellner, Podgora, near Goerz, Austria-Hungary, assignors to W. A. Russell, trustee, Lawrence, Mass. Making solutions of bisulphites	329,216	Oct. 27	2306	597	33	441
Ritter, Eugen, and C. Kellner, Goerz, Austria-Hungary, assignors to W. A. Russell, trustee, Boston, Mass. Pulp-digester for paper-making	329,217	Oct. 27	2309	598	33	441
Ritter, Jerome L., Loysville, Pa. Vehicle-wheel	333,162	Dec. 29	2764	724	33	1518

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Ritter, John A., Jr., West Baden, Ind. Cutting apparatus for harvesters	315,341	Apr. 7	400	124	31	89
Ritter, Wilhelm, Altona, Prussia, Germany. Feed-water regulator	320,093	June 16	1539	407	31	1345
Rittmann, Christian A., Sandusky, Ohio. Step-ladder	329,218	Oct. 27	2310	596	33	442
Ritty, James, assignor to National Manufacturing Company, Dayton, Ohio. Cash-recorder.	318,506	May 26	2107	568	31	937
River and Rail Electric Light Company. (See Brady, Edwin L., assignor.)						
River and Rail Electric Light Company. (See Main, William, assignor.)						
River and Rail Electric Light Company. (See Man, Albon, assignor.)						
Rivers, José M., Buga, United States of Colombia. Dynamo-electric machine	320,170	June 16	1639	436	31	1362
Rivers, Thomas L., Montclair, N. J. Hame-tug	330,517	Nov. 17	1471	393	33	600
Rivers, Thomas L., Montclair, N. J. Trunk-catch	332,004	Dec. 8	1120	292	33	1208
Rivers, Thomas L., Montclair, assignor of one-third to J. Thomas, Newark, N. J. Hame-tug	319,126	June 2	240	62, 63	31	1092
Rivers, Thomas L., Montclair, assignor of one-third to J. Thomas, Newark, N. J. Hame-tug	325,013	Aug. 25	2201	603	32	953
Rivers, William H., assignor of one-third to E. Wright, Adams, Mass. Thread-guard for spinning-frames	324,730	Aug. 18	1807	499	32	675
Rivrole, Joseph, Paris, France. Cushion for billiard-tables	317,017	May 5	117	29	31	543
Rix, Benjamin F., Kalamazoo, Mich. Harrow	327,020	Sept. 29	2440	638	32	1491
Roach, Alfred H., Brooklyn, N. Y., and F. Kroedel, Hoboken, N. J. Temporary binder	317,856	May 12	1242	329	31	750
Roach, Freeman P., et al. (See Price, Joshua C., assignor.)						
Roach, John E., Batesville, Ohio. Safety stock-feeder	327,110	Sept. 29	2565	609	32	1512
Roach, Michael J., assignor of one-half to J. Clark and D. McKim, Lockport, N. Y. Steam-pipe joint for rotary paper-drying cylinders, &c	325,972	Sept. 8	996	254	32	1206
Roane, Edward G. (See Eaco and Roane.)						
Roberts, Joseph P. (See Hough, William W., assignor.)						
Robb, Charles S. (See Robb, William and C. S.)						
Robb, Frank F., Monongahela City, Pa. Nut-lock	320,333	Sept. 15	1496	390	32	1306
Robb, Herbert C., San José, Cal. Saw-mill head-block	313,531	Mar. 10	675	177	30	911
Robb, John, Akron, Ohio. Steam-generator	321,251	June 30	3107	826	31	1646
Robb, Walter G., Scott, Pa. Pipe-coupling	319,833	June 9	1198	317	31	1276
Robb, William, Conklingville, N. Y., and C. S. Robb, Boston, Mass. Fruit-paring machine	313,532	Mar. 10	678	177, 178	30	912
Robbins, Albert F., Orange, Mass. Mainspring-winder	325,973	Sept. 8	997	254	32	1207
Robbins, Alfred L., Chicago, Ill. Air-pump	313,243	Mar. 3	310	77	30	833
Robbins & Appleton. (See Schmalz, François, assignor.)						
Robbins, Elisha F., Cotuit, Mass. Pulley-block	328,340	Oct. 13	1077	260	33	205
Robbins, George W., Los Angeles, Cal. Sofa-bed	322,643	July 21	1660	439	32	317
Robbins, John S., and J. T. Foster, Racine, Wis. Steam-engine	329,954	Nov. 10	721	184	33	646
Robbins, Juan G. (See Davis and Robbins.)						
Robbins, Royal E., et al., trustees. (See Church, Duane H., assignor.) (Reissue.)						
Robbins, Royal E., et al., trustees. (See Hunter, George, assignor.)						
Robbins, William O., New York, N. Y. Propelling marine vessels	321,138	June 30	2968	726	31	1620
Roberson, James D., assignor of one-half to C. Paulus, Sedalia, Mo. Plow	326,501	Sept. 22	1814	476, 477	32	1373
Roberts, Albert, Marion, Iowa. Railway water-tank	322,068	July 14	906	224	32	173
Roberts, Almon B., Thorndike, and C. H. Forbes, Brooks, Me. Trimming attachment for sewing-machines	317,205	May 5	382	95	31	593
Roberts, Alfred R., Philadelphia, Pa. Safety device for railway-switches	318,297	May 19	1824	489	31	877
Roberts, Alfred R., assignor to Wharton Railroad Switch Company, Philadelphia, Pa. Safety device for railway-switches	318,394	May 19	1963	528	31	901
Roberts, Amos K., et al. (See Dorman, Henry E., assignor.)						
Roberts, Benjamin P., Boston, Mass. Registering apparatus for check-stamps	316,293	Apr. 21	1809	476	31	311
Roberts, Benjamin P., Boston, Mass. Bridle-bit	328,975	Oct. 27	1957	510	33	379
Roberts, Charles, Wellsville, Mo. Wagon	327,316	Sept. 29	2830	738	32	1560
Roberts, Charles H., Washington, Ind. Cut-off-valve gear	315,664	Apr. 14	952	249	31	178
Roberts, Charles H., Washington, Ind. Cap-plate for steam-engines	315,840	Apr. 14	1192	310	31	223
Roberts, Clarence V., Philadelphia, Pa. Fishing-line reel	328,341	Oct. 13	1078	260	33	205
Roberts, Cyrus. (See Roberts and Schafer, assignors.)						
Roberts, Cyrus. (See Schafer, Christian, assignor.)						
Roberts, David A., Creston, Ill. Portable wire-reel	327,195	Sept. 29	2682	607	32	1533
Roberts, David A., Creston, Ill. Portable wire-reel	327,196	Sept. 29	2682	607	32	1534
Roberts, Dudley, Waltham, Mass. Watch-key	320,699	June 23	2395	633	31	1507
Roberts Duplex Planing Machine Tool Company. (See Roberts, James A., assignor.)						
Roberts, Dwight, New York, N. Y. Rubber water-bag for medical treatment	329,955	Nov. 10	722	184	33	647
Roberts, Edward C., Broadford, Va. Furniture-drawer	316,294	Apr. 21	1812	476	31	341
Roberts, Edward D., Williamsburg, Iowa. Wire-stretcher	318,805	May 26	2518	672	31	1008
Roberts, Edward J., assignor of one-fourth to W. W. Culbertson, Ashland, Ky. Car-brake	316,829	Apr. 28	2559	670	31	424
Roberts, Edward P., et al. (See Thompson, Edward P., assignor.)						
Roberts, George A., Three Rivers, Mich. Concave for thrashing-machines	320,288	June 16	1807	480	31	1391
Roberts, George A., Three Rivers, Mich. Concave for thrashing-machines	330,700	June 23	2395	633	31	1508
Roberts, George A., Three Rivers, Mich. Thrashing-cylinder	326,334	Sept. 15	1497	390	32	1306
Roberts, George A., and C. Schafer, assignors to C. Roberts, Three Rivers, Mich. Thrashing-machine	317,674	May 12	1611	259	31	713
Roberts, George P., Norwalk, Ohio. Match-safe	319,322	June 2	472	128	31	1138
Roberts, George W., et al. (See Stover, Evan T., assignor.)						
Roberts, Henry P., Jamestown, N. Y., assignor of one-half to J. D. King, Brantford, Ontario, Canada. Fan attachment	325,863	Sept. 8	868	218	32	1182
Roberts, Henry W., Duncan City, Mich. Saw-guide	333,339	Dec. 29	3010	788	33	1563
Roberts, Isaiah L., Brooklyn, N. Y. Electric battery	314,722	Mar. 31	2273	603, 604	30	1250
Roberts, Isaiah L., Brooklyn, N. Y. Battery-fluid	317,206	May 5	383		31	593
Roberts, Isaiah L., assignor of one-half to H. L. Brevoort, Brooklyn, N. Y. Carbon-battery element	311,852	Feb. 3	508	138	30	444
Roberts, Isaiah L., assignor of one-half to H. L. Brevoort, Brooklyn, N. Y. Electric battery	311,853	Feb. 3	508		30	444
Roberts, J. B. (See Hough, Horace C., assignor.)						
Roberts, James, Philadelphia, Pa. Heddle supporting and operating mechanism for looms	318,658	May 26	2315	618, 619	31	573
Roberts, James, Brooklyn, N. Y. Variable feed-motion for planing-machines	331,449	Dec. 1	978	75	33	1048
Roberts, James A., assignor to Roberts Duplex Planing Machine Tool Company, Detroit, Mich. Cutter-head	311,679	Feb. 3	285	79	30	403
Roberts, James A., assignor to Roberts Duplex Planing Machine Tool Company, Detroit, Mich. Feed-roll	322,324	July 14	1923	321	32	233

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Roberts, John H. (See Babbott and Roberts.)						
Roberts, John H. (See Babbott, Roberts, and Banker.)						
Roberts, John H. (See Banker and Roberts.)						
Roberts, John M., and B. W. Case, Brownsville, Dak. Ter. Wagon-standard	324,958	Aug. 25	2124	580	32	941
Roberts, John W. (See Bemis, George W., Sr., and T., assignors.)						
Roberts, Joseph L. (See Giffard and Roberts.)						
Roberts, Lilly F., Kentucky Town, Tex. Pocket	320,171	June 16	1641	437	31	1362
Roberts, Marion M., Norria City, Ill. Alarm door-fastening	313,371	Mar. 3	469	122	30	863
Roberts, Morris, assignor, by mesne assignments, of one-half to Paine, Diehl & Co., Philadelphia, Pa. Window-screen	320,289	June 16	1808	480	31	1391
Roberts, Morris F., assignor of one-half to Shimer & Co., Philadelphia, Pa. Device for folding the edges of wire-cloth, sheet metal, &c.	317,857	May 12	1244	329	31	759
Roberts, Newell J., Battle Creek, Mich. Car-starter	314,299	Mar. 24	1712	455	30	1121
Roberts, Percival. (See Christie, James, assignor.)						
Roberts, R. H. (See Newth, Walter S., assignor.)						
Roberts, Webster, Cleveland, Ohio. Shaft hanger	326,789	Sept. 22	2127	553	32	1427
Roberts, William A. (See Blakemore and Roberts.)						
Roberts, William E., New York, N. Y. Carriage	321,386	June 30	3275	875	31	1679
Roberts, William P., Sunbury, Pa. Folding stand or table	318,298	May 19	1825	489	31	877
Robertshaw, Frederick W., Pittsburg, Pa. Hose-nozzle	330,740	Nov. 17	1751	471	33	855
Robertson, Commodore P., and J. R. Hicks, Kansas City, Mo. Vehicle hub and axle	325,769	Sept. 8	747	187	32	1160
Robertson, Henry B., Havensville, Kans. Combined hame-tug and trace-buckle	317,858	May 12	1245	329	31	759
Robertson, James, Brooklyn, N. Y. Gas-regulator	330,283	Nov. 10	1121	298	33	727
Robertson, James, and J. F. Tobin, Rochester, N. Y. Shoe-maker's iron last	310,723	Jan. 13	721	197	30	143
Robertson, James H., Brooklyn, N. Y. Spraking-telephone receiver	329,093	Oct. 27	2121	549	33	406
Robertson, James H., Brooklyn, N. Y. Telephone	329,084	Oct. 27	2122	549	33	407
Robertson, James H., Brooklyn, N. Y. Telephone	329,085	Oct. 27	2123	550	33	407
Robertson, John, Brooklyn, N. Y. Hydraulic lead-press	327,317	Sept. 29	2831	729	32	1560
Robertson, Richard S., and L. B. Fulton, Pittsburg, Pa. Gas-burner	329,776	Nov. 3	471	119	33	594
Robertson, Samuel S., et al. (See Boyle, Jay C., assignor.)						
Robertson, William H., Toronto, Ontario, Canada. Rail-scraper for street and other railways	324,731	Aug. 18	1807	499	32	875
Robertson, William H., Toronto, Ontario, Canada. Device for stopping leaks in water-pipes	327,899	Oct. 6	507	131	33	91
Robey, Jacob H., Hartford, Ind. Grave coffin-receptacle	324,167	Aug. 11	1030	281	32	721
Robin, Charles, Chester, Conn. Making twisted boring-tools	319,027	June 2	116	31	31	1069
Robins, Dewalt B., Bredonia, Pa. Stove-pipe thimble	312,018	Feb. 10	762	206	30	497
Robinson, Abraham, Berry, Ill. Churn	313,886	Mar. 17	1162	302	30	1010
Robinson, Albert S., assignor of one-half to A. Schell, Albany, N. Y. Baling-press	311,680	Feb. 3	286	79	30	403
Robinson, Alfred B., Lebanon, Mo. Hook	322,464	July 21	1457	383	32	281
Robinson, Charles E. (See Page, Robinson, and Stevens.)						
Robinson, Charles H., St. Paul, Minn. Feed-water heater	329,488	Nov. 3	84	23	33	521
Robinson, Charles J., assignor of one-half to R. P. Kingman, Battle Creek, Mich. Machine for making dowel-pins	331,733	Dec. 1	736	185	33	1127
Robinson, Clark, assignor of one-fourth to J. Kuntze, Hornellsville, N. Y. Detergent	319,323	June 2	474		31	1138
Robinson, David, Reynolds, Ill. Tobacco-plant splitter and cutter	311,373	Jan. 27	1638	448	30	322
Robinson, Don C. B., Madison, Ind. Belt-stretcher	328,862	Oct. 20	1773	462	33	339
Robinson, Edgar. (See Dean, Charles W., assignor.)						
Robinson, Edson C. (See Robinson, John S. and E. C.)						
Robinson, Edwin L. (See Freeman and Robinson.)						
Robinson, Francis W., Richmond, Ind. Traction-engine	311,530	Feb. 3	97	29	30	367
Robinson, Frank M. (See Lindley and Robinson.)						
Robinson, Fred. C., New York, N. Y. Shutter-fastener	330,741	Nov. 17	1752	471	33	855
Robinson, Fred. C., New York, N. Y. Combined shutter-fastener and shutter-bower	332,835	Dec. 22	2293	604	33	1428
Robinson, Frederic C. P., New York, assignor to T. J. Conroy, Brooklyn, N. Y. Artificial bait	326,886	Sept. 22	2263	591	32	1451
Robinson, George, Chillicothe, Mo. Horse hay-rake	332,440	Dec. 15	1744	456	33	1322
Robinson, George H. (See Rossi, Auguste J., assignor.)						
Robinson, George H., et al. (See Rathbun, John H., assignor.)						
Robinson, George H., et al. (See Reynolds, George H., assignor.)						
Robinson, George H., et al. (See Reynolds and Rider, assignors.)						
Robinson, George H., et al. (See Rider, Thomas J., assignor.)						
Robinson, George L., Waterbury, Conn. Button	317,018	May 5	118	30	31	544
Robinson, George S., Canastota, N. Y. Lock-nut	323,078	July 28	2275	602	32	437
Robinson, George W., Millview, Fla. Log-turner	315,073	Apr. 7	120	28	31	23
Robinson, Hale G., Sandusky, Ohio. Relief-valve for steam-engines	310,912	Jan. 20	962	262	30	192
Robinson, Henry, et al. (See Lord, James L., assignor.)						
Robinson, Henry D., Chester, Ind. Hay-ladder	311,531	Feb. 3	98	29	30	367
Robinson, Henry R., Golden, Colo. Flame-fastener	329,777	Nov. 3	473	119	33	594
Robinson, Henson, Springfield, Ill. Hot-air furnace	333,425	Dec. 29	3121	815	33	1581
Robinson, James A., Nashville, Tenn. Induction-coil	332,559	Dec. 15	1916	501	33	1352
Robinson, James B., New York, N. Y. Device for spiraling metal	316,295	Apr. 21	1813	477	31	341
Robinson, James B., and G. W. Holmes, Boston, Mass. Operating-chair	332,836	Dec. 22	2295	605	33	1429
Robinson, James M. B., New York, N. Y. Fire-screen hinge	323,342	Oct. 13	1079	280	33	205
Robinson, John and W. J., Philadelphia, Pa. Basin attachment for bath-tubs	315,342	Apr. 7	491	124	31	90
Robinson, John A., trustee. (See Miner, James G., assignor.)						
Robinson, John B., Wilford, Tenn. Cotton-chopper	327,594	Oct. 6	123	28	33	23
Robinson, John S. and E. C., Canandaigua, N. Y. Sulky-plow	316,572	Apr. 28	2190	576	31	416
Robinson, Martin W., Somerville, Mass., and H. W. Marriner, Belfast, Me. Washing-machine	316,064	Apr. 21	1501	393	31	225
Robinson, Matthew H., et al. (See Enos, John A., assignor.)						
Robinson, Murray L., Adrian, Mich. Stock-rack	313,373	Mar. 3	471	122	30	864
Robinson, Nannie E., Lamont, Mich. Cooking utensil	314,057	Mar. 17	1385	362	30	1051
Robinson, Robert, Brooklyn, N. Y. Cleaning bottles	322,644	July 21	1660	439	32	318
Robinson, Robert P. (See Brandon, George M., assignor.)						
Robinson, Squire, Southington, Conn. Wrench	320,172	June 16	1641	437	31	1363
Robinson, Stillman W., Columbus, Ohio. Machine for uniting the soles and uppers of boots or shoes	325,274	Sept. 1	55	17, 18	32	1026
Robinson, Stillman W., Columbus, Ohio. Machine for making screw-wire for pegs	325,275	Sept. 1	61	19	32	1027
Robinson, Stillman W., Columbus, assignor to Rote Automatic Brake Company, Mansfield, Ohio. Automatic car-brake	317,859	May 12	1946	330	31	759

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Robinson, Stillman W., Columbus, assignor to Rote Automatic Brake Company, Mansfield, Ohio. Automatic car-brake	317,860	May 12	1247	{ 330 331	{ 31	760
Robinson, Stillman W., and O. E. Lewis, Columbus, Ohio. Machine for uniting soles and uppers	319,127	June 2	242	63	31	1092
Robinson, Thomas C., Boston, assignor of one-half to E. B. Welch, Cambridge, Mass. Oscillating looper for sewing-machines	316,065	Apr. 21	1503	393	31	285
Robinson, Thomas C., Boston, assignor of one-half to E. B. Welch, Cambridge, Mass. Trimming mechanism for sewing-machines	317,419	May 5	665	109	31	643
Robinson, Thomas W., near Ashville, Ala. Harrow	312,166	Feb. 10	989	264	30	535
Robinson, William, et al. (See Aikman, Peter A., assignor.)						
Robinson, William, National Soldier's Home, Ohio. Bed-protector	319,623	June 9	691	236	31	1221
Robinson, William, Chicago, Ill. Sash-fastener	321,055	June 30	2877	760	31	1601
Robinson, William, Middlesbrough-on-Tees, England. Lubricator for journals	326,156	Sept. 15	1246	319	32	1259
Robinson, William, London, Ontario, Canada. Fire-escape	327,111	Sept. 29	2566	669	32	1512
Robinson, William, assignor of three-fourths to R. C. Humphreys, J. L. Lockhart, and W. H. Chandler, Bellefontaine, Ohio. Meat-tenderer	329,775	Nov. 3	470	119	33	594
Robinson, William D., Rathboneville, N. Y. Potato-digger	325,631	Sept. 1	542	179	32	1119
Robinson, William D., Kanona, N. Y. Clothes-bar	330,926	Nov. 24	1996	539	33	908
Robinson, William H., et al. (See Arthur, Joseph A., assignor.)						
Robinson, William J. (See Robinson, John and W. J.)						
Robinson, William L., Philadelphia, Pa. Safety device for cars	312,167	Feb. 10	970	265	30	525
Robinson, William W., Ripon, Wis. Apparatus for holding shingles for painting	320,569	June 23	2254	597	31	1462
Robison, Eliza S., Fremont, Ind. Farm-gate	313,372	Mar. 3	470	122	30	864
Robison, George M., Leadville, Colo. Carpet-stretcher	323,343	Oct. 13	1079	281	31	205
Robison, Joseph A., Everest, Kans. Thill coupling	317,207	May 5	353	66	31	593
Roblee, Charles, et al. (See Van Zandt, Jacob, assignor.)						
Rohy, James, Detroit, Mich. Fire-hose manipulator	316,830	Apr. 28	2561	671	31	424
Rohy, James, Detroit, Mich. Hose-manipulator	329,339	Oct. 27	2468	642	33	474
Roche, Charles M., Baltimore, Md. Window-awning	327,318	Sept. 29	2833	739	32	1560
Roche, Daniel E., Rochester, N. Y. Runner attachment for carriages	326,456	Sept. 15	1644	420	32	1333
Roche, James (See Donahue, Roche, Goodwin, and Cone)						
Roche, John W. (See Blair and Roche)						
Roche, Thomas C., Brooklyn, assignor to E. & H. T. Anthony & Co., New York, N. Y. Photographic paper and sensitive emulsion therefor	314,346	Mar. 24	1773		30	1132
Roche, Thomas C., Brooklyn, assignor to E. & H. T. Anthony & Co., New York, N. Y. Photographic sensitive paper	328,431	Oct. 13	1211	313	33	229
Rochester Machine Company. (See Towle, Abner S., assignor.) (Reissue.)						
Rochlitz, William, St. Louis, Mo. Washing-machine	319,028	June 2	116	32	31	1009
Rock, Adolphe, Parra, Estado de Chihuahua, Mexico. Refining oil, &c.	316,663	Apr. 28	2304		31	417
Rock, Daniel B., Fairfield, Pa. Egg-beater	332,837	Dec. 22	2297	605	33	1429
Rockafellow, Samuel, Muscatine, Iowa, assignor of one-half to W. G. Reeve, Peru, Ill. Sulky-plow	315,169	Apr. 7	252	61, 62	31	46
Rockafellow, Samuel, Muscatine, Iowa, assignor of one-half to W. H. Reeve, Peru, Ill. Car-starter	319,029	June 2	117	32	31	1009
Rockafellow, Samuel, Muscatine, Iowa, assignor of one-half to W. G. Reeve, Peru, Ill. Sulky-plow	324,728	Aug. 18	1886	{ 518 519	{ 32	690
Rockfellow, Albert G., Ashland, Oreg. Gate-latch	311,787	Feb. 3	424	115	30	468
Rockfellow, Albert G., Ashland, Oreg. Ball-and-socket hinge	327,319	Sept. 29	2833	739	32	1569
Rockwell, Francis S., et al. (See Rockwell, Warren C., assignor.)						
Rockwell, Ludlum B., et al. (See Rockwell, Warren C., assignor.)						
Rockwell, Warren C., Mount Carmel, assignor to himself, L. B. and F. S. Rockwell, Sunbury, Pa. Tin-roof cleat	331,655	Dec. 1	620	153	33	1107
Rockwell, William F., Meriden, Conn. Pocket-knife	317,208	May 5	324	76	31	523
Rockwood, Charles H., Marlborough, Conn. Scaffold-bracket	316,573	Apr. 28	2192	577	31	416
Rodebaugh, George W., Jackson, Mich. Saw-guide	319,624	June 9	892	236	31	1221
Rodenhausen, Leonhard, Philadelphia, Pa. Dumping-wagon	332,109	Dec. 8	1264	334	33	1236
Röder, Carl A., Solingen, Germany, assignor to H. Boker & Co., New York, N. Y. Button-hole cutter	328,813	Oct. 20	1712	445	33	324
Rodes, Robert, Jr., Nashville, Tenn. Bicycle-handle	325,014	Aug. 25	2202	603	32	954
Rodes, Tyree, Wales, Tenn. Tire-tightener	312,900	Feb. 24	1957	535	30	734
Rodger, William, St. Paul, Minn. Cigar-wrapper-cutting machine	319,424	June 2	598	{ 162 163	{ 31	1162
Rodgers, Alexander. (See Campbell, John, assignor.)						
Rodgers, Alexander, Muskegon, Mich. Edging-cutter	310,321	Jan. 6	217	59	30	41
Rodgers, Alexander, Muskegon, Mich. Feed-water heater	316,182	Apr. 21	1665	436	31	316
Rodgers, Alexander, Muskegon, Mich. Circular sawing machine	322,396	July 14	1324	345	32	271
Rodgers, Alexander, Muskegon, Mich. Reciprocating saw-mill	324,273	Aug. 11	1187	{ 322 323	{ 32	751
Rodgers, Alexander, Muskegon, Mich. Card-table	327,722	Oct. 6	294	75	33	51
Rodgers, Alexander, Muskegon, Mich. Lumber-trimmer	330,803	Nov. 17	1822	493	33	870
Rodgers, Kelita A., Corning, Ohio. Churn	322,854	July 21	1945	514	32	370
Rodgers & Sons, Joseph. (See Hatfield, William B., assignor.)						
Rodier, Louis C., Detroit, Mich. Plane	316,296	Apr. 21	1813	477	31	341
Rodier, Louis C., Detroit, Mich. Lathe	317,209	May 5	385	96, 97	31	523
Rodier, Louis C., Detroit, Mich. Combined radiator and heating-oven	323,209	July 28	2458	653	32	471
Rodiger, William. (See Redington, William H., assignor.)						
Rodman, Henry H., Wilkes-Barre, Pa. Shoe-fastening	313,533	Mar. 10	680	178	30	912
Rodman, Henry H., Wilkes-Barre, Pa. Shoe fastening	315,554	Apr. 14	816	214	31	151
Rodwell, George J. B., assignor of three-fourths to T. Snell, Toronto, Ontario, and R. H. Smith & Co., St. Catharines, Canada. Hand-stamp	330,804	Nov. 17	1830	493	33	871
Roe, Daniel H. (See Sparks, Lorenzo H., assignor.)						
Roe, Edward R., Dixon, Ill. Type-writing machine	325,446	Sept. 1	312	76	32	1675
Roeder, Frederick A. (See Springer and Roeder)						
Roeder, Frederick A., and A. Springer, Cincinnati, Ohio. Torsional-pivot balance	310,542	Jan. 6	491	136	30	94
Roelm, George H., Darton, Ohio. Elevator	313,887	Mar. 17	1163	303	30	1017
Roelofs, Anthony, Philadelphia, Pa. Car-door retainer	329,340	Oct. 27	2489	642	33	475
Roemhildt, Henry, Baltimore, Md. Barrel-bung	312,650	May 26	2316	619	31	574
Roesson, Mathias, Pittsburg, assignor of one-half to O. Bergmann, Allegheny City, Pa. Draw-plate punch	314,543	Mar. 24	2037	543	30	1180
Roeweke, Henry, assignor of one-half to M. J. Nascimento, Philadelphia, Pa. Filter	314,150	Mar. 17	1511	306	30	1074
Roeweke, Henry, assignor of one-half to M. J. Nascimento, Philadelphia, Pa. Alarm letter-box	331,735	Dec. 1	739	186	33	1120
Roeweke, Henry, assignor of one-half to M. J. Nascimento, Philadelphia, Pa. Filter	333,481	Dec. 29	3176	835	33	1364
Roettger, Edward C., Brunswick, Germany, assignor of two-thirds to H. Perschmann and C. Hammer. Continuous-acting centrifugal drying-machine	314,880	Mar. 31	2565	664	30	1298

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Rogers, Andrew W., Salem, Mass. Bottomless shoe-form	321,640	July 7	312	83	32	60
Rogers, Charles A. (See Rehkopf and Rogers.)						
Rogers, Charles E., Boston, Mass. Piano-action	326,335	Sept. 15	1497	391	32	1306
Rogers, Charles E., assignor to G. M. Guild, Boston, Mass. Tuning-pin for pianos	331,925	Dec. 8	860	221	33	1150
Rogers, Charles R., <i>et al.</i> (See Howe, Edward P., assignor.)						
Rogers, Columbus K., Salem, Mass. Automatic hatchway-guard for elevators	313,450	Mar. 3	577	148	30	884
Rogers, Columbus K., Salem, Mass. Automatic elevator-brake	313,451	Mar. 3	578	149	30	884
Rogers, Cyrus P., Frederica, Del., and L. Allen, New York, N. Y., assignors to Steam Heat Evaporator Company, Charlotte, Mich. Fruit-drier	325,360	Sept. 1	170	76	32	1047
Rogers, Dwight E. (See Beers, Elbert H., assignor.)						
Rogers, Enoch J., Memphis, Mich. Harrow	324,168	Aug. 11	1031	282	32	721
Rogers, Ethen, Cohoes, N. Y. Ice-pick	314,723	Mar. 31	2275	604	30	1250
Rogers, F. Willson, <i>et al.</i> (See Murphy, Daniel H., assignor.)						
Rogers Fence Company. (See Rogers, Timothy, assignor.)						
Rogers, Henry B., Marshall, Mo. Washing-machine	328,432	Oct. 13	1213	{ 313 314 }	33	230
Rogers, Henry H., New York, and C. Vose, Brooklyn, assignors to Pratt Manufacturing Company, New York, N. Y. Apparatus for refrigerating paraffine-oils and other liquids ..	316,400	Apr. 21	1952	515	31	366
Rogers, J. Webb. (See Rogers, James H. and J. W.)						
Rogers, James H. (See Bower, William W., assignor.)						
Rogers, James H. and J. W., Washington, D. C. Magneto-telephone	326,675	Sept. 22	1934	509	32	1393
Rogers, John A., assignor of one-half to J. M. Echols, Hartsell's, Ala. Sash-balance	332,363	Dec. 15	1642	430	33	1305
Rogers, John W. (See Myers and Rogers.)						
Rogers, Lebbeus H., New York, N. Y. Secondary battery and transporting the same	310,724	Jan. 13	723	{ 197 198 }	30	143
Rogers, Morris. (See Ellsworth and Rogers.)						
Rogers, Mort M. (See Neal, James W., assignor.)						
Rogers, Timothy, assignor, by meane assignments, to Rogers Fence Company, Springfield, Ohio. Harrow	313,534	Mar. 10	681	{ 178 179 }	30	913
Rogers, Timothy, assignor, by meane assignments, to Rogers Fence Company, Springfield, Ohio. Lawn-mower	328,145	Oct. 13	828	216	33	157
Rogers, William A., Cambridge, Mass. Electro-magnetic clutch for step-by-step movements	310,913	Jan. 20	964	282	30	193
Rogers, William A., Boston, Mass., and G. M. Bond, Hartford, Conn. Comparator	332,110	Dec. 8	1266	334	33	1236
Rogers, William B., Philadelphia, Pa. Underground conduit for electrical conductors	323,964	Aug. 11	754	210	32	672
Rogers, William C., New York, N. Y. Advertising medium	323,210	July 28	2458	653	32	471
Rogers, William H., Williamson, N. Y. Drier	327,900	Oct. 6	507	132	33	91
Rogers, William J., Terrell, Tex. Churn	317,019	May 5	118	30	31	544
Rogers, Winfield S., assignor to P. G. March, Cincinnati, Ohio. Roller-skate	327,411	Sept. 20	2963	773	32	1582
Roggen, Nathan, and T. Eisenstein, New York, N. Y. Shirt	323,397	July 14	1326	345	32	252
Rob, John G., Shanesville, Ohio. Device for inserting fellicies	314,197	Mar. 17	1570	415	30	1034
Rohan, Philip, St. Louis, Mo. Feed-water heater	316,297	Apr. 21	1815	477	31	342
Rohme, James H., assignor to himself, J. Orr, Newburg, C. M. Sweet, New York, and C. E. Sweet, Wappinger's Falls, N. Y. Mechanism for controlling steam-driven sewing-machines	326,457	Sept. 15	1645	430	32	1334
Rohning, Charles, Lincoln, Mo. Medicine for hog-cholera	327,412	Sept. 20	2964		32	1582
Rohrbach, George, New Haven, Conn. Knockdown table	327,413	Sept. 20	2964	773	32	1582
Rohrbach, Henry J., Chicago, Ill. Safety attachment for cable cars	316,831	Apr. 28	2563	671	31	465
Rohrer, Jacob B., <i>et al.</i> (See Wallick, Marion, assignor.)						
Rohrer, Jacob N., Chewaville, Md. Draft-spring	311,260	Jan. 27	1471	402	30	291
Rohrer, John S., Lancaster, Pa. Wind-wheel	326,157	Sept. 15	1246	319	32	1250
Rohrer, Michael W., Jr., and D. H. Boyer, Diller, Nebr., assignors of one-third to W. W. Rohrer, Creston, Ohio. Tug	330,426	Nov. 17	1351	360	33	778
Rohrer, William W. (See Rohrer and Boyer, assignors.)						
Rohsenberger, John, <i>et al.</i> (See Powell, Richard J., assignor.)						
Rohwer, Henry. (See Bochnacke and Rohwer.)						
Roland, Robert G., Beech Grove, Ky. Door-lock	316,574	Apr. 28	2192	577	31	416
Roll, George P. (See Haller, Henry, assignor.)						
Roll, Leonard, Wilkes-Barre, Pa. Device for controlling runaway horses	310,322	Jan. 6	219	60	30	42
Rolland, John R., <i>et al.</i> (See Monger, Francis M., assignor.)						
Rollason, Joseph G. (See Cadbury and Rollason.)						
Rolls, Theodore. (See Breslau, Edward, assignor.)						
Roller, Louis A., <i>et al.</i> (See Herrick, Lewis W., assignor.)						
Rollin, Albert H., Coldwater, Mich. Ratchet-wrench	324,169	Aug. 11	1032	282	32	722
Rollins, Alpheus. (See Wilsey and Rollins.)						
Rollins, Charles G., Minneapolis, Minn. Dust-catcher	311,036	Jan. 20	1142	{ 311 312 }	30	226
Rollins, Daniel M., <i>et al.</i> (See Conlans, Joseph A., assignor.)						
Rollins, Edward K., assignor of one-half to A. E. Hunt, Scranton, Pa. Cutter for cutting glass tubes	310,914	Jan. 20	966	263	30	193
Rollins, George L., Bridgewater, Mass. Cotton-gin	328,067	Oct. 13	733	191	33	139
Romana, Abijah L., Sinclairville, N. Y. Thill-coupling	325,864	Sept. 8	869	219	32	1182
Romanze, Otto, Tonley Hill, Wandsworth, county of Surrey, assignor to Mason, Thornton & Romanze, No. 9 North Street, Wandsworth, London, England. Electric-arc lamp	330,351	Nov. 10	1240	331	33	750
Rombach, Charles H. (See Goldstein and Rombach.)						
Romeau, Auguste. (See Arndt, Daniel, assignor.)						
Romer, Charles W. A., <i>et al.</i> (See Brettell, Edward W., assignor.)						
Römer, William, Newark, N. J. Bag or satchel handle	314,724	Mar. 31	2275	604	30	1250
Romigh, Daniel. (See Romigh, William S. and D.)						
Romigh, William S. and D., Wichita, Kans. Fence-making machine	321,534	July 7	179	48	32	35
Roncaglia, Angustino, Denver, Colo. Device for transferring loads down mountains	330,805	Nov. 17	1831	494	33	871
Ronner, John H. J., New York, N. Y. Torch	314,725	Mar. 31	2276	604	30	1250
Rood, Henry W. (See Weber, Adolph, assignor.)						
Rook, John H., assignor of one-half to B. F. Burk, Jonesborough, Ind. Pump	331,734	Dec. 1	738	185	33	1128
Roome, Henry C., Jersey City, N. J. Electric alarm and signal	316,183	Apr. 21	1667	437	31	316
Rooney, Mary A., De Smet, Dak. Ter. Combined trunk and bed	327,595	Oct. 6	123	29	33	23
Roop, Jacob W., Harrisburg, Pa. Machine for making barbed-fence strips	330,852	Nov. 17	1892	512	33	881
Roop, James F. (See Lingle and Roop.)						
Roorbach, William L., Philadelphia, Pa. Bottle-stopper	320,701	June 23	2396	634	31	1508
Roorbach, William L., assignor of one-half to S. Twitchell & Brother, Philadelphia, Pa. Bottle-forming tool	316,832	Apr. 28	2564	671	31	485
Roorbach, William L., assignor of one-half to S. Twitchell & Brother, Philadelphia, Pa. Bottle-stopper	323,737	Aug. 4	463	131	32	610
Roosevelt, Hilborne L., New York, N. Y. Composition stop-action for organs	323,211	July 28	2459	653	32	472

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Roosevelt, Hilborne L., New York, N. Y., and C. S. Haskell, Philadelphia, Pa.; said Haskell assignor to said Roosevelt. Pneumatic action for organs.	323,829	Aug. 4	571	162	32	631
Root, Charles W., Southington, assignor to himself and M. N. Woodruff, Plantsville, Conn. Dio for forming carriage-bolts.	327,454	Sept. 20	3012	786	32	1590
Root, Dexter A., Bay City, Mich. Roller-skate.	332,111	Dec. 8	1291	335	33	1237
Root, Francis H., Hyde Park, Ill. Device for lighting gas by electricity.	325,569	Sept. 1	473	118	32	1106
Root, Frank D., Cortland, Ill. Car-coupling.	311,037	Jan. 20	1144	312	30	926
Root, Franklin, Hartford, Conn. Curtain-fixture.	324,959	Aug. 25	2125	581	32	941
Root, G. Wells. (See Conly, James, assignor.)						
Root, Henry, San Francisco, Cal. Cable railway.	315,992	Apr. 14	1408	365	31	261
Root, Henry, San Francisco, Cal. Cable railway.	319,929	June 9	1307	344 345 345	31	1285
Root, Henry, San Francisco, Cal. Cable railway. (Reissue).	10,621	July 7	723	189 190	32	131
Root, John B., Port Chester, N. Y. Pipe-coupling.	315,074	Apr. 7	121	28	31	24
Root, John B., Port Chester, N. Y. Pipe-connection.	315,075	Apr. 7	122	28	31	24
Root, John B., Port Chester, N. Y. Exercising-machine.	326,247	Sept. 15	1324	359	32	1284
Root, Judson E., Westfield, N. Y. Circuit-closer.	320,504	June 23	2141	563	31	1460
Root, Lawrence O., Minneapolis, Minn. Elevated railway.	315,555	Apr. 14	817	214 215	31	152
Root, William J., and W. Childs, Brooklyn, assignor to Radix Manufacturing Company, New York, N. Y. Center-board.	319,930	June 9	1309	345	31	1285
Roots, Francis M., Connersville, Ind. Rotary pump.	325,276	Sept. 1	63	19	32	1027
Roots, Francis T., Connersville, Ind. Clothes-pounder.	332,338	Dec. 22	2226	606	33	1429
Roper, Beverly, Atlanta, Ga. Velocipede.	332,005	Dec. 8	1121	292 293	33	1208
Roper, Charles F., assignor to G. Draper & Sons, Hopedale, Mass. Machine for making spinning-rings.	333,256	Dec. 20	2900	758 759	33	1543
Roper, Sylvester H., Boston, Mass. Magazine fire-arm.	316,401	Apr. 21	1954	515	31	366
Rorquet & Cohin. (See Cohin, Stanislas F., assignor.)						
Roraback, John, assignor of one-half to O. Brown, Washington, Conn. Bob-sleigh.	312,386	Feb. 17	1267	350	30	600
Roraback, John Z. (See Edgar, Joseph M., assignor.)						
Rorick, John C., Wauseon, Ohio. Embroidering implement.	313,770	Mar. 10	996	257	30	971
Rosback, Henry A. (See Heilbronner and Rosback.)						
Rösch, John, New York, N. Y. Device for attaching curtains to rollers.	320,290	June 16	1809	480	31	1391
Roscoe, Allison M., Du Bois, Pa. Door-sill.	328,814	Oct. 20	1712	446	33	328
Rose, Alexander, Lawrence, Kans. Fire-escape ladder.	331,736	Dec. 1	740	186	33	1129
Rose, Franklin A., Riverside, Iowa. Check-row corn-planter.	316,833	Apr. 28	2565	671	31	465
Rose, Frederick F., Brooklyn, assignor to Rose Locomotive Improvement Company, New York, N. Y. Hydraulic valve-motion for locomotives.	330,927	Nov. 24	1997	539 540	33	908
Rose, George P., Fenton, Mich. Whip-socket.	327,021	Sept. 29	2441	638	32	1491
Rose, George P., Fentonville, Mich. Nut-lock.	332,288	Dec. 15	1533	401	33	1286
Rose, Henry, Prairie du Sac, Wis. Combined wash-stand and dressing-case.	315,343	Apr. 7	492	124	31	90
Rose, Henry, Fayette, Mo. Implement for detaching button-fasteners from shoes.	332,560	Dec. 15	1916	501	33	1352
Rose, Henry M., Waterman, Ill. Disk-harrow.	318,395	May 19	1963	529	31	902
Rose, John H., Norwalk, Conn. Fare register and recorder.	315,963	Apr. 14	1373	355	31	254
Rose, John J., Elmwood, Ill. Whip and rein holder.	312,901	Feb. 24	1958	535	30	734
Rose, Levi P. (See Salisbury, Silas C., assignor.)						
Rose Locomotive Improvement Company. (See Rose, Frederick F., assignor.)						
Rose, Thomas. (See Condict and Rose.)						
Rose, Walter E., Prophetstown, Ill. Shoe.	310,725	Jan. 13	727	198	30	144
Rosebanch, John C., assignor to Fremont Cultivator Company, Fremont, Ohio. Cultivator.	332,165	Dec. 8	1368	354	33	1250
Rosebrook, Frank, Elmira, N. Y. Chicken-brooder.	317,210	May 5	387	97	31	594
Rosebrook, Frank, Elmira, N. Y. Removable egg-tray for incubators.	324,274	Aug. 11	1188	323	32	751
Rosebrooks, John M., assignor to W. A. Wood Mowing and Reaping Machine Company, Hoosick Falls, N. Y. Vehicle-wheel.	328,068	Oct. 13	734	191	33	139
Rosebrough, Aber M. and T. R., Toronto, Ontario, Canada. Combined telegraphic and telephonic circuit.	329,956	Nov. 10	723	185	33	647
Rosebrough, Thomas R. (See Rosebrough, Aber M. and T. R.)						
Rosenbaum, Solomon N., New York, N. Y. Card-holder.	323,508	Aug. 4	285	82	32	574
Rosenberg & Co., I. (See Gilbert, Thomas S., assignor.)						
Rosenberg, Seymour H., New Haven, Conn. Machine for shaping corsets.	329,414	Oct. 27	2603	671	33	495
Rosenberg, William, New York, N. Y. Lacquer for use in soldering.	319,128	June 2	243	...	31	1092
Rosenberger, Emil, Chicago, Ill. Harness-saddle.	319,931	June 9	1313	346	31	1286
Rosenfeld, William, Manistee, Mich. Boot or shoe calk.	327,596	Oct. 6	124	29	33	24
Rosenfeld, William W., assignor to Home Vapor Bath and Disinfectant Company, New York, N. Y. Portable disinfecting apparatus.	330,853	Nov. 17	1894	513	33	881
Rosenkranz, Philipp H., and F. Prophet, assignors to Dreyer, Rosenkranz & Droop, Hanover, Prussia, Germany. Water-meter.	314,480	Mar. 24	1952	580	30	1165
Rosenstock, Moritz, New York, N. Y. Bustle.	327,455	Sept. 29	3013	787	32	1591
Rosenthal, Henry, New York, N. Y. Manufacture of flat brushes.	327,723	Oct. 6	295	75	33	51
Rosentreter, Frank L., assignor to Champion Safety Lock and Novelty Company, Cleveland, Ohio. Sash-holder.	324,825	Aug. 25	2027	555	32	922
Rosenzweig, Aaron, New York, N. Y. Handle for culinary vessels.	315,344	Apr. 7	493	125	31	90
Rosevear, Thomas. (See Kelly, Michael, assignor.)						
Rosewater, Andrew, Omaha, Nebr. Device for flushing tanks, sinks, &c.	320,398	June 16	1998	526	31	1426
Rosewater, Andrew, Omaha, Nebr. Automatic flush-tank.	330,352	Nov. 10	1241	331	33	750
Rosier, Thomas R., San José, Cal. Flaxseed-cleaner.	324,275	Aug. 11	1189	323	32	751
Rosquist, George, Brooklyn, N. Y. Machine for dampening webs of printing-paper.	311,261	Jan. 27	1472	402 403	30	291
Ross, Alfred, Wichita, Kans. Automatic blotter-holder.	327,022	Sept. 29	2441	638	32	1491
Ross, Charles, Jr., Brooklyn, N. Y. Paint-mixer.	316,487	Apr. 28	2087	546	31	396
Ross, Christian H., assignor of one-half to L. O. Dauchy, Chicago, Ill. Illuminating-tilling.	312,222	Feb. 10	1042	285	30	548
Ross, Daniel, assignor to C. Archibald, Cow Bay, Nova Scotia, Canada. Car-axle lubricator.	326,524	Sept. 15	1729	451	32	1349
Ross, Ebenezer. (See Mason, William M., assignor.)						
Ross, Ebenezer, et al. (See Deal, Josiah J., assignor.)						
Ross, George P., Chicago, Ill. Glove-fastener.	319,030	June 2	119	33	31	1070
Ross, George W. (See White, Maurice W., assignor.)						
Ross, George W. and J. D., Boonsville, Tex. Remedy for chicken-cholera.	313,956	Mar. 17	1268	...	30	1029
Ross, James A., Plymouth, Pa. Car-coupling.	320,702	June 23	2397	634	31	1508
Ross, James A., assignor of one-half to R. L. Jones, Plymouth, Pa. Car-coupling.	310,726	Jan. 13	728	198	30	144
Ross, James C., assignor of one-half to J. B. Speer, Joliet, Ill. Wire-barbing machine.	314,481	Mar. 24	1956	520 521	30	1166

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Ross, James D. (See Ross, George W. and J. D.)						
Ross, John B., Rahway, N. J. Stone-dressing machine	315,962	Apr. 14	1371	355	31	254
Ross, John G., Wakefield, Mass. Manufacturing boots or shoes	332,322	Dec. 15	1641	430	33	1305
Ross, John G., Wakefield, assignor to J. W. Brooks, trustee, Cambridge, Mass. Machine for channeling the soles of boots or shoes	330,922	Nov. 24	9001	540	33	909
Ross, John G., Wakefield, assignor to J. W. Brooks, trustee, Boston, Mass. Tool for channeling soles of boots or shoes	331,214	Nov. 24	2387	645	33	979
Ross, Joseph B. (See Mackley and Ross.)						
Ross, Lyon P., Rockford, Ill. Folding bed	318,806	May 26	2519	672 673	31	1009
Ross, Nelson. (See Lord and Ross.)						
Ross, Peter. (See Kemp and Ross.)						
Ross, Robert M., Utica, N. Y. Dental drill	310,467	Jan. 6	385	107	30	75
Ross, Robert N., St. Louis, Mo. Brick-machine	329,415	Oct. 27	2604	672 673	33	495
Ross, Thomas B., Evansville, Ind. Sash-fastener	319,324	June 2	474	128	31	1138
Ross, Warren A. (See Hoppe, John J., assignor.)						
Ross, William. (See White, Ross, Creasy, and Gritton.)						
Ross, Auguste J., assignor to G. H. Robinson, New York, N. Y. Production of cold	332,751	Dec. 22	2197		33	1410
Ross, Auguste J., assignor to G. H. Robinson, New York, N. Y. Production of cold	332,752	Dec. 22	2198		33	1410
Rosseter, Richard, Lynn, Mass. Tension attachment for sewing-machines	332,753	Dec. 22	2199	580	33	1410
Rossmann, Jerome. (See Rice and Rossmann.)						
Rossvally, Max L. (See Hicks, Thomas H., assignor.)						
Rost, Ernst, Dresden, Saxony, Germany. Lubricator	328,433	Oct. 13	1214	314	33	230
Roswall, Lars J. A. (See Hodge and Roswall.)						
Roswall, Lars J. A. (See Smith and Roswall.)						
Rote Automatic Brake Company. (See Robinson, Stillman W., assignor.)						
Rote, Charles V., Lancaster, Pa. Automatic car-brake	317,954	May 12	1372	368 369	31	784
Roth, Charles W., New York, N. Y. Window cold-air refrigerator	318,507	May 26	2108	569	31	938
Roth, Charles W., Evansville, Ind. Combined electrical weighing-scale and flour and bran packer	321,387	June 30	3277	876	31	1680
Roth, Frank J., assignor to Lane & Bodley Company, Cincinnati, Ohio. Stuffing-box packing	327,456	Sept. 29	3015	787	32	1591
Roth, George C., Big Springs, Kans. Draft-equalizer	313,374	Mar. 3	472	123	30	864
Roth, Gregory, Cincinnati, Ohio. Candle-machine	314,347	Mar. 24	1774	472	30	1122
Roth, J. George, South Bend, Ind. Vehicle-spring	331,215	Nov. 24	2388	646	33	980
Roth, J. George, South Bend, Ind. Vehicle-spring	332,257	Dec. 29	2208	750	33	1543
Roth, John F., Chicago, Ill. Kitchen-dresser	326,248	Sept. 15	1383	360	32	1224
Roth, Joseph C., Buffalo, N. Y. Spool-holder for sewing-machines	311,532	Feb. 3	99	29	30	368
Roth, Ludwig. (See Kwarel, Jacob L., assignor.)						
Roth, Emil, Breitenau, near Oederan, Germany. Centrifugal machine	322,086	July 14	907	224	32	173
Roth, Emil, Breitenau, near Oederan, Germany. Centrifugal machine	331,450	Dec. 1	279	76	33	1046
Rothengatter, Charles, Philadelphia, Pa. Fringe-reel	321,454	July 7	62	18	32	14
Rotherham, Alexander. (See Barton, Charles, assignor.)						
Rothman, Isaac, and F. Schmidt, St. Louis, Mo. Horse-collar	310,618	Jan. 13	586	161	30	118
Rothlisberger, Ernest, Cincinnati, Ohio. Top-prop nut	313,771	Mar. 10	996	258	30	972
Rothlisberger, Ernest, Cincinnati, Ohio. Top-prop nut	313,772	Mar. 10	999	258	30	972
Rothlisberger, Ernest, Cincinnati, Ohio. Washer for top-props	313,773	Mar. 10	999	258	30	972
Rothlisberger, Ernest, Cincinnati, Ohio. Top-prop nut	313,774	Mar. 10	1000	258	30	972
Rothlisberger, Ernest, Cincinnati, Ohio. Device for lining bands of wheel-hubs	318,927	May 26	2676	709	31	1038
Rothrock, Oscar, New York, N. Y. Feed-water heater	318,396	May 19	1965	522	31	902
Rothrock, Oscar, New York, N. Y. Feed-water heater	328,902	Oct. 20	1829	476 477	33	349
Rothrock, Oscar, New York, N. Y. Feed-water heater	328,903	Oct. 20	1832	477	33	349
Rothrock, Oscar, New York, N. Y. Heater and feeder for boilers	322,561	Dec. 15	1917	502	33	1352
Rothwell, Joseph A., Brooklyn, N. Y. Gage for lathes	314,544	Mar. 24	2037	544	30	1180
Rothziesel, Ignaz. (See Rachler and Rothziesel.)						
Rotramel, John. (See Orr, William H., assignor.)						
Rothhoff, William, Pittsburgh, Pa. Hot-blast stove	312,902	Feb. 24	1959	536	30	734
Rouart, Stanislas H. (See Lebasteur and Rouart.)						
Rough, John W., New Rochelle, N. Y. Boat	317,090	May 5	119	30	31	544
Roulstone, Edward A. G., Boston, assignor to A. J. Libby, Cambridge, Mass. Railway-rail joint	313,110	Mar. 3	95	24	30	784
Rounds, Christians. (See Smith and Rounds.)						
Rounds, Ezra, Lawrence, Mass. Sliver trumpet or guide for spinning mules or frames	325,700	Sept. 8	640	163	32	1140
Rounds, John C., Moravia, N. Y. Mechanical telephone	318,397	May 19	1967	530	31	902
Rounds, Thomas W. (See Kent, Hazham P., assignor.)						
Roundtree, William W. (See Lamoureux, John H., assignor.)						
Rouse, Franklin H. (See Norton and Rouse.)						
Roush, Allen S., and A. C. Halterman, New Haven, W. Va. Plant-bed heater	333,085	Dec. 22	2652	605	33	1492
Roush, Samuel, Wilmet, Ind. Removable school and church seat	311,854	Feb. 3	509	138	30	444
Roussseau, David, New York, N. Y. Circuit-controller for combined district-telegraph and domestic-supply circuits	322,973	July 28	2130	566	32	411
Roussseau, David, New York, N. Y. Electric gas-lighting device	322,976	Oct. 27	1959	510	33	379
Roussseau, David, New York, N. Y. Electric gas-lighting burner	322,977	Oct. 27	1963	510	33	379
Roussseau, Frank, Detroit, Mich. Car-starter	326,790	Sept. 22	2129	554	32	1427
Roussel, François, Villefranche, Rhone, France. Photographic camera	324,469	Aug. 18	1474	404	32	911
Rousselle, Moses, Chicopee, Mass. Dust-collecting attachment for carding-engines	328,060	Oct. 13	735	192	33	139
Roussay, Emile L., Yveray, Switzerland. Incandescent electric lamp	319,129	June 2	244	63	31	1092
Rouze, Gustave. (See Rouzé, Henri, fils, and G.)						
Rouze, Henri, Fils, and G. Rouzé, Paris, France. Button	323,462	Dec. 29	3197	836	33	1594
Rowbotham, John, Philadelphia, Pa. Rotary water-meter	325,361	Sept. 1	172	46	32	1047
Rowbotham, John, Philadelphia, Pa. Rotary water-meter	325,362	Sept. 1	174	46, 47	32	1047
Rowbottom, John M. (See Rowbottom, William and J. M.)						
Rowbottom, William and J. M., Allegheny, Pa. Protector for underground pipes	310,727	Jan. 13	729	198	30	144
Rowe Brothers. (See Rowe, Elmer E., assignor.)						
Rowe, David S. (See Rowe, Lydia A. and D. S.)						
Rowe, Elmer E., assignor to Rowe Brothers, Ellsworth, Me. Fifth-wheel for vehicles	321,641	July 7	313	83	32	60
Rowe, Lydia A. and D. S., Springfield, Ohio. Pie and cake rack	320,173	June 16	1642	437	31	1363
Rowe, Oliver J. (See Frick and Rowe.)						
Rowell, Benton C., Boston, Mass. Railway-switch	333,258	Dec. 29	2904	760 760	33	1543

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Rowell, Guilford D., Appleton, Wis. Cultivator and seeder frame	320,970	June 30	2749	731	31	1581
Rowell, John H., Solon, Me. Windmill	318,928	May 26	2678	710	31	1038
Rowell, John S., Beaver Dam, Wis. Harrow	332,562	Dec. 15	1918	502	33	1362
Rowell, Sidney W., New York, N. Y. Portable elevator	312,387	Feb. 17	1268	350 351	30	600
Rowell, William A., Jesmond Gardens, Newcastle-upon-Tyne, England. Manufacture of chromic acid	322,011	July 14	825		32	158
Roweton, John W., Clarksburg, Ohio. Thrashing-machine	326,249	Sept. 15	1386	360 361	32	1284
Rowland, Thomas F., New York, N. Y. Door for digesters	320,971	June 30	2750	731	31	1581
Rowland, Thomas F., New York, N. Y. Machinery for charging retorts	322,128	July 14	985	256 257	32	188
Rowlett, Jacob V., Richmond, Ind. Band sawing-machine	313,025	Feb. 24	2132	580	30	765
Rowlett, Jacob V., Richmond, Ind. Roller-skate. (Reissue)	10,570	Mar. 10	1100	286	30	990
Rowlett, Jacob V., Richmond, Ind. Foot-plate for skates	313,624	Mar. 10	799	209	30	935
Rowlett, Jacob V., Richmond, Ind. Foot-plate for roller-skates	313,625	Mar. 10	799	210	30	935
Rowlett, Jacob V., Richmond, Ind. Roller-skate	327,966	Oct. 6	598	156	33	107
Rowlett, Jacob V., Richmond, Ind. Roller-skate	328,070	Oct. 13	736	192	33	139
Rowlett, Joseph F., Richmond, Ind. Door-check	310,625	June 9	893	236	31	1222
Rowley, James F., Des Moines, Iowa. Artificial leg	314,726	Mar. 31	2277	605	30	1250
Rowley, John T., Johnstown, Pa. Rolling-mill for rods	311,920	Feb. 10	613	169	30	470
Roy, Ferdinand M., Jamaica, N. Y. Causticizing apparatus	312,512	Feb. 17	1457	399	30	634
Roy, Peter S., Denver, Colo. Pitman attachment for sewing-machines	318,207	May 19	1709	457	31	855
Royal, William H. (See Mair and Royal.)						
Royce, Charles H., assignor to J. H. Pease, Chicago, Ill. Packing-case for bottles	323,212	July 28	2460	654	32	472
Royer, B. F. (See Hebert, Peter, assignor.)						
Royer, Jacob, et al. (See Meyer, Phillip, assignor.)						
Royle, John, Jr. (See Royle, Vernon and J., Jr.)						
Royle, Vernon and J., Jr., Paterson, N. J. Machine for making tubing and cord, and for covering telegraph and other wires	325,363	Sept. 1	176	47, 48	32	1047
Roy, Philander B., Pultneyville, N. Y. Line-throwing projectile	310,532	Jan. 13	882	239	30	172
Roystone, William H., Corona, N. Y. Wood ornamentation	313,535	Mar. 10	683	179	30	913
Rubber and Celluloid Harness Trimming Company. (See Van Ness, Thomas E., assignor.)						
Rubel, Moses, et al. (See Tuerk, Samuel, assignor.)						
Rubenstein, Barney, East Saginaw, Mich. Chair-commode	321,915	July 7	692	180	32	125
Rubin, Eduard, Thun, Switzerland. Mold for making compressed powder-charges for cartridges	331,737	Dec. 1	741	186	33	1129
Rubin, Max, Philadelphia, Pa. Pencil or crayon holder	316,402	Apr. 21	1956	516	31	367
Rubin, Max, New York, N. Y. Fan	317,311	May 5	368	97	31	584
Rubin, Max, New York, N. Y. Shawl-strap	317,312	May 5	369	97	31	594
Rubin, Max, New York, N. Y. Waist-belt	332,624	Dec. 15	2003	525	33	1366
Rubin, Max, Brooklyn, N. Y. Fastener for hand-satchels	332,625	Dec. 15	2004	525	33	1368
Ruck, Richard M., Chatham, county of Kent, and E. Jones, Wallington, county of Surrey, England. Counterbalancing-float for marine torpedoes	319,626	June 9	894	237	31	1222
Rucker, Martin D., London, England. Bicycle	322,974	July 28	2134	567	32	412
Rucker, William L., Martinsville, Mo. Corn-planter	310,543	Jan. 6	492	136	30	94
Rudd, Charles L. and E. J. Manning, Lake City, Minn. Hammock holder or stand	320,174	June 16	1643	437	31	1363
Rudd, Karl E. (See Chapman, Hiram S., assignor.)						
Ruddock, Erwin B. (See Flower and Ruddock)						
Ruddy, Robert, Mount Vernon, assignor to Nathan Manufacturing Company, New York, N. Y. Lubricator	316,834	Apr. 28	2567	672	31	485
Ruddy, Robert, Mount Vernon, and L. Kaczander, assignors to Nathan Manufacturing Company, New York, N. Y. Lubricator	324,339	Aug. 11	1275	346	32	768
Rude Brothers Manufacturing Company. (See Swope and Rude, assignors.)						
Rude, John R., deceased. (See Swope and Rude.)						
Rudling, William A. and J. F. Coffin, Southaca, county of Hants, England. Velocipede	319,130	June 2	245	64	31	1092
Rudolph, Franklin, Chicago, Ill. Ornamentation surfaces	333,250	Dec. 29	2905		33	1544
Rudolph, Henry, and H. Schwenk, Rico, Colo. Combined overshoe and leggin	332,166	Dec. 8	1389	354	33	1250
Ruebeam, John E., Washington, D. C. Exercising apparatus	321,388	June 30	3260	876 877	31	1680
Ruebeam, John E., Washington, D. C. Muscle-beater	323,447	Aug. 4	83	24	32	538
Ruel, Laurent, Merrimac, assignor to W. M. Brewster, Georgetown, Mass. Machine for making felt boots, shoes, &c.	324,340	Aug. 11	1276	346 347	32	768
Ruetzsch, Konrad, Battle Creek, Iowa. Chimney cap and ventilator	313,375	Mar. 3	472	123	30	864
Ruetzel, Peter J., New York, N. Y. Button-gaiter	318,033	May 19	1490	400	31	213
Ruff, Frederick A., St. Clair, Mich. Washing-machine	326,060	Sept. 8	1120	285	32	1229
Ruff, Joseph. (See Hirth and Ruff.)						
Ruffel, Pierre J., Paris, France. India-rubber pump	320,888	June 23	2630	696	31	1553
Ruffin, Marie C. A. (See Bang and Ruffin)						
Ruffini, Frederick E. (See McCormick, John R., assignor.)						
Rufus, Otto R., Sonoma, Cal. Brush-cutting machine for vineyards	314,970	Mar. 31	2646	700	30	1317
Rugally, Adam, New York, N. Y. Velocipede	321,642	July 7	313	83	32	60
Rugles, George W., Charlotte, N. Y. Form to build boats over	311,038	Jan. 20	1146	313	30	226
Rugles, John. (See Starrett, David J., assignor.)						
Ruggles, Thomas D., Kent, Ohio. Oil-cup	317,500	May 12	877	225	31	690
Rugland, Samuel C., San Francisco, Cal. Tailors' shears	316,428	Apr. 28	2068	546	31	396
Rugland, Samuel C., San Francisco, Cal. Tailor's press-pad	325,277	Sept. 1	65	19, 20	32	1088
Ruhl, Fred A., Stockton, Cal. Device for destroying insects on plants	329,957	Nov. 10	725	185	33	647
Ruhl, Jesse F., Topeka, Ill. Wagon box	316,915	Apr. 28	2663	701	31	508
Ruhland, Ernest, Auburn, N. Y. Phosphate-sowing device	314,265	Mar. 24	1080	441	30	1111
Ruhlman, Henry S., et al. (See Zink, Harry S., assignor.)						
Rumble, A. Carson, assignor of two-thirds to C. E. Phinney and S. A. Baxter, Lima, Ohio. Railway-crossing	327,457	Sept. 29	3015	787	32	1591
Rumely, Meinrad and W. N., La Porte, Ind. Steam-boiler	329,459	Nov. 3	67	23	33	522
Rumely, William N. (See Rumely, Meinrad and W. N.)						
Rummel, Joseph P. (See Gurney, Worth H., assignor.)						
Rummel, Joseph P. (See Pollock, James R., assignor.)						
Rummel, Ludwig (See Corcoran and Rummel.)						
Rumney, Charles B., assignor of two-thirds to C. A. Skinner and G. D. Daniels, Homer, N. Y. Positive shuttle-motion for looms	323,738	Aug. 4	464	131	32	610
Rumay, Albert R., Cleveland, Ohio. Boxing-glove	320,972	June 30	2768	731	31	1581
Rundell, Daniel J., Norton, Kans. Wire gate	321,535	July 7	180	48	32	31
Rundell, Luman, New Baltimore, N. Y. Cutting apparatus for mowers and reapers	323,589	Aug. 4	286	82	32	575
Rundlett, George W., Freeport, Ill. Grinding-mill	331,987	Nov. 24	2196	595	33	246

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Rundquist, William, Elgin, Ill. Ruffing or gathering attachment for sewing-machines	398,904	Oct. 20	1833	478	33	350
Runnels, H. E., et al. (See Bradford, John B., assignor.)						
Runstetter, Andrew. (See Runstetter, Michael and A.)						
Runstetter, Michael, Dayton, Ohio, and A. Runstetter, Moline, Ill., assignors to Farmers Friend Manufacturing Company, Dayton, Ohio, and Deere & Mansur Company, Moline, Ill. Corn-planter	311,855	Feb. 3	510	138	30	444
Runstetter, Michael, deceased, (J. A. Marley administrator.) and A., assignors to Farmers Friend Manufacturing Company, Dayton, Ohio. Corn-planter	320,943	June 30	2707	718	31	1573
Ruynan, Charles C., Mansfield, Ohio. Sliding-door hanger	331,258	Nov. 24	2453	662	33	991
Ruynan, Harry T., Chicago, Ill. Lumber-elevator	332,213	Dec. 8	1429	369	33	1261
Ruynan, John W., Catawba, Ohio. Pump-driver	315,445	Apr. 7	635	164	31	113
Ruoff, Jacob, Providence, R. I. Ear-pick	320,820	June 23	2631	696	31	1553
Rupertus, Jacob, assignor to F. Higel, and J. Mallo, Philadelphia, Pa. Machine for oval-cutting sheet metal	332,214	Dec. 8	1430	369	33	1261
Rupp, Fredrick, and D. F. Smith, Milford, Ind. Vehicle-spring	325,015	Aug. 25	2203	603	32	954
Ruppel, Heinrich. (See Peter and Ruppel.)						
Ruppel, Henry, Cleveland, Ohio. Hydrant	313,452	Mar. 3	579	149	30	884
Rusby, Joseph R., Bloomfield, N. J. Sash-fastener	320,175	June 16	1645	438	31	1363
Ruset, Charles F., deceased; P. L. Miles administrator and assignor to M. Keiper, H. J. Myers, W. F. Buchholz, J. Kahn, S. R. Thorman, and the estate of said Ruset, Cleveland, Ohio. Dynamo-electro machine	322,310	July 14	1206	317	32	229
Rush, Abner. (See Shorkey and Rush)						
Rush, John W., Stockton, Cal. Sack-holder	314,300	Mar. 24	1713	455	30	1121
Rush, William B., assignor to Chambers, Bering, Quinlan Company, Decatur, Ill. Corn-planter check-rower	315,446	Apr. 7	636	164	31	114
Rushforth, William H., Camden, N. J. Feed-water heater	318,880	May 26	2618	695	31	1027
Rushmer, Benjamin, and G. A. Joyce, Columbus, Ohio. Vehicle-wheel	325,278	Sept. 1	66	20	32	1025
Rushton, Frank, Provo City, Utah Ter. Cartridge-shell extractor for fire-arms	323,368	July 28	2688	715	32	511
Russel, Philip. (See Gambrell and Russel.)						
Russell, Abiel L., Romulus, N. Y. Pump	328,146	Oct. 13	830	216	33	157
Russell, Alexander, Hot Springs, Ark., assignor to E. H. Johnson. Drawer for drawing-paper and documents	326,061	Sept. 8	1121	285	32	1229
Russell, Andrew J., and W. M. Gooden, London Bridge, Va. Fence	310,916	Apr. 28	2693	701	31	508
Russell, Ann C., et al. (See Cushman, George F., assignor.)						
Russell, Buell E. (See Wood, James F., assignor.)						
Russell, Edward H., Park City, Utah Ter. Purifying hyposulphite leaching solutions	320,590	June 23	2255		31	1492
Russell, Eli F., San Francisco, Cal. Ore-furnace	310,619	Jan. 13	528	162	30	119
Russell & Erwin Manufacturing Company. (See Burgess, Charles M., assignor.)						
Russell & Erwin Manufacturing Company. (See Jones, Horace K., assignor.)						
Russell & Erwin Manufacturing Company. (See Russell, Henry E., Jr., assignor.)						
Russell & Erwin Manufacturing Company. (See Russell and Jones, assignors.)						
Russell, George, McKeesport, Pa. Combined fire-iron stand and support for coal-vases	312,513	Feb. 17	1458	399	30	634
Russell, George, McKeesport, Pa. Forming-tube for pipe-welding machines	313,837	Mar. 10	1085	282	30	987
Russell, George, and D. R. Wood, McKeesport, Pa.; said Wood assignor of one-half to said Russell. Machine for making pipe	314,980	Mar. 31	2647	700	30	1317
Russell, George W. (See Gould, Simon L., assignor.)						
Russell, Henry E., Jr., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Knob attachment	326,920	Sept. 22	2308	604	32	1459
Russell, Henry E., Jr., New Britain, and H. K. Jones, Hartford, assignors to Russell & Erwin Manufacturing Company, New Britain, Conn. Wire-notching machine	315,170	Apr. 7	255	62	31	47
Russell, Henry T., Chicago, Ill. Die for making bells	316,489	Apr. 28	2089	547	31	396
Russell, Henry T., Chicago, Ill. Making scissors	329,855	Nov. 3	583	149	33	614
Russell Horseshoe Company. (See Claude, Louis G., assignor.)						
Russell, Isaac H., Easthampton, Mass. Cord-spool and tension device for grain-binders	316,917	Apr. 28	2694	701	31	508
Russell, Isaac H., East Hampton, assignor to Abbot Spinner Company, Boston, Mass. Machinery for the manufacture of cotton yarn	317,675	May 12	1002	260	31	713
Russell, James W., Ellenville, N. Y. Sled	325,570	Sept. 1	475	118	32	1106
Russell, John T., et al. (See Gill, Edwin R., Jr., assignor.)						
Russell, Joseph A. (See Peirce and Russell.)						
Russell, Joseph H. (See Kitson, John, assignor.)						
Russell, Leander J. (See Curtis and Russell.)						
Russell & Morgan Printing Company. (See Murray, Samuel J., assignor.)						
Russell, S. Howland, New York, N. Y. Sash-balance	329,856	Nov. 3	584	150	33	614
Russell, Samuel, Brooklyn, N. Y. Electric cartridge	319,628	June 9	897	237	31	1222
Russell, Samuel, Brooklyn, assignor to American Electric Arms and Ammunition Company, New York, N. Y. Electric primer	319,627	June 9	896	237	31	1222
Russell, Samuel, Brooklyn, assignor to American Electric Arms and Ammunition Company, New York, N. Y. Electric cartridge	319,629	June 9	898	238	31	1222
Russell, Sterne, assignor to Scovill Manufacturing Company, Waterbury, Conn. Student-lamp	312,514	Feb. 17	1459	400	30	634
Russell, Sterne, assignor to Scovill Manufacturing Company, Waterbury, Conn. Photographic-plate holder	326,921	Sept. 22	2309	604	32	1459
Rust, William A., trustee. (See Ritter and Kellner, assignors.)						
Rust, Emory G., Grand Prairie, Tex. Sash-holder	319,509	June 9	734	197	31	1193
Rust, George P., assignor of one-half to D. S. Preason, Gloucester, Mass. Fish-packing apparatus	330,929	Nov. 24	2002	540	33	909
Rusferholz, Rudolf, New York, assignor of one-half to R. Mäge, Katona, N. Y. Insecticide	329,594	Nov. 3	233		33	549
Rutan, Jennie S., Philadelphia, Pa. Window-cleaner	329,070	July 14	908	235	32	173
Ruthenburg, Marcus, Cincinnati, Ohio. Automatic fire-extinguisher	318,508	May 26	2109	569	31	938
Rutherford, John B., Netawaka, Kans. Fifth-wheel	319,510	June 9	735	197	31	1193
Rutherford, John L. and A. F. Wood, assignors to Parker & Whipple Company, Meriden, Conn. Clock-case	318,435	May 19	2016	542	31	910
Ru Ton, Hiram W., et al. (See Gore, Henry A., assignor.)						
Rutter, Hannah J., Oakland City, Ind. Cooking-vessel	313,453	Mar. 3	580	149	30	884
Rutter, Hannah J., Oakland City, Ind. Cooking utensil	323,887	Aug. 4	648	163	32	645
Rutz, Carl, Brooklyn, N. Y. Sewing-machine binding attachment	311,376	Jan. 27	1639	449	30	382
Ruyter, Henry. (See Traist and Ruyter.)						
Ryan, Daniel W. (See Delano, Eben A., assignor.)						
Ryan, Daniel W. (See Miller, George, assignor.)						
Ryan, Daniel W. (See Miller, George J., assignor.)						
Ryan, Francis G. (See Cleve and Ryan.)						
Ryan, John C. (See Hall and Ryan.)						
Ryan, John M., Vicksburg, Miss. Saw-tooth saw	319,425	June 2	600	163	31	1162

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Ryan, John S. and J. Conway, New York, N. Y. Shutter-fastener	311,448	Jan. 27	1733	472	30	339
Ryan, Joseph P., New York, N. Y. Painter's sander	325,016	Aug. 25	2303	603	32	954
Ryan, Matthew, Washington, D. C. Heating-drum	320,857	Nov. 3	586	150	33	614
Ryan, Patrick. (See Carroll and Ryan.)						
Ryan, Patrick, Chicago, Ill. Bridge gate or guard	327,112	Sept. 29	2568	669 670	32	1512
Ryan, Rodger. (See Gardner, John, assignor.)						
Ryan, Thomas, Cohoes, N. Y. Machine for finishing ax-poles	332,215	Dec. 8	1432	369 370	33	1202
Ryan, Thomas and T. E., Lockport, N. Y.; said Thomas Ryan administrator of said T. E. Ryan, deceased. Lathe-tool	312,223	Feb. 10	1043	286	30	548
Ryan, Thomas E., deceased. (See Ryan, Thomas and T. E.)						
Rybacek, Frank H., Riverside, Iowa. Corn-planter	326,525	Sept. 15	1731	451	32	1350
Ryder, Benjamin L., Chambersburg, Pa. Fruit-drier	320,399	June 16	2000	526 527	31	1427
Ryder, Edwin P., Port Jefferson, assignor of one-half to J. W. Bailey, Brooklyn, N. Y. Dinner-pail	325,217	Aug. 25	2464	678	32	1003
Ryder, Elisha, Hartford, Conn. Envelope-moistener	319,426	June 2	601	163	31	1163
Ryder, Elisha, Hartford, Conn. Envelope-moistener	325,632	Sept. 1	550	140	32	1120
Ryder, Seth B. (See Mitchell, Lewis A., assignor.)						
Ryder, William J. H., Newcastle-upon-Tyne, county of Northumberland, England. Safety-lamp	312,584	Feb. 17	1547	421	30	652
Rye, Edgar, Albany, Tex. Car-coupling	313,026	Feb. 24	2132	540	30	765
Ryer, Benjamin F., assignor of one-half to L. Gathmann, Chicago, Ill. Stocking	319,131	June 2	246	64	31	1092
Ryer, William H., South Bend, Ind. Plow	311,449	Jan. 27	1734	472	30	339
Ryland, Marion W., Warsaw, Ind. Locking whip-socket	323,369	July 28	2688	715	32	511
Rylands, Dan, Stairfoot Barnsley, county of York, England. Machinery for drilling holes in bottles	320,505	June 23	2142	565	31	1460
Ryle, John, Paterson, N. J. Warming-machine	317,472	May 5	719	187	31	657
Ryle, William, Paterson, N. J. Hydrant	310,853	Jan. 13	883	229	30	173
Ryman, William P., Wilkes-Barre, Pa. Electric low-water alarm for boilers	323,600	Aug. 4	287	83	32	575
Sabbert, Henry P., Oakley, assignor to Kroeger, Sabbert & Co., Cincinnati, Ohio. Table-top	329,066	Oct. 27	2124	550	33	407
Sabens, Stephen B., New Bedford, Mass. Seine	311,377	Jan. 27	1642	449	30	322
Sabin, Alvah H., assignor to himself, G. H. Morse, W. A. Crombie, O. Shepard, E. W. and T. S. Peck, Burlington, Vt. Condensed milk	329,778	Nov. 3	474	.....	33	595
Sabin, Alvah H., assignor to American Milk Sugar Company, Burlington, Vt. Making lactose or milk-sugar	329,858	Nov. 3	586	.....	33	614
Sachs, Edward, et al. (See Ball, William H., assignor.)						
Sachs, William, Berlin, Germany. Armhole-gusset	322,855	July 21	1947	515	32	370
Sachs, William, Berlin, Germany. Gusset for the armholes of garments	329,595	Nov. 3	324	80	33	550
Sack, George F., New York, N. Y. Hair-clipping machine	333,340	Dec. 29	3011	788	33	1569
Sack, Hermann, Philadelphia, Pa. Foot-warmer	325,116	Aug. 25	2337	640	32	978
Sack, Hugo, Plagwitz-Leipzig, Germany. Light copying apparatus	324,960	Aug. 25	2126	521	32	941
Sackett, Frederick E., Bridgeport, Conn. Music-leaf turner	318,609	May 26	2111	569	31	938
Sackett, George H., Brooklyn, N. Y. Gripping-clamp for lines or reins	331,068	Nov. 24	2197	585	33	946
Sackett Manufacturing Company. (See Lavigne, Joseph P., assignor.)						
Sadler, John. (See Bond and Sadler.)						
Saegmuller, George N., Washington, D. C. Attachment for engineers' transits for vertical lighting	327,390	Sept. 29	2634	739	32	1561
Safety Steam Generator Company. (See Zell, Robert R., assignor.)						
Safford, Henry C., Brooklyn, N. Y. Tool for boring wells	318,034	May 19	1491	400	31	813
Sagendorph, L. Lewis, assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Apparatus for manufacturing flexible roofing material	310,544	Jan. 6	494	137	30	95
Sagendorph, L. Lewis, assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Sheet-metal roofing	312,658	Feb. 24	1635	450	30	678
Sagendorph, L. Lewis, assignor of one-half to H. P. Lloyd, Cincinnati, Ohio. Metal roof	313,376	Mar. 3	473	123 124	30	865
Sagmeister, John, Omaha, Nebr. Car-axle box	332,112	Dec. 8	1292	335	33	1237
Sahr, Frederick, Martinsville, N. Y. Window-fastener	331,005	Nov. 24	2095	567	33	927
Sahlein, Samuel H. (See Steinar, Jacob A., assignor.)						
Saint Requier, Henry F., Asnières, assignor to La Société Anonyme Pour les Procédés Brevetés de Farinerie Saint Requier, Paris, France. Bolting-reel	324,585	Aug. 18	1613	444	32	839
Saint Requier, Henry F., assignor to La Société Anonyme pour les Procédés Brevetés de Farinerie Saint Requier, Paris, France. Roller-mill	330,264	Nov. 10	1123	299	33	727
Saint Requier, Henry F., Asnières, assignor to La Société Anonyme pour les Procédés Brevetés de Farinerie Saint Requier, Paris, France. Machine for the reduction of grain	332,006	Dec. 8	1123	293	33	1208
Saladee, Cyrus W., Shelton, Conn. Spring-vehicle	331,314	Dec. 1	108	25, 26	33	1018
Sale, James H., Murray, Ky. Cotton chopper and cultivator	322,975	July 28	2135	567	32	412
Salisbury, Colonel, Wright, Mich. Lever-power	315,556	Apr. 14	819	215	31	152
Salisbury, George P., New Haven, Conn. Machine for finishing metallic cartridge-shells	312,019	Feb. 10	763	208	30	496
Salisbury, Silas C., New York, assignor to L. P. Rose, Yonkers, N. Y. Apparatus for manufacturing illuminating-gas	317,581	May 12	877	225	31	690
Salkeld, Samuel. (See Heya and Salkeld.)						
Salomo, Hugo, Melbourne, Victoria. Lathe-dog	314,482	Mar. 24	1958	521	30	1166
Salomon, Henry. (See Moore, Ira W., assignor.)						
Salomons, Mitchell A. (See Brush and Salomons.)						
Salter, William T. (See Marston, Thomas P., assignor.)						
Salter, William T., New York, N. Y. Folding bed	325,974	Sept. 8	998	254	32	1207
Saltsman, Daniel J., Brewton, Ala. Log-loader	317,536	Mar. 10	684	179	30	913
Saltsman, Daniel J., assignor to H. H. Malone, Brewton, Ala. Log-turner	320,591	June 23	2256	597	31	1482
Saltsman, George, Bloomington Ill. Spark-arrester	331,089	Nov. 24	2199	595	33	947
Salvator, Carl and G. Von Dormus, Vienna, Austria-Hungary; said Von Dormus assignor to said Salvator. Magazine fire-arm	329,676	Sept. 22	1936	509 510	32	1393
Salzgeber, John C., St. Louis, Mo. Coffee-roaster	316,066	Apr. 21	1504	393	31	285
Salzgeber, John C., St. Louis, Mo. Apparatus for treating hot roasted coffee	329,490	Nov. 3	89	84	32	522
Sammis, Pierre, Paris, France. Liquid-meter	325,975	Sept. 8	999	255	32	1207
Sammis, Edward M., New York, N. Y. Thill and pole coupling	329,779	Nov. 3	475	119	33	595
Sammis, John W. (See Ribble and Sammis.)						
Sampson, Silvestre, New York, N. Y. Fire-escape	318,299	May 19	1826	449 490	31	877
Sample, Charles A., et al. (See Monger, Francis M., assignor.)						
Sampson, Augustus S., and D. G. Peck, Minneapolis, Minn. Artificial flag-stone	315,557	Apr. 14	819	215	31	152
Sampson, George T., Dayton, Ohio. Sled-propeller	312,388	Feb. 17	1272	351	30	601

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Sampson, Joseph C. (See Hurd, Lorenzo D., assignor.)						
Sampson, W. A. (See Lewis, Wallace J., assignor.)						
Samuel, Edward. (See Wharton and Samuel.)						
Samuel, Edward, assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Conduit for cable or electrical railways.	315,841	Apr. 14	1193	311	31	223
Samuel, Edward, assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Cable railway.	315,964	Apr. 14	1376	356	31	254
Samuel, Edward, assignor to W. Wharton, Jr., & Co., (limited,) Philadelphia, Pa. Traveling crane.	329,219	Oct. 27	2311	598	33	442
Samuel, Leopold S., Newark, N. J. Diaper.	318,141	May 19	1637	434	31	839
Samuel, William E., Fairfield, Nebr. Car-coupling.	327,197	Sept. 29	2683	697	32	1534
Samuels, Samuel D., assignor, by mesne assignments, to himself and S. Hano, Boston, Mass. Waste-cock for sinks, &c.	327,597	Oct. 6	125	29	33	24
Samuels, Thomas, Hadley-Monken, county of Middlesex, England, assignor of one-half to A. M. and W. Clark. Photographic camera.	321,139	June 30	2969	786	31	1620
Sanborn, Brazilla H., Tupper's Plains, Ohio. Combined washing and wringing machine.	319,325	June 2	475	128	31	1136
Sanborn, Clarence, Sacramento, assignor of one-half to A. T. Dewey, San Francisco, Cal. Lifting apparatus.	319,132	June 2	246	64	31	1093
Sanborn, Samuel, San Francisco, Cal. Food for calves.	317,021	May 5	120		31	544
Sanborn, Samuel, San Francisco, Cal. Preservative for milk.	327,023	Sept. 29	2442		32	1491
Sancan, Francois, Thibodeaux, La. Apparatus for delivering clean water into cisterns from roofs of buildings.	316,184	Apr. 21	1689	437	31	317
Sandage, Jacob R., assignor of one-half to J. Sandage, South Bend, Ind. Axle-skein.	312,765	Feb. 24	1780	491	30	704
Sandage, Joshua. (See Sandage, Jacob R., assignor.)						
Sandberg, John E., and M. Akeon, Butte City, Mont. Ter. Fire-escape.	326,336	Sept. 15	1499	391	32	1307
Sandel, Caleb, Campiti, La. Cotton-chopper.	326,791	Sept. 22	2131	554	32	1427
Sandeman, John G., and P. Everitt, London, England. Apparatus for automatically delivering prepaid goods to accord with the price paid therefor.	323,213	July 28	2461	654	32	472
Sanders, Bleuford B. (See Wilson and Sanders.)						
Sanders, Eliza. (See Sanders, Louis, assignor.)						
Sanders, Eliza. (See Sanders, Louis, assignor.) (Reissue.)						
Sanders, George A., et al. (See Newman, Nelson, assignor.)						
Sanders, George A., Lake Village, N. H. Drill-rest for lathes.	316,185	Apr. 21	1670	437	31	317
Sanders, Joseph F., and T. T. Whitcomb, Elizabeth City, N. C. Two-wheeled vehicle.	321,140	June 30	2970	787	31	1621
Sanders, Louis, assignor to E. Sanders, Brooklyn, N. Y. Waist-belt.	312,168	Feb. 10	971	265	30	536
Sanders, Louis, Brooklyn, assignor to E. Sanders, New York, N. Y. Waist-belt. (Reissue.)	10,612	June 16	2070	544	31	1429
Sanders, Louis M., Roseville, Mich. Electrical apparatus for controlling marine engines.	326,337	Sept. 15	1501	392	32	1307
Sanders, M. E. (See Klidzio, Anthony J., assignor.)						
Sanders, Simeon F. (See Davidson and Sanders.)						
Sanders, Theodore, assignor of two-thirds to J. B. Nichols and E. A. Hine, Danbury, Conn. Machine for pinning out hats.	328,719	Oct. 20	1605	418	33	307
Sanders, William J., Gilmer, Tex. Hearth guard or shield.	315,345	Apr. 7	494	125	31	90
Sandford, James A. (See Burdick and Sandford.)						
Sandland, Capron & Co. (See Lettré, Philipp, assignor.)						
Sandmark, Sven P., Ishpeming, Mich. Watch-regulator.	318,908	May 19	1710	457	31	855
Sands, Fred L., Lyndon, Ill. Seat and desk fastening.	323,639	Dec. 22	2928	606	33	1429
Sandstrom, Daniel, and J. H. Anderson, Pullman, Ill. Blast-furnace.	313,537	Mar. 10	685	179	30	913
Sandoz, Auguste, Neuchâtel, Switzerland. Stem-winding watch.	326,677	Sept. 22	1943	510	32	1395
Sandusky, David F., McLeansborough, Ill. Animal-poke.	320,230	Oct. 27	2312	599	33	442
Sandvoe, Frederick, New York, N. Y. Belt-coupling.	320,592	June 23	2257	597	31	1482
Sanford, Albert, Oakkosh, Wis. Fifth-wheel.	327,598	Oct. 6	186	20, 30	33	24
Sanford, Gelston, Brooklyn, N. Y. Machine for obtaining fibers from leaves or plants.	321,536	July 7	181	48	32	36
Sanford, Hopkins A., New Haven, Conn., assignor of one-half to J. A. Crouthers, New York, N. Y. Wick-adjuster.	320,291	June 16	1811	481	31	1392
Sanford, Hopkins A., assignor to Automatic Safety Boiler and Engine Company, New Haven, Conn. Automatic feed for steam-boilers.	324,417	Aug. 18	1385	377	32	796
Sanford, Isaac R., Boston, Mass. Heel-protector.	318,035	May 19	1491	400	31	814
Sanford, Joseph B., Jersey City, N. J. Wharf.	320,292	June 16	1812	481	31	1392
Sanford, Stephen, Amsterdam, N. Y. Apparatus for dyeing and sizing.	327,599	Oct. 6	127	30	33	24
Sangster, Amos W. (See Ransom and Sangster.)						
Sanner, James M., Bradford, Pa. Pump for oil-wells.	320,176	June 16	1646	438	31	1363
Santley, William B., Wellington, Ohio. Dead-pulley.	329,679	Nov. 3	342	87	33	569
Sapworth, George S., Shadwell, county of Middlesex, England. Machine band or belting.	323,214	July 28	2463	655	32	473
Sardy, John L., and C. N. Coles, New York, N. Y. Thermometer.	332,947	Dec. 22	2455	649	33	1459
Sargeant, Thomas C., Church Stowe, Weedon, county of Northampton, England. Plow-colt.	325,451	Sept. 1	319	77	32	1076
Sargent, Alden B., et al. (See Main, Oscar F., assignor.)						
Sargent, Allan C. (See Sargent, Frederick G. and A. C.)						
Sargent, Charles E., St. Louis, Mo. Machine for bending wood.	322,856	July 21	1948	515	32	370
Sargent & Co. (See Gillilan, William, assignor.)						
Sargent & Co. (See Sargent, George H., assignor.)						
Sargent & Co. (See Sargent, Henry B., assignor.)						
Sargent & Co. (See Sargent, Joseph B., assignor.)						
Sargent & Co. (See Shaw, John H., assignor.)						
Sargent & Co. (See Sparks, William E., assignor.)						
Sargent, Frederick G., Westford, Mass. Electric signaling apparatus.	326,158	Sept. 15	1247	320	32	1259
Sargent, Frederick G. and A. C., Graniteville, Mass. Wool-drier.	327,198	Sept. 29	2684	697	32	1534
Sargent, Frederick G. and A. C., Graniteville, Mass. Wool-washing machine.	327,199	Sept. 29	2685	698	32	1534
Sargent, Frederick G. and A. C., Graniteville, Mass. Wool-washing machine.	330,930	Nov. 24	2004	541	33	910
Sargent, George H., New York, N. Y., assignor to Sargent & Co., New Haven, Conn. Transom-lifter.	324,170	Aug. 11	1034	282	32	722
Sargent, Henry B., assignor to Sargent & Co., New Haven, Conn. Window-sash pull.	311,687	Mar. 10	875	228	30	950
Sargent, Henry B., assignor to Sargent & Co., New Haven, Conn. Latch-case.	321,853	July 7	923	160	32	114
Sargent, Henry C., Machias, Me. Hame.	318,036	May 19	1492	400	31	814
Sargent, James T., Cleveland, Ohio. Wash-board.	327,600	Oct. 6	128	30, 31	33	24
Sargent, James T., Cleveland, Ohio. Wash-board.	327,601	Oct. 6	130	31	33	25
Sargent, John N. (See Steadman and Sargent.)						
Sargent, John N., Aurora, Ind. Railway-frog.	328,815	Oct. 20	1713	446	33	329
Sargent, John W., Cambridge, Mass. Steam-engine governor.	316,490	Apr. 28	2091	547	31	396
Sargent, John W., Cambridgeport, Mass. Mechanism for operating slide-valves.	318,037	May 19	1493	401	31	814
Sargent, John W., Scranton, Pa. Piston-valve.	332,113	Dec. 8	1293	335	33	1237
Sargent, Joseph B., assignor to Sargent & Co., New Haven, Conn. Bench-hook.	314,058	Mar. 17	1386	362	30	1052

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Sargent's Sons, C. G. (See Rice, David H., assignor.)						
Sassack, William, Brooklyn, N. Y. Roundabout.	314,881	Mar. 31	2507	665	30	1294
Sater, Hans H., Dubuque, Iowa. Cultivator.	333,163	Dec. 29	2766	725	33	1518
Sathe, Ole A., Jackson, Minn. Bolt-cutter.	324,961	Aug. 25	2127	581	32	942
Sathe, Ole A., Jackson, Minn. Sled-knee.	327,826	Oct. 6	420	109	33	74
Sattley, Archibald. (See Sattley, Marshall, assignor.)						
Sattley, Archibald, et al. (See Price, Joshua C., assignor.)						
Sattley, Marshall, assignor of one-third to A. Sattley, Taylorville, Ill. Vehicle-wheel.	321,758	July 7	475	125	32	88
Sander, John M., Harrisburg, Pa. School-desk.	331,549	Dec. 1	413	111	33	1073
Sander, John M., Harrisburg, Pa. School-seat.	331,550	Dec. 1	415	111	33	1073
Sander, John M., Harrisburg, Pa. Opera-chair.	331,551	Dec. 1	416	112	33	1073
Saner, Lorenz, Napa City, Cal. Hoe.	313,244	Mar. 3	312	77	30	833
Saner, Martin F., Somonauk, Ill. Horse-collar.	330,623	Nov. 17	1593	426	33	825
Sauerbier, Henry, Newark, N. J. Can-opener.	325,770	Sept. 8	748	187	32	1160
Sauermilch, Emil, New York, N. Y. Weighing and price scale.	331,090	Nov. 24	2200	595	33	947
Saul, Henry R., Middletown, Pa. Thill-coupling.	330,651	Nov. 10	849	219	33	672
Sault, Thomas. (See Alberger and Sault.)						
Saunders, Alexander, Yonkers, N. Y. Apparatus for threading pipes and bolts.	317,022	May 5	121	30, 31	31	544
Saunders, Benjamin, Claverack, N. Y. Mower.	321,141	June 30	2971	787	31	1621
Saunders, David R., and J. E. Welling, Leesburg, Ky. Animal-poke.	332,114	Dec. 8	1294	336	33	1237
Saunders, George E., assignor of one-half to W. T. Beasley, Burden, Kans. Mechanical power.	317,023	May 5	122	31	31	544
Saunders, John K., et al. (See Hale, Roswell W., assignor.)						
Saunders, William L., Jersey City, N. J. Drill-head for channeling-machines.	311,378	Jan. 27	1643	449	30	322
Saunders, William L., Jersey City, N. J. Sand and water feed mechanism for stone-sawing machines.	315,171	Apr. 7	257	62	31	47
Saunders, William L., Jersey City, N. J. Stone-cutting machine.	320,293	June 16	1813	481	31	1392
Saunders, William L., Jersey City, N. J. Mining-machine.	320,294	June 16	1814	482	31	1392
Saunders, William L., Jersey City, N. J. Drill-head for channeling-machines.	320,295	June 16	1815	482	31	1393
Saunders, William L., Jersey City, N. J. Feeding mechanism for mining-machines.	320,296	June 16	1816	483	31	1393
Sanpiquet, Arsène, Nantes, France. Box.	321,056	June 30	2258	760	31	1601
Savage, Andrew. (See Savage, John Y. and A.)						
Savage, Andrew and J. Y., Scotland Neck, N. C. Planter.	322,752	July 21	1806	476	32	344
Savage, John E. (See Jackson, Andrew, assignor.)						
Savage, John Y. (See Savage, Andrew and J. Y.)						
Savage, John Y. and A., Scotland Neck, N. C. Combined fertilizer-distributor and stalk-breaker.	333,164	Dec. 29	2768	725	33	1519
Savage, Richard, San Francisco, Cal. Apparatus for forming cores or molds for castings.	329,958	Nov. 10	736	185	33	647
Savage, Richard, San Francisco, Cal. Core-making machine.	329,959	Nov. 10	736	186	33	648
Savane, Robert, South Melbourne, Victoria, assignor of one-half to F. Y. Wolseley, Euroka Walgett, New South Wales. Dumping-car.	332,007	Dec. 8	1124	294	33	1209
Savary, Eugene A., New York, N. Y. Making crystalline glass.	332,441	Dec. 15	1745		33	1323
Savory, Arthur L. (See Barker and Savory.)						
Savoy, Leo L. (See Melancon and Savoy.)						
Savoy, Ulysses, Jr., Brooklyn, N. Y., and W. R. Searing, Newark, N. J. Clothes-line.	326,250	Sept. 15	1388	361	32	1285
Saw, Thomas. (See Phillips, Clarence, assignor.)						
Sawin, James J., Worcester, Mass. Treating leather-stock with naphtha to extract oils therefrom.	332,240	Dec. 29	2299	606	33	1430
Sawtell, Henry F., Leominster, Mass. Umbrella.	313,111	Mar. 3	95	25	30	794
Sawtelle, Herbert H., Lowell, Mass. Belt-tightener.	312,659	Feb. 24	1636	451	30	678
Sawyer, Abel H., et al. (See Mitchell, John B., assignor.)						
Sawyer, Alzaman, Providence, R. I. Convertible chair.	312,020	Feb. 10	765	208	30	498
Sawyer, Amos, et al. (See Coe, Charles E., assignor.)						
Sawyer, Annie E., Charlestown, Mass. Skirt-protector.	318,038	May 19	1435	401	31	814
Sawyer, Benjamin F., Oxanna, Ala., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine.	326,592	Sept. 22	1816	477	32	1373
Sawyer, Francis A., Boston, Mass. Carriage-step.	314,151	Mar. 17	1512	396	30	1074
Sawyer, Fred. L. (See Brackett and Sawyer.)						
Sawyer, George H., La Moille, Ill. Corn knife and shield.	328,344	Oct. 13	1080	281	33	205
Sawyer, Harriet A., St. Louis, Mo. Hand-axel.	313,626	Mar. 10	800	210	30	925
Sawyer, Henry, et al. (See Barron, John W., assignor.)						
Sawyer, Howard M., Medford, Mass. Storm-hat.	317,677	May 12	1005	261	31	713
Sawyer Leather Machinery Company. (See Sawyer, William A., assignor.)						
Sawyer Spindle Company. (See Carroll, William T., assignor.)						
Sawyer, Walter B., et al. (See Cassidy, Thomas W., assignor.)						
Sawyer, Walter H. (See Brantley, Thomas, assignor.)						
Sawyer, Willard W., and J. H. Gould, Springfield, Mass., said Gould assignor to W. A. Force, Brooklyn, N. Y. Hand-stamp.	315,076	Apr. 7	123	29	31	24
Sawyer, William A., Danversport, assignor to Sawyer Leather Machinery Company, Boston, Mass. Machine for measuring the areas of surfaces.	329,596	Nov. 3	235	60, 61	33	550
Sawyer, William A., Danversport, assignor to Sawyer Leather Machinery Company, Boston, Mass. Machine for measuring the areas of surfaces.	329,597	Nov. 3	238	62	33	551
Sawyer, William E., New York, and A. Man, Brooklyn, N. Y., assignors to Electro-Dynamic Light Company of New York. Electric light.	317,677	May 12	1004	260	31	713
Sawyer, William H., Providence, R. I. Electrical connecting-cord.	311,611	Feb. 3	203	57	30	387
Sawyer, William H., Providence, R. I. Electrical-circuit opener.	311,681	Feb. 3	280	80	30	404
Sawyer, William H., Providence, R. I. Clamp for binding wires to insulators.	313,377	Mar. 3	475	124	30	885
Sawyer, William H., Providence, R. I. Electrical conductor.	319,326	June 2	477	129	31	1139
Sawyer, William H., Providence, R. I. Metal-tipped electric cord.	324,171	Aug. 11	1035	283	32	722
Sax, John K., Pittston, Pa. Car-wheel.	319,511	June 9	736	197	31	1193
Saxby, James, Tooting, county of Surrey, England. Apparatus for moving and locking railway-points.	316,186	Apr. 21	1671	437	31	317
Saxton, George W., Sterling, Kans. Remedy for hog-cholera.	324,418	Aug. 18	1398		32	797
Saxton, Henry N., Jr. (See Gunn, John C., assignor.)						
Saxton, Oliver H., Washington, Ohio. Portable telephone.	317,213	May 5	390	98	31	595
Sayer, Rockwell, Chicago, Ill. Dressing-case.	323,739	Aug. 4	465	131	32	610
Sayer, Rockwell, Chicago, Ill. Water-closet.	324,172	Aug. 11	1036	283	32	722

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Saylor, Frederick C., <i>et al.</i> (See Midgley, John, assignor.)						
Saylor, William F., <i>et al.</i> (See Midgley, John, assignor.)						
Sayles, Frederic C., <i>et al.</i> (See Midgley and Hall, assignors.)						
Sayles, William F., <i>et al.</i> (See Midgley and Hall, assignors.)						
Saylor, Jackson, <i>et al.</i> (See Saylor, Louis S., assignor.)						
Saylor, Louis S., assignor of two-thirds to J. Saylor and J. Thomas, Indianapolis, Ind.	320,973	June 30	2753	{ 731 732 }	31	1581
Rolling-mill hooking and carrying machine.						
Savre, Louis A. (See Scott, L. Herbert, assignor.)						
Savre, Sylvester P., New Martinsville, assignor of one-half to C. W. Barrack, Wetzel County, W. Va. Rotary harrow.	325,865	Sept. 8	870	919	32	1183
Seafie, W. Lucien, Allegheny, Pa. Tube-joint for gas-conduits.	330,624	Nov. 17	1594	427	33	825
Scales, Charles H., Covington, Ky., assignor of one-half to J. R. Silliman, Toronto, Canada. Tobacco-box, &c.	313,112	Mar. 3	97	25	30	795
Scales, Christopher C., assignor of one-half to E. H. Davis, Toronto, Ontario, Canada. Sign.	321,252	June 30	3108	827	31	1646
Scales, Edward A., Lowell, Mass., assignor, by mesne assignments, to Electric Fare Register Company, Portland, Me. Electric register and recorder for fares, &c.	331,826	Dec. 8	861	921	33	1159
Scales, George W., Lafayette, N. J. Coin attachment for pocket-books.	316,664	Apr. 28	2306	605	31	437
Scanlan, Patrick, Ida Grove, Iowa. Money-envelope.	332,008	Dec. 8	1126	294	33	1209
Scanlan, Thomas F., and O. A. Dinmore, Boston, Mass., assignors to said Scanlan. Music-rack for pianos.	315,558	Apr. 14	890	916	31	152
Scantlebury, Woodman F., Brooklyn, N. Y. Horse-collar.	313,773	Mar. 10	1001	259	30	972
Scarborough, John B., Hawkinsville, Ga. Seed-drill and fertilizer-distributor.	322,976	July 28	2136	567	32	412
Schaff, Frank J. (See Chamberlain, Blanchard, assignor.)						
Scarles, Benjamin, Clinton, Mass. Manufacture of wire-cloth.	314,483	Mar. 24	1959	521	30	1166
Scatchard, Elmer E., Philadelphia, Pa. Hosiery.	317,861	May 12	1251	331	31	760
Seets, George N., Evansville, Ind. Locomotive head-light.	318,510	May 26	2112	570	31	938
See's, George N., Evansville, assignor of one-half to M. Crislie, Oakland City, Ind. Steam-boiler.	333,165	Dec. 29	2770	726	33	1519
Sceurman, Thomas L. (See Doyle and Sceurman.)						
Schaal, Eugen, Stuttgart, Württemberg, Germany. Composition for soap.	319,854	June 9	1199		31	1276
Schaal, George A. (See Henry, John J., assignor.)						
Schaar, Paul, Poesneck, Sachsen-Meiningen, Germany. Pressure-regulator for fermenting-vats.	316,491	Apr. 28	2092	{ 547 548 }	31	397
Schach, Friedrich, and W. Stelter, Sedalia, Mo. Feather-renovator.	318,039	May 19	1495	401	31	814
Schad, Bernhard. (See Smith and Schad.)						
Schadt, John J. (See Keck and Schadt.)						
Schaefer, Frederic, assignor to L. Schlegelmilch, trustee, Boston, Mass. Manufacture of filaments for incandescent lamps.	320,297	June 16	1818	493	31	1393
Schaefer, Frederic, assignor to L. Schlegelmilch, trustee, Boston, Mass. Electric switch.	322,857	July 21	1949	515	32	370
Schaefer, Hermann F. B., Berlin, Germany. Carbon battery-electrode.	318,300	May 19	1828	490	31	878
Schaefer, John C., assignor to himself and J. A. Hagmeyer, New York, N. Y. Safety-valve for beer-casks.	318,040	May 19	1496	461	31	815
Schaefer, Joseph, Jersey City, N. J. Closet for railway-cars.	320,177	June 16	1647	438	31	1363
Schaer, Arnold, Phenix, R. I. Stop-motion for railway-heads, &c.	332,289	Dec. 15	1534	402	33	1286
Schafer, Christian. (See Roberts and Schafer.)						
Schafer, Christian, assignor to C. Roberts, Three Rivers, Mich. Extension-grate for thrashing-machines.	318,142	May 19	1628	435	31	839
Schafer, John, Marine, Ill. Wire-fence post.	327,827	Oct. 6	421	109	33	74
Schäffer & Budenberg. (See Lido, Carl V., assignor.)						
Schäffer & Budenberg. (See Prismsann, Carl, assignor.)						
Schäffer & Budenberg. (See Westphal, Otto, assignor.)						
Schaffer, John, Kirkwood, Mo. Animal-trap.	313,957	Mar. 17	1268	331	30	1029
Schaffer, John, Kirkwood, Mo. Animal-trap.	314,301	Mar. 24	1714	456	30	1121
Schafhaus, Jean, New York, N. Y. Brewing-beer.	316,067	Apr. 21	1506	394	31	286
Schake, John. (See Huhn, Conrad, assignor.)						
Schanck, La Fayette, Rochester, N. Y. Ventilator.	312,903	Feb. 24	1961	536	30	735
Schandein, Emil. (See Mueller, Charles L. F., assignor.)						
Schantz, Charles, Elizabeth, N. J. Mouse-cage.	321,643	July 7	314	83	32	60
Scharaweber, William, Jefferson, Ill. Ventilator.	329,680	Nov. 3	343	87, 88	33	570
Scharaweber, William, Jefferson, assignor of one-half to G. Dorn, Chicago, Ill. Ventilator.	327,414	Sept. 29	2965	774	32	1582
Scharaweber, William, Jefferson, assignor of one-half to G. Dorn, Chicago, Ill. Window-ventilator.	327,415	Sept. 29	2967	774	32	1583
Scharpf, Frederic, assignor to C. F. Young, Rochester, N. Y. Instrument for the focal measurement of optical lenses.	327,692	Oct. 6	131	31	33	25
Scherr, Jonathan, Warwick, R. I. Washing-machine.	323,740	Aug. 4	466	132	32	610
Schartau, Eilert O., assignor of one-half to C. P. Hoskins, Philadelphia, Pa. Regenerative gas-burner.	320,087	Oct. 27	2125	550	33	407
Schaatev, Otto L., New York, N. Y. Sewing-machine.	328,216	Oct. 30	1714	446	33	328
Schauer, Florian, Chicago, Ill. Grain-stack protector.	328,071	Oct. 13	737	192	33	140
Schauman, Fridolf, Copenhagen, Denmark. Elastic rail-support.	328,616	Oct. 20	1463	381	33	281
Schaver, Simon, New York, N. Y. Confectionery.	320,003	June 16	1420	373	31	1332
Scheffer, David M., New Castle, and C. F. Martin, Evansville, Ind. Ecraseur.	326,792	Sept. 22	2123	554	32	1428
Scheffler, Theodore, Paterson, N. J. Metal-drilling tool.	314,059	Mar. 17	1327	362	30	1052
Scheibler, Carl, Berlin, Germany. Treating phosphatic slag.	312,904	Feb. 24	1962		30	735
Scheidell, John S., Philadelphia, Pa., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Delivery apparatus for printing-presses.	323,215	July 28	2465	655	32	473
Scheidler, John, Coldwater, Mich. Self-supporting roof.	332,115	Dec. 8	1295	336	33	1237
Scheidler, Reinhard, Newark, Ohio. Reversing mechanism for engines.	311,921	Feb. 10	614	170	30	471
Scheidler, Reinhard, Newark, Ohio. Valve-gear for steam-engines.	316,187	Apr. 21	1671	438	31	317
Scheidler, Reinhard, Newark, Ohio. Engine bed-plate.	333,342	Dec. 29	3014	789	33	1564
Scheidt, Gottfried, and J. A. Rohard, Toledo, Ohio. Fire-escape.	311,039	Jan. 20	1148	313	30	227
Schell, Abraham. (See Craven, Thomas C., assignor.)						
Schell, Abraham. (See Robinson, Albert S., assignor.)						
Schembler, Philipp, Pekin, Ill. Iron wheel.	315,346	Apr. 7	494	125	31	90
Schenck, Allen. (See Thomas and Schenck.)						
Schenck, John C. F., Moline, Ill. Plow.	314,600	Mar. 31	2121	565	30	1223
Schenok, Marcus P., Fulton, N. Y. Cider or wine press.	325,976	Sept. 8	1033	{ 255 256 }	32	1207
Schenck, William T. Y., San Francisco, Cal. Gasket for man-holes.	326,593	Sept. 22	1822	479	32	1374
Schenck, William T. Y., San Francisco, Cal. Manufacture of gaskets for steam-boilers.	326,594	Sept. 22	1823	480	32	1374
Schener & Brother. (See Hoeffe, Ernest W., assignor.)						
Schenkel, Nikolaus, Allegheny City, Pa. Countersink.	323,448	Aug. 4	85	25	32	538
Scherbel, Jean. (See Remus, Carl T., assignor.)						
Scherer, Matthew E., Arcadia, Ind. Flood-gate.	326,922	Sept. 22	2310	605	32	1460

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Scherff, Henry J., and C. B. Wolf, Pulaski, Ky. Excavating-machine.....	322,858	July 21	1951	{ 515 516 }	32	370
Schermerhorn, S. Bird, Paris, Mich. Stone-boat.....	320,178	June 16	1647	438	31	1364
Schermerhorn, George W., Philadelphia, Pa. Ballast for ships.....	327,724	Oct. 6	296	75	33	52
Schermerhorn, George W., Philadelphia, Pa. Ballast for boats.....	329,088	Oct. 27	2126	550	33	407
Schetzl, Marx P. (See Landgrano, Schetzl, and Willis.)						
Scheuermann, John, Cleveland, Ohio. Store-pipe thimble or sleeve.....	327,321	Sept. 29	2835	740	32	1561
Scheurman, August P., Kansas City, Mo. Exercising device for musicians.....	332,290	Dec. 15	1535	402	33	1286
Schiffing, Albert, Indianapolis, Ind. Cuff-holder.....	323,449	Aug. 4	85	25	32	530
Schild, George F., Vallejo, Cal. Attachment for maps or charts.....	323,167	Dec. 8	1309	354	33	1250
Schilling, Alexander. (See Schilling, Gustav, assignor.)						
Schilling, August, San Francisco, Cal. Roasted coffee-berries.....	312,515	Feb. 17	1461		30	635
Schilling, August, San Francisco, Cal. Roasted coffee-berries.....	312,516	Feb. 17	1461		30	635
Schilling, August M., Chicago, Ill. Lumber-drier.....	327,322	Sept. 29	2836	740	32	1561
Schilling, Gustav, Detroit, Mich. Machine for crimping and preparing elastic fabric.....	315,442	Apr. 14	1194	311	31	224
Schilling, Gustav, Detroit, Mich. assignor to A. Schilling, Chicago, Ill. Corset.....	312,900	Feb. 24	1963	536	30	735
Schilling, William, and J. Ehrenfeuchter, New Orleans, La. Hammock.....	332,948	Dec. 22	2456	650	33	1453
Schilling, John J., New York, N. Y. Apparatus for heating asphaltum, &c.....	322,323	July 14	1224	321	32	233
Schultz, John M., Philadelphia, Pa. Nail-making machine.....	327,828	Oct. 6	422	{ 169 110 }	33	74
Schimmel, Gerard W., Amsterdam, Holland. Device for picking up and affixing stamps, &c.....	319,328	June 2	479	129	31	1139
Schimper, Rudolf F. and C. F. W. Siedhof, Union Hill, N. J. Cover for culinary vessels.....	310,468	Jan. 6	326	107	30	75
Schimpf, William, assignor of one-third to O. A. Keim, Shenandoah, Pa. Circulating-boiler.....	325,977	Sept. 8	1004	256	32	1208
Schirmer, Hermann A., Milwaukee, Wis. Combined nail and screw.....	321,389	June 30	3282	677	31	1680
Schirmer, John A., assignor of one-half to H. S. Derby, East Saginaw, Mich. Net or veil.....	310,575	Apr. 28	2194	577	31	417
Schlarbaum, John C., San José, Cal. Candlestick.....	322,753	July 21	1607	476	32	344
Schlatter, Heinrich, Reutlingen, Württemberg, Germany. Centrifugal wood and paper sorting machine.....	310,469	Jan. 6	387	108	30	75
Schlegelmilch, George E., Philadelphia, Pa. Automatic time-recorder and station-indicator.....	321,317	June 30	3186	850	31	1662
Schlegelmilch, Leopold. (See Schaefer, Frederic, assignor.)						
Schleicher, Adolph W., Philadelphia, Pa. Combined gas-engine and pump.....	314,737	Mar. 31	2278	605	30	1251
Schlemmer, Oliver, Cincinnati, Ohio. Head-protector.....	321,644	July 7	315	84	32	60
Schlesinger, David, New York, N. Y. Neckscarf.....	326,251	Sept. 15	1389	361	32	1285
Schlesinger, William M., Philadelphia, Pa. Regulator for dynamo-electric machines.....	329,681	Nov. 3	344	88	33	570
Schlesinger, William M., Philadelphia, Pa. Regulator for dynamo-electric machines.....	331,552	Dec. 1	418	112	33	1074
Schlesinger, William M., Philadelphia, Pa. Electrical transmission of power.....	332,609	Dec. 8	1127	294	53	1209
Schlesman, Michael, Columbia City, Ind. Railway-crossing.....	316,576	Apr. 28	2195	578	31	417
Schlichting, Albert T., New York, N. Y. Adjustable double bedstead.....	322,645	July 21	1662	440	32	318
Schlickeyesen, Carl, Berlin, Germany. Screening apparatus.....	316,068	Apr. 21	1508	394	31	226
Schlickeyesen, Carl, Berlin, Germany. Apparatus for mixing mortar, concrete, &c.....	316,069	Apr. 21	1509	394	31	226
Schlickeyesen, Carl, and E. Breslau, Berlin, Germany, assignors to said Schlickeyesen. Sand-molding machine.....	331,553	Dec. 1	420	112	33	1074
Schlimbach, Edward, Long Island City, N. Y. Ale and beer pump.....	317,214	May 5	392	88	31	585
Schmackers, Anton, Birmingham, Ala. Sash-fastener.....	323,741	Aug. 4	467	132	32	610
Schmahl, Paul, Biberach-on-the-Riss, Württemberg, Germany. Fire-ladder.....	318,000	May 26	2317	{ 619 620 }	31	974
Schmalz, François, New York, assignor to C. V. Peyn, Brooklyn, N. Y. Manufacturing clock and watch dials.....	313,245	Mar. 3	312		30	834
Schmalz, François, assignor, by mesne assignments, to Robbins & Appleton, New York, N. Y. Transferring letters and designs to dials.....	332,678	Dec. 15	2088		33	1383
Schmalzried, George. (See Reinhardt and Ellis, assignors.)						
Schmauser, Theodore, Allegheny, Pa. Galvanic therapeutic apparatus.....	312,660	Feb. 24	1637	{ 451 452 }	30	678
Schmedlen, William H. (See O'Brien, Thomas, assignor.)						
Schmedlen, William H., assignor to Coldwater Road Cart Company, Coldwater, Mich. Two-wheeled vehicle.....	326,595	Sept. 22	1824	480	32	1374
Schmeisser, Ernst, et al. (See Foster, Thomas J., assignor.)						
Schmelz, Henry, New York, N. Y. Toilet-powder box.....	322,977	July 28	2137	567	32	412
Schmelz, William H., Baltimore, Md. Pneumatic block signal for railways.....	314,060	Mar. 17	1388	343	30	1052
Schmid, Albert, Zurich, Switzerland. Hand-pressure rotating apparatus.....	310,323	Jan. 6	219	60	30	42
Schmid, Charles J., assignor to Padan Brothers & Co., Portsmouth, Ohio. Inner sole for boots or shoes.....	318,209	May 19	1711	458	31	855
Schmid, Emil. (See Baumann, Robert, assignor.)						
Schmidt, Andrew R., Ann Arbor, Mich. Carriage-spring.....	323,535	Aug. 4	199	58	32	539
Schmidt, Charles F., Cleveland, Ohio. Roller-press.....	325,447	Sept. 1	314	76	22	1075
Schmidt, Christian A., Hoboken, N. J. Door-check.....	321,645	July 7	316	84	32	60
Schmidt, Emil, et al. (See Clinton, Fred S., assignor.)						
Schmidt, Eugene, and J. R. Kunzelman, Stillwater, Minn. Carpet stretcher and tacker.....	322,949	Dec. 22	2457	650	33	1459
Schmidt, Ferdinand C., Newark, N. J. Lock for the frames of satchels, &c.....	325,017	Aug. 25	2204	604	32	954
Schmidt, Frederick. (See Rothman and Schmidt.)						
Schmidt, Friedrich E., Brooklyn, N. Y. Cutting attachment for button-hole sewing-machine.....	322,950	Dec. 22	2458	{ 650 651 }	33	1459
Schmidt, Gottlieb, Philadelphia, Pa. Automatic fan.....	312,169	Feb. 10	971	265	30	536
Schmidt, Hugo, Chicago, Ill. Engraver's vise.....	314,610	Mar. 31	2122	566	30	1223
Schmidt, John J. G. C., New York, assignor of one-half to R. W. Beyrich, Brooklyn, N. Y. Chart for laying out patterns.....	327,725	Oct. 6	287	75, 76	33	52
Schmidt, Julius, New York, N. Y. Revolving brush.....	327,323	Sept. 29	2837	740	32	1561
Schmidt, Theodore, assignor to J. O. Shoup, R. L. Hughes, and H. H. Laubach, Dayton, Ohio. Paper package-box. (Reissue.)	10,607	June 2	629	169	31	1108
Schmidtthorn, Theodore, Jersey City, N. J., assignor to himself and H. H. Harush, New York, N. Y. Making ammonium chloride.....	330,155	Nov. 10	990		33	701
Schmitt, Adam, New Orleans, La. Oil compound for leather.....	329,960	Nov. 10	728		33	648
Schmitt, George, New York, N. Y. Extension-table.....	333,341	Dec. 29	3013	789	33	1344
Schmitt, John, and J. P. Huber, St. Louis, Mo. Coffee roaster and cleaner.....	322,646	July 21	1663	440	32	318
Schmitt, John J., and M. W. Dougherty, said Dougherty assignor to T. Malaskey, Weston, Vt. Writing-desk.....	319,133	June 2	247	65	31	1093
Schmitt, Louis, Providence, R. I. Truss.....	329,692	Nov. 3	346	88	33	570
Schmitt, Philip L., assignor to Peerless Oil Ejector Company, Quincy, Ill. Lubricator.....	320,703	June 23	2308	634	31	1769
Schmitt, Philip L., assignor to Peerless Oil Ejector Company, Quincy, Ill. Lubricator.....	320,704	June 23	2309	635	31	1769
Schmitz, Albert, Essen-on-the-Rhine, assignor to W. Raydt, Hanover, Prussia, Germany. Manufacture of ice and apparatus therefor.....	328,523	Oct. 20	1322	343	33	257
Schmitz, Ernst, assignor to G. B. Schoonmaker and R. H. Dalzell, Chicago, Ill. Closure for bottles, cans, &c.....	330,428	Nov. 17	1354	361	33	779

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Schmuck, Solomon. (See Hunger, Friedrich assignor.)						
Schmuck, Solomon, <i>et al.</i> (See Mead, Birdsall H., assignor.)						
Schmucker, William Y., Reading, Pa. Ink-grinder	313,246	Mar. 3	313	78	30	834
Schmueser, Charles W., Will's Creek, Ohio. Windlass water-elevator bucket	314,061	Mar. 17	1392	363	30	1053
Schnabel, Samuel W., Mayview, Mo. Safety-flue for chimneys	318,301	May 19	1830	490	31	878
Schnabl, Leopold, Vienna, Austria-Hungary. Metallic packing-ring	316,188	Apr. 21	1673	438 439	31	317
Schneck, Eli J., <i>et al.</i> (See Donecker, Orin C., assignor.)						
Schneck, George W., <i>et al.</i> (See Schneck, Henry P., assignor.)						
Schneck, Gustav, Jersey City, N. J., assignor to L. Pattberg & Brothers, New York, N. Y. Stereoscope	318,302	May 19	1831	470	31	878
Schneck, Henry P., deceased. S. R. Schneck, administratrix and assignor to G. Holzbog and G. W. Schneck, Jeffersonville, Ind. Adjustable folding table and ironing-board support	315,665	Apr. 14	953	250	31	178
Schneck, Sophia R., administratrix. (See Schneck, Henry P.)						
Schneider, Carl H., assignor to Buhl & Keller, Freiburg, Germany. Apparatus for producing ammonia	325,771	Sept. 8	748	157 158	32	1160
Schneider, George F., Chicago, Ill. Folding lunch-box	313,538	Mar. 10	696	170	30	914
Schneider, Hippolyte, Pittsburgh, Pa. Velocipede	319,329	June 2	480	133	31	1139
Schneider, Hugo, Cleveland, Ohio. Rotary water-meter	319,134	June 2	248	65	31	1093
Schneider, Jacob, New York, N. Y. Bronzing-machine	311,612	Feb. 3	204	57, 58	30	387
Schneider, John B., St. Jacob, Ill. Dinner-bucket	319,932	June 9	1314	346	31	1296
Schneider, Max, Doss, Bavaria, Germany. Lubricating-valve	311,379	Jan. 27	1644	449	30	323
Schneider, Paul, and H. Treunkamp, Cleveland, Ohio. Vapor-burner	318,303	May 19	1831	491	31	878
Schneider, Paul, and H. Treunkamp, Cleveland, Ohio. Vapor-burner	318,304	May 19	1833	491	31	878
Schneiderlochner, Frank. (See Hatter, Victor, assignor.)						
Schnell, Adam, assignor of two-thirds to W. A. Barclift and J. L. Echols, Hartsell's, Ala. Bed-rail fastener	332,442	Dec. 15	1746	456	33	1323
Schnitzlein, Friedrich, Munich, Bavaria, Germany. Safety-brake for elevators	316,577	Apr. 28	2196	578	31	417
Schoch, Caspar, Truckee, Cal. Pein-holder	312,517	Feb. 17	1462	400	30	635
Schoellkopf Aniline and Chemical Company. (See Vollbrecht and Mensching, assignors.)						
Schoellkopf, William C. F., Cleveland, Ohio. Oil-can	321,537	July 7	183	48	32	36
Schoen, Charles A., assignor of one-half to A. Olander, Minneapolis, Minn. Straw-carrier for thrashing-machines	312,661	Feb. 24	1642	452	30	679
Schoen, Georg, New York, N. Y. Trimming attachment for sewing-machines	322,326	July 14	1225	322	32	233
Schoenberg, Gabriel N., Boulogne, France. Drop-hammer	318,305	May 19	1833	492 493 494	31	879
Schoendelen, William, Davenport, Iowa. Grease-cup	314,062	Mar. 17	1392	363	30	1053
Schoenhof, Jacob, New York, N. Y. Pannier and bustle	312,518	Feb. 17	1463	401 400	30	635
Schoenike, Gustav A., Lebanon, Wis. Spoke-extractor	319,512	June 9	737	178	31	1193
Schoening, Herman, Antwerp, Belgium. Apparatus for taking soundings	327,726	Oct. 6	298	76	34	52
Schoenleber, Conrad, Rochester, N. Y. Lathe for turning irregular forms	316,835	Apr. 28	2,668	672	31	466
Schoettle, Ferdinand, Philadelphia, Pa. Paper-box machine	326,338	Sept. 15	1504	372	32	1308
Schofield, Charles, Minneapolis, Minn. Plumb-level	320,506	June 23	2143	565	31	1461
Schofield, Peter, Pomona, N. J. Funct.	320,705	June 23	2400	565	31	1500
Schofield, Richard, and G. D. Wilson, assignors of one-third to J. Penman, Paris, Ontario, Canada. Knitting-machine	322,978	July 28	2132	568	32	412
Schofield, Silas C., Freeport, Ill. Grinding-mill	310,916	Jan. 30	972	264	30	194
Schofield, Silas C., Freeport, Ill. Corn-sheller	318,041	May 19	1497	402	31	815
Schofield, William, Philadelphia, Pa. Shaft coupler	317,965	May 12	1375	369	31	785
Scholing, William. (See Amdt, Theophilus, assignor.)						
Scholl, Martin, Jr. (See Howe, Edward, assignor.)						
Scholle, Carl, New York, N. Y. Striking mechanism for time-pieces	315,843	Apr. 14	1195	311 312	31	224
Scholle, Henry E. (See Wirtz and Scholle.)						
Scholler, Gustavus F. (See Braunfeld, Henry E., assignor.)						
Schollhorn & Co., William. (See Schollhorn, William, assignor.)						
Schollhorn, William, New Haven, Conn., assignor to W. Schollhorn & Co. Coach-latch	314,611	Mar. 31	2123	566	30	1223
Schollhorn, William, New Haven, Conn., assignor to W. Schollhorn & Co. Shears	314,729	Mar. 31	2221	606	30	1251
Scholz, Charles, Chicago, Ill. Grip for cable railways	325,633	Sept. 1	551	140	32	1120
Schombel, Fritz, Chicago, Ill. Coffee and tea box	317,678	May 12	1006	261	31	714
Schön, Christian A. W. (See Lennig, Georges, assignor.)						
Schoof Furnishing Company. (See Conner, William P., assignor.)						
Schooler, Lewis. (See Talbot, Jesse H., assignor.)						
Schoonmaker, Edward T., assignor of one-half to J. E. Smith, New York, N. Y. Electric-wire insulator	321,646	July 7	317	84	32	61
Schoonmaker, George B., <i>et al.</i> (See Schmitz, Ernst, assignor.)						
Schopf, Eli, <i>et al.</i> (See Toliver, George E., assignor.)						
Schorb, Carrie L., <i>et al.</i> (See Schorb, John M., Jr., assignor.)						
Schorb, John M., Jr., assignor to C. L. Schorb, Plainfield, N. J., and J. I. Holly, New York, N. Y. Cap for carriage-axles	327,727	Oct. 6	299	76	33	52
Schoth, Gustave A., Euston Road, county of Middlesex, England. Apparatus for mixing air and combustible vapor	325,452	Sept. 1	320	77	32	1076
Schott Button Hole Attachment Company. (See Schott, William, assignor.)						
Schott, William, New York, N. Y., assignor to Schott Button Hole Attachment Company, of New York. Button-hole attachment for sewing-machines	310,915	Jan. 20	967	263 264	30	193
Schott, William, assignor to Wiggers & Froelich, New York, N. Y. Jewel-box	312,766	Feb. 24	1781	491	30	704
Schrabetz, Emil, Vienna, Austria-Hungary. Gas-governor for gas-engines	312,906	Feb. 24	1964	537	30	735
Schrack, Christian H., New York, N. Y. Strainer for sinks	333,343	Dec. 29	3015	789	33	1564
Schrack, Samuel B., <i>et al.</i> (See Loe, Henry C., assignor.)						
Schrader, Conrad, and F. W. Kittler, Milwaukee, Wis. Fire-escape	317,862	May 12	1252	332	31	760
Schrader, John C. (See Penniman, Russell S., assignor.)						
Schrader, John C. (See Penniman and Schrader.)						
Schrader, John C., McCainville, N. J., assignor of one-half to R. S. Penniman, Jenkintown, Pa. Explosive compound	333,344	Dec. 29	3016		33	1564
Schrader, John C., McCainville, N. J., assignor of one-half to R. S. Penniman, Jenkintown, Pa. Making explosive compounds	333,345	Dec. 29	3018		33	1564
Schrader, John C., McCainville, N. J., assignor of one-half to R. S. Penniman, Jenkintown, Pa. Dynamite	333,346	Dec. 29	3019		33	1564
Schrader, John C., McCainville, N. J., assignor of one-half to R. S. Penniman, Jenkintown, Pa. Dynamite	333,347	Dec. 29	3020		33	1564
Schrader, John C., McCainville, N. J., assignor of one-half to R. S. Penniman, Jenkintown, Pa. Dynamite and making the same	333,348	Dec. 29	3022		33	1564

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Schrader, Otto, Alameda, Cal. Safety-bridle.	322,012	July 14	896	216	32	159
Schramm, Franz A., Philadelphia, Pa. Pipe-wrench.	329,221	Oct. 27	2313	509	33	442
Schray, Fredrick, assignor to Buchanan Manufacturing Company, Buchanan, Mich. Folding cabinet-bed.	319,135	June 2	249	65	31	1093
Schray, Frederick, assignor to Buchanan Manufacturing Company, Buchanan, Mich. Folding bed.	320,298	June 10	1820	483	31	1393
Schrock, John E., New York, N. Y. Mold for making perforated glass plates.	315,172	Apr. 7	258	62	31	47
Schrock, John E., New York, N. Y. Perforated glass plate for making medicinal tablets.	315,173	Apr. 7	259	63	31	47
Schreiber, Charles C., Cincinnati, Ohio. Fire-proof shutter.	320,974	June 30	2756	733	31	1562
Schreiber, Charles C., assignor to L. Schreiber & Sons Company, Cincinnati, Ohio. Metallic door-sill.	324,732	Aug. 18	1608	500	32	875
Schreiber, Gerhard, Chemnitz, assignor to Direction der Patentpapierfabrik zu Penig, Penig, Saxony, Germany. Manufacturing safety-paper for checks, &c.	322,130	July 14	987		32	188
Schreiber, Gerhard, Chemnitz, assignor to Direction der Patentpapierfabrik zu Penig, Penig, Saxony, Germany. Manufacturing safety-paper for checks, &c.	322,131	July 14	988		32	189
Schreiber & Sons Company, L. (See Schreiber, Charles C., assignor.)						
Schrimpf, Karl. (See Fuchs, Ernst, assignor.)						
Schrimshaw, James R., Brooklyn, N. Y. Apparatus for mixing gas and air.	325,448	Sept. 1	316	76	32	1075
Schroek, Amos, Chicago, Ill. Sofa-bed.	324,490	Aug. 18	1475	404	32	812
Schroek, Amos, Chicago, Ill. Sofa-bed.	323,010	Dec. 8	1128	295	33	1209
Schroder, Friedrich, New York, N. Y. Breastpin.	325,117	Aug. 25	2328	640	32	979
Schrofer, John, Tama City, Iowa. Harness-buckle.	324,733	Aug. 18	1809	500	32	875
Schrofler, John B., Cincinnati, Ohio. Lock-bolt for doors.	313,888	Mar. 17	1164	303	30	1010
Schroder, John B., Cincinnati, Ohio. Sash-pulley.	315,347	Apr. 7	495	125	31	91
Schroeder, Emil, San Francisco, Cal. Graining skins.	319,136	June 2	251		31	1093
Schroeder, Ernest C., Itaska, Ill. Combined potato marker, tiller, and digger.	316,403	Apr. 21	1957	516	31	367
Schroeder, George G., assignor of one-half to E. Steinem, Washington, D. C. Detachable horsehoe.	322,398	July 14	1326	345	32	222
Schroeder, Rudolph, New York, N. Y. Floor-covering.	318,661	May 26	2330	690	31	975
Schroeder, William S., Chicago, Ill. Car-axle box.	323,216	July 28	2466	655	32	473
Schroyer, Ernst W. R., Hamburg, Germany. Topical remedy.	318,662	May 26	2331		31	975
Schroyer, Stephen, assignor of one-half to A. Woodward, Pottstown, Pa. Car-coupling.	310,854	Jan. 13	884	239	30	173
Schryver, Augustus L., New York, N. Y. Lamp.	323,450	Aug. 4	86	25	32	538
Schryver, Washington I., Prophetstown, Ill. Wagon-jack.	320,089	Oct. 27	2127	551	33	408
Schubert, William J., et al. (See Freamer and Golding, assignors.)						
Schuchardt, Emil, New York, N. Y. Distance-register for vehicles.	318,511	May 26	2113	570	31	938
Schueler, Frederick, La Salle, Ill. Cut-off.	325,449	Sept. 1	318	77	32	1076
Schueler, Ernst, Columbus, Ohio. Educational toy.	322,754	July 21	1807	477	32	344
Schuetto, George, Manitowoc, Wis. Cheese-press.	321,857	July 7	624	160	32	114
Schuetto, H. George, Manitowoc, Wis. Street-lamp.	310,728	Jan. 13	730	109	30	144
Schuetto, H. George, Manitowoc, Wis. Street-lamp.	317,215	May 5	353	98	31	565
Schuetz, Charles, Newark, N. J. Watch-case.	312,907	Feb. 24	1965	537	30	735
Schuh, William H., Wayland, Mich. Thermostat.	327,324	Sept. 29	2839	741	32	1569
Schuhmann, George, Reading, Pa. Valve for engines.	315,844	Apr. 14	1199	319	31	224
Schuhmann, George, Reading, Pa. Cut-off-valve gear.	321,538	July 7	124	49	32	36
Schulte, Anthony, assignor to J. W. Branch, St. Louis, Mo. Earth-anger blade.	331,006	Nov. 24	2006	567	33	927
Schulte, Diedrich, assignor of one-half to R. Voeth, Pittsburg, Kans. Hog-cholera remedy.	314,545	Mar. 24	2038		30	1120
Schulte, John, Minneapolis, Minn. Bustle.	333,260	Dec. 29	2906	760	33	1544
Schulter, Georg. (See Hoeft and Schuler.)						
Schulteis, John G., San Francisco, Cal. Glass case for clocks, &c.	325,866	Sept. 8	871	219	32	1183
Schultz, Adam, Cincinnati, Ohio. Beer-keg washer.	318,306	May 19	1844	495	31	879
Schultz, Adam, Cincinnati, Ohio. Malt-drier.	325,018	Aug. 25	2205	604	32	954
Schultz, Carl H. (See Malmström and Dummer, assignors.)						
Schultz, Fred J. (See Edwards and Schultz.)						
Schultz, Herman. (See Hurst and Schultz.)						
Schultz, Johann J. H., Hamburg, Germany. Corking-machine.	319,138	June 2	252	66	31	1094
Schultz, Julius, Hamburg, Germany. Coffee-hulling machine.	312,767	Feb. 24	1782	491	30	704
Schultz, Louis, New York, N. Y. Mechanical movement.	330,156	Nov. 10	991	258	33	701
Schultz, William, La Porte, Ind. Apparatus for opening and closing gates.	313,688	Mar. 10	876	228	30	950
Schulz, Charles, Cleveland, Ohio. Rolling-mill.	327,728	Oct. 6	300	76, 77	33	52
Schulz, George, Toledo, Ohio. Knock-down closet.	319,137	June 2	251	65	31	1093
Schulz, Henry A., Brooklyn, N. Y. Combined truss and supporter.	334,443	Dec. 15	1746	456	33	1323
Schulz, Robert, Dresden, Saxony, Germany. Petroleum heating apparatus.	331,161	Nov. 24	2307	625	33	966
Schulze, Carl L., Berlin, Germany. Car-coupling.	322,979	July 28	2139	568	32	413
Schulze, Charles T., Cincinnati, Ohio. Elevator hatch-gate.	322,485	July 21	1457	363	32	221
Schulze, Ernst, Amsterdam, Holland. Machine for slicing sugar-cane.	322,742	Aug. 4	468	133	32	611
Schulze-Berge, Hermann, Rochester, Pa. Screw-propeller.	317,562	May 12	890	226	31	691
Schulze-Berge, Hermann, Rochester, Pa. Road-engine.	317,583	May 12	891	226	31	691
Schulze-Berge, Hermann, Rochester, Pa. Device for converting motion.	317,584	May 12	893	226	31	691
Schulze-Berge, Hermann, Rochester, Pa. Gearing.	319,513	June 9	738	198	31	1194
Schulze-Berge, Hermann, Rochester, Pa. Gear-cutter.	320,179	June 16	1648	439	31	1364
Schulze-Berge, Hermann, Rochester, Pa. Mechanical movement.	320,706	June 23	2401	635	31	1510
Schulze-Berge, Hermann, Rochester, Pa. Apparatus for containing and transferring molten metal.	329,491	Nov. 3	90	24	33	522
Schulze-Berge, Hermann, Rochester, assignor to himself and J. H. Lippincott, Pittsburg, Pa. Machine for printing on glassware.	316,636	Apr. 28	2570	672	31	426
Schulze-Berge, Hermann, Rochester, Pa., assignor to H. W. Oliver, Jr., and J. P. Witherow. Converter.	316,637	Apr. 28	2577	674	31	427
Schumacher, William. (See Ferguson, Schumacher, and Tubman.)						
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Manufacture of starch.	316,404	Apr. 21	1959	516	31	367
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Manufacture of starch.	316,405	Apr. 21	1962	517	31	367
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Treating and preparing starch.	316,406	Apr. 21	1964	517	31	368
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Preparing and treating starch.	318,307	May 19	1847	496	31	880
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Manufacture of starch.	318,308	May 19	1849	496	31	880
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Manufacture of grape-sugar and glucose.	318,309	May 19	1851	497	31	880
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Manufacture of starch.	320,400	June 16	2003		31	1427
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Preparing and treating starch.	320,401	June 16	2004		31	1427
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Manufacture of starch.	320,402	June 16	2006		31	1428
Schuman, John C., Akron, assignor to W. T. Jebb, Buffalo, N. Y. Manufacture of grape-sugar and glucose.	320,403	June 16	2007		31	1428

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Schumann, Carl. (See Wilkomm and Schumann.)						
Schumann, Francis, assignor of one-half to W. D. Haven, Trenton, N. J. Steam-engine governor	318,663	May 26	2321	{ 020 021 }	31	975
Schumann, Henry H., Troy, Pa. Ladder	317,024	May 5	124	31	31	545
Schumann, Henry H., assignor of one-third to C. Muth, Troy, Pa. Ladder	319,330	June 2	462	130	31	1140
Schumann, Henry H., assignor of one-third to C. Muth, Troy, Pa. Ladder	322,980	July 28	2140	568	32	413
Schumann, Henry H., and C. Muth, Troy, Pa.; said Schumann assignor to said Muth. Beeve-trough	316,578	Apr. 28	2108	572	31	417
Schumann, Hugo, Leipsic, Germany. Profile-cutting machine	324,491	Aug. 18	1477	{ 404 405 }	32	812
Schumann, Otto F., Brooklyn, N. Y. Curtain pole and fixture	320,094	June 16	1540	407	31	1345
Schupp, Fred. J., Marshall, Mo. Conveyor for flour-bolts and middlings-purifiers	320,707	June 23	2403	636	31	1510
Schupp, Fred. J., Marshall, Mo. Bolt-tightener	329,492	Nov. 3	92	24	33	523
Schupp, Fred. J., Marshall, Mo. Car-coupling	329,493	Nov. 3	93	25	33	523
Schürmann, Gustav A., New York, N. Y. Backing for books	321,142	June 30	2273	7-7	31	1621
Schnuster, George P., assignor to Crescent Manufacturing Company, St. Louis, Mo. Darb-wire machine	322,981	July 28	2141	568	32	413
Schnuster, Karl J., Cleveland, Ohio. Dash-board for vehicles	313,850	Mar. 17	1105	303	30	1010
Schnuster, Rudolph, Waldeck, Tex. Hilling-plow	310,855	Jan. 13	8-5	229	30	173
Schnuster, Wilhelm, Modford, Wis. Stump-puller	322,720	Oct. 20	1607	418	33	307
Schutte, Louis, Philadelphia, Pa. Steam-jet apparatus	312,170	Feb. 10	972	265	30	536
Schutte, Louis, Philadelphia, Pa. Check-valve	328,979	Oct. 27	1967	511	33	380
Schutte, Louis, Philadelphia, Pa. Steam-jet condenser	330,157	Nov. 10	991	258	33	701
Schutz, Adolph C. (See Borgfeldt and Schutz.)						
Schuyler, Daniel A., New York, N. Y., assignor to Schuyler Electric Light Company of New York. Armature for dynamo-electric machines	318,664	May 26	2323	021	31	975
Schuyler Electric Light Company. (See Lemp, Hermann, assignor.)						
Schuyler Electric Light Company. (See Mott, Samuel D., assignor.)						
Schuyler Electric Light Company. (See Pfannkuche, Gustav, assignor.)						
Schuyler Electric Light Company. (See Waterhouse, Addison G., assignor.)						
Schuyler Electric Light Company of New York. (See Schuyler, Daniel A., assignor.)						
Schuyler, William D., New York, N. Y. Automatic seal-trap for wash-basins and water-closets	320,708	June 23	2404	{ 636 637 }	31	1510
Schwaab, Lawrence, New York, N. Y. Horseshoe	323,601	Aug. 4	288	83	32	575
Schwab, Nathan, New York, N. Y. Gas-trap cover for wash-basins	324,492	Aug. 18	1479	405	32	812
Schwabe, Carl G. (See Kürschner, Edmund, assignor.)						
Schwalen, Nicholas G., Minneapolis, Minn. Hame	314,063	Mar. 17	1373	364	30	1053
Schwamb, Peter. (See Fisher and Schwamb.)						
Schwaner, Christian C. (See Bollinger and Schwaner.)						
Schwaner, Christian C., Winterset, Iowa. Hame-tug	321,253	June 30	3109	827	31	1646
Schwaner, Christian C., Winterset, Iowa. Show-rack for harness	331,827	Dec. 8	864	{ 221 222 }	33	1160
Schwartz, Charles, Brooklyn, N. Y. Embossing plastic material	332,444	Dec. 15	1747	456	33	1323
Schwartz, Charles O., Milwaukee, Wis. Oil-stove	329,598	Nov. 3	239	62	33	551
Schwartz, John. (See Schwartz, William and J.)						
Schwartz, John F., Alma, Mich. Two-wheeled vehicle	318,807	May 26	2321	673	31	1009
Schwartz, Moses, et al. (See Stitzel, Frederick, assignor.)						
Schwartz, William, Louisburg, Kans. Foot-water heater	313,890	Mar. 17	1165	373	30	1010
Schwartz, William and J., Lake Prairie, Minn. Rattle-rake for thrashing-machines	318,310	May 19	1853	497	31	880
Schwarz, August, Jersey City, N. J. Washing-machine	327,024	Sept. 29	2443	638	32	1491
Schwarz, Christoph M., Edwardsville, Ill. Clarifying and evaporating pan	333,176	Dec. 29	2771	796	33	1519
Schwarzenboelzer, Paul, Buffalo, N. Y. Paring and slicing device	323,451	Aug. 4	87	25	32	538
Schwarzchild, August, and N. Greenfield, New York, N. Y. Confectionery	315,559	Apr. 14	882	216	31	153
Schwarzwald, Gustav, assignor of two-fifths to H. Newman, New York, N. Y. Machine for making floor-cloths, &c., in various colors	328,524	Oct. 20	1323	344	33	257
Schwarzwald, Gustav, assignor of two-fifths to H. Newman, New York, N. Y. Manufacture of floor-cloth, &c.	322,841	Dec. 22	2301		33	1430
Schweickert, Johannes. (See Fuchs and Schweickert.)						
Schweickhard, Daniel, Batavia, N. Y. Fence-post	322,072	July 14	910	236	32	174
Schweinfurt, Augustus, Philadelphia, Pa. Bolt for door-locks	327,224	Nov. 3	95	25	33	523
Schweitzer, George F., Lincoln, Neb. Tanning	328,978	Oct. 27	1965		33	380
Schweitzer, Julius, New York, N. Y. Extract of meat	326,793	Sept. 22	2133		32	1428
Schweizer, Charles. (See Underwood and Schweizer.)						
Schwenk, Henry. (See Rudolph and Schwenk.)						
Schwerin, Morris, Newark, N. J. Double-acting lock	313,113	Mar. 3	99	25	30	795
Schwerin, Morris, Newark, N. J. Bag or satchel	325,978	Sept. 8	1005	256	32	1208
Schwerin, Morris, Newark, N. J. Caster	326,159	Sept. 15	1251	320	32	1260
Schwickert, August, W., and E., Höchst-on-the-Main, Germany. Spring-propelled carriage	322,071	July 14	909	{ 235 236 }	32	174
Schwickert, Eduard. (See Schwickert, August, W., and E.)						
Schwickert, Wilhelm. (See Schwickert, August, W., and E.)						
Schwiebert, Jean, Barmon, Prussia, Germany. Hair-curling pin	317,216	May 5	394	98	31	505
Schwind, Peter, Le Mars, Iowa. Bitters	327,023	Oct. 6	134		33	25
Schwittler, Anton, Brooklyn, N. Y. Rose-engine	314,064	Mar. 17	1374	364	30	1053
Scotfield, Charles H., Utica, N. Y. Adjustable camera and box combined	329,599	Nov. 3	241	63	33	551
Scotfield, Levi, assignor to Challenge Corn Planter Company, Grand Haven, Mich. Corn-planter	313,891	Mar. 17	1166	304	30	1011
Scotfield, Levi, assignor to Challenge Corn Planter Company, Grand Haven, Mich. Check-row attachment for corn-planters	318,042	May 19	1499	{ 402 403 }	31	815
Scotfield, Levi, assignor to Challenge Corn Planter Company, Grand Haven, Mich. Corn-planter	318,512	May 26	2116	571	31	939
Scotfield, Levi, assignor to Challenge Corn Planter Company, Grand Haven, Mich. Corn-planter	319,331	June 2	483	{ 120 131 }	31	1140
Scotfield, Levi T., Cleveland, Ohio, assignor to Hydraulic Elevator Company, Chicago, Ill. Valve-operating mechanism	327,217	May 5	394	99	31	595
Scotfield, Silas A., Morenci, Mich. Hand embroidery-machine	321,318	June 30	3188	850	31	1662
Soellay, John A., Brooklyn, N. Y. Radiator-valve	313,892	Mar. 17	1168	304	30	1011
Soellay, John P., Lawrence, Mass. Harness-buckle shield	330,429	Nov. 17	1356	361	33	779
Scotland, James, and F. Cordon, St. Pierre, near the Islands of Miquelon, France. Marine's compass	310,729	Jan. 13	731	199	30	145
Scott, Alexander, Cronly, N. C. Fiber-rubbing machine	315,666	Apr. 14	965	2-0	31	178
Scott, Alphens W. (See Kindelberger, Jefferson, assignor.)						
Scott, Amos S. (See Scott, John and A. S.)						
Scott, Arthur E., Lone Grove, Tex. Seed-planter	318,311	May 19	1854	497	31	881

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Scott, Charles A., assignor of one-third to W. H. Emery, Oceanic, N. J. Horseshoe	310,749	June 9	1049	278	31	1250
Scott, Edwin M. (See Lewis and Scott.)						
Scott, Erastus W., Wauregan, Conn. Whip-socket	312,768	Feb. 24	1783	492	30	704
Scott, Erastus W., Wauregan, Conn. Whip-socket	323,452	Aug. 4	87	28	32	538
Scott, Ernest. (See Hilder and Scott.)						
Scott, George, Montreal, Quebec, Canada. Mangle	316,838	Apr. 28	2579	674	31	487
Scott, George B., Brooklyn, N. Y. Electro-magnetic escapement apparatus for printing-telegraphs	320,975	June 30	2758	733	31	1582
Scott, George B., Brooklyn, assignor to Western Union Telegraph Company, New York, N. Y. Printing-telegraph	319,855	June 9	1199	317	31	1276
Scott, George B., Brooklyn, assignor to Western Union Telegraph Company, New York, N. Y. Printing-telegraph transmitter	321,858	July 7	625	161	32	114
Scott, George R., Washington, D. C. Pipe-joint	332,754	Dec. 22	2200	580	33	1411
Scott, Gerard C., Bradford, Pa. Sheet-music holder	331,554	Dec. 1	422	113	33	1074
Scott, Gerard C., Bradford, Pa. Back for sheet-music	331,555	Dec. 1	423	113	33	1074
Scott, Harry M. (See Benedict and Scott.)						
Scott, Hattie, Detroit, Mich. Slate-pencil sharpener	328,256	Oct. 13	968	252	33	184
Scott, Horace, et al. (See Hazelrigg, Jacob, and Hood, assignors.)						
Scott, Jairus H. (See Bowie, William S., assignor.)						
Scott, James, et al. (See Martin, William F., assignor.)						
Scott, James, Denver, Colo. Apparatus for flushing sewers, water-pipes, &c.	317,025	May 5	124	32	31	545
Scott, James and P., Brooksville, Ala. Shovel-plow	332,563	Dec. 15	1920	502	33	1353
Scott, James A., assignor to F. H. Benton, New Haven, Conn. Paper box	332,951	Dec. 22	2460	651	33	1460
Scott, James O., assignor of one-half to F. L. Dilley, Tyler, Tex. Car-axle box	319,514	June 9	740	108	31	1194
Scott, James P., assignor to American Artificial Stone Pavement Company, (limited,) Philadelphia, Pa. Manufacture of composite pavement	318,043	May 19	1501		31	815
Scott, James R., et al. (See Pennington, Charles A., assignor.)						
Scott, Jeremiah F., assignor of three-fourths to J. N. Humphrey and P. W. Lorenz, Jefferson City, and J. McGuire, Fulton, Mo. Car-coupling	313,378	Mar. 3	476	{ 124 125 }	{ 30 30 }	{ 865 865 }
Scott, John. (See Judd, Henry, assignor.)						
Scott, John, Willimantic, Conn. Governor for steam-engines	320,004	June 16	1421	373	31	1322
Scott, John, Willimantic, Conn. Governor	320,005	June 16	1423	374	31	1323
Scott, John and A. S. Calhoun township, Chester county, Pa. Vehicle-shaft	312,021	Feb. 10	768	209	30	498
Scott, John R. (See Gerwen, William, assignor.)						
Scott, John R., assignor of one-half to W. Gerwen, Chicago, Ill. Latch	315,845	Apr. 14	1200	313	31	224
Scott, John W. (See Carter, David W., assignor.)						
Scott, L. Herbert, Newark, assignor to L. A. Sayre, Madison, N. J. Machine for paring apples	319,332	June 2	486	131	31	1140
Scott, Lanphear H., Newark, N. J. Ice-creeper	329,496	Nov. 3	98	26	33	524
Scott, Lanphear H., Newark, N. J. Peach-paring machine	331,451	Dec. 1	280	76	33	1048
Scott, Merritt B., Hartford, Conn. Collar-button	322,721	Oct. 20	1609	419	33	308
Scott, Orla J., assignor of two-thirds to E. Scott and J. H. Hill, Carthage, Ind. Automatic gate	323,888	Aug. 4	640	184	32	646
Scott, Patrick. (See Scott, James and P.)						
Scott, R. I. (See Eason, George L., assignor.)						
Scott, Robert P. (See Starr, Henry N., assignor.)						
Scott, Robert P., Baltimore, Md. Pencil-clasp	312,296	Feb. 17	1154	315	30	578
Scott, Samuel C., Brooklyn, N. Y. Button	314,012	Mar. 31	2124	566	30	1223
Scott, Samuel C., Brooklyn, N. Y. Sleeve-button	314,013	Mar. 31	2125	576	30	1223
Scott, Thomas E., Utica, N. Y. Drawers-support	329,961	Nov. 10	728	176	33	648
Scott, Walter. (See Fay and Scott.)						
Scott, Walter, Plainfield, N. J. Printing-machine	312,022	Feb. 10	767	209	30	498
Scott, Walter, Plainfield, N. J. Printing-machine	312,389	Feb. 17	1272	351	30	601
Scott, Walter, Plainfield, N. J. Chromatic-printing machine	312,769	Feb. 24	1784	492	30	704
Scott, Walter, Plainfield, N. J. Sheet-delivery apparatus for printing-presses	310,189	Apr. 21	1674	439	31	318
Scott, Walter, Plainfield, N. J. Delivery apparatus for printing-presses	316,685	Apr. 28	2307	606	31	438
Scott, Walter, Plainfield, N. J. Delivery apparatus for printing-machines	317,218	May 5	395	99	31	525
Scott, Walter, Plainfield, N. J. Printing-machine	317,079	May 12	1006	261	31	714
Scott, Walter, Plainfield, N. J. Sheet-delivery mechanism for printing-machines	318,143	May 19	1629	435	31	839
Scott, Walter, Plainfield, N. J. Delivery mechanism for printing-machines	318,808	May 26	2523	{ 673 674 }	{ 31 31 }	{ 1009 1009 }
Scott, Walter, Plainfield, N. J. Cylinder printing-machine	321,539	July 7	185	49	39	37
Scott, Walter, Plainfield, N. J. Cylinder printing-machine	322,132	July 14	988	{ 257 258 }	{ 32 32 }	{ 189 189 }
Scott, Walter, Plainfield, N. J. Sheet-delivery mechanism for printing-machines	325,118	Aug. 25	2329	641	32	979
Scott, Walter, Plainfield, N. J. Dampening machine for printing-presses	325,867	Sept. 8	873	220	32	1183
Scott, Walter, Plainfield, N. J. Mechanism for superimposing and folding sheets	331,091	Nov. 24	2201	596	33	947
Scott, Walter, Hoosick Falls, N. Y. Pawl-and-ratchet mechanism	330,931	Nov. 24	2005	541	33	910
Scott, William, Malden, Mass. Valve and operating mechanism for valves. (Reissue)	10,653	Oct. 20	1850	453	33	353
Scott, William, Malden, Mass. Valve for water-closets	331,556	Dec. 1	423	113	33	1074
Scott, William, Malden, Mass. Valve for water-closets	331,557	Dec. 1	428	{ 113 114 }	{ 33 33 }	{ 1075 1075 }
Scott, William, Malden, Mass. Valve for water-closets	331,558	Dec. 1	433	114	33	1075
Scott, William A., Jr., Pittsburg, Pa. Thill-coupling	332,952	Dec. 22	2461	651	33	1460
Scovill, George W. and L. A., Circleville, Ohio. Reflector	330,742	Nov. 17	1752	{ 471 472 }	{ 33 33 }	{ 856 856 }
Scovill, Lyman A. (See Scovill, George W. and L. A.)						
Scovill, George W., assignor of one-half to C. Wondries, Jr., Chicago, Ill. Pneumatic motor	330,265	Nov. 10	1124	299	33	729
Scovill Manufacturing Company. (See Hyde, Theophilus R., Jr., assignor.)						
Scovill Manufacturing Company. (See Lines, John, assignor.)						
Scovill Manufacturing Company. (See Morris, Marion A., assignor.)						
Scovill Manufacturing Company. (See Manger, Joseph, assignor.)						
Scovill Manufacturing Company. (See Ripley, George H., assignor.)						
Scovill Manufacturing Company. (See Russell, Sterne, assignor.)						
Scovill Manufacturing Company. (See Shipley, Alfred J., assignor.)						
Scovill Manufacturing Company. (See Spruce, James, assignor.)						
Scovill Manufacturing Company. (See Spruce and Comstock, assignors.)						
Scovill Manufacturing Company. (See Spruce and Tombs, assignors.)						
Scoville, Elijah U., Manlius, N. Y. Fanecet	322,129	July 14	986	257	32	188
Scoville, Hiram H. (See Koneman and Scoville.)						
Serafford, Frank M., Seneca, Kans. Device for catching hogs	328,817	Oct. 20	1715	446	33	329
Scribner, Charles E., Chicago, Ill. Signaling-circuit for telephone-exchanges	333,167	Dec. 29	2773	726	33	1519

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Scribner, Charles E., assignor, by mesne assignments, to Western Electric Company, Chicago, Ill. Regulator for dynamo-electric machines	330,053	Nov. 10	852	280	33	673
Scribner, Charles E., Chicago, Ill., assignor to Western Electric Manufacturing Company. Duplicate switch-board system for telephones	321,390	June 30	3283	{ 877 878 }	31	1620
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Multiple switch-board system	321,057	June 30	2859	761	31	1601
Scribner, Charles E., assignor to Western Electric Manufacturing Company, Chicago, Ill. Multiple switch-board for telephone-exchanges	321,391	June 30	3284	878	31	1681
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Electric-arc lamp	330,052	Nov. 10	850	219	33	672
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Testing apparatus for lightning-arresters	330,054	Nov. 10	853	230	33	673
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Electric-arc lamp	330,055	Nov. 10	854	221	33	673
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Battery-circuit for telephone-exchanges	330,056	Nov. 10	855	221	33	674
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-exchange signal	330,057	Nov. 10	857	221	33	674
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Operator's apparatus for telephone-exchanges	330,058	Nov. 10	858	{ 221 222 }	33	674
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Multiple-switch-board testing apparatus	330,059	Nov. 10	859	222	33	675
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Operator's testing apparatus for multiple switch-boards	330,060	Nov. 10	860	222	33	675
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Multiple switch-board	330,061	Nov. 10	862	{ 222 223 }	33	675
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Multiple switch-board	330,062	Nov. 10	864	223	33	676
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Operator's apparatus for telephone switch-boards	330,063	Nov. 10	865	223	33	676
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Gravity telephone-switch	330,064	Nov. 10	867	{ 223 224 }	33	677
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-exchange switching apparatus	330,065	Nov. 10	866	224	33	677
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Toll-line apparatus for telephone-exchanges	330,066	Nov. 10	870	{ 224 225 }	33	677
Scribner, G. Hilton. (See Heckert, William, assignor.)						
Scribner, James H., assignor of one-half to O. E. Weber, Atlantic, Iowa. Spectacle-frame soldering-clamp	324,276	Aug. 11	1190	323	32	152
Sculdor, Raymond B., New Orleans, La. Cistern and tank cleaner	330,180	June 16	1653	430	31	1364
Scull, David, Jr., et al. (See Hardwick, Joseph O., assignor.)						
Scully, Benjamin B., Lynn, Mass. Necktie-supporter	330,743	Nov. 17	1755	472	33	856
Scott & Co., H. B. (See Stubbs, John, assignor.)						
Scott, Hiram B., Joliet, Ill. Barbed wire	332,755	Dec. 22	2201	580	33	1411
Seabrook, William, Edisto Island, S. C. Month-piece for pipes	318,210	May 19	1712	458	31	855
Seabury, Frederick W., Providence, R. I. Vulcanizing rubber	325,119	Aug. 25	2330	641	32	979
Seal, Joel A., Philadelphia, Pa. Cover for milk-cans	327,325	Sept. 29	2339	741	32	1502
Seale, Thomas, San Francisco, Cal. Wire rope or cable	315,077	Apr. 7	124	29	31	24
Seaman, Albert H. (See Hyde and Seaman.)						
Seaman, Alfred S., Frackville, Pa. Ventilator	314,892	Mar. 31	2508	665	30	1294
Seaman, Alfred S., Frackville, Pa. Knife for cutting oil-cloth	318,211	May 19	1712	458	31	856
Seaman, Alfred S., Frackville, Pa. Oil-cloth knife	322,755	July 21	1808	477	32	344
Seaman, Joseph S., Pittsburg, Pa. Machine for rolling billets	318,513	May 26	2117	{ 571 572 }	31	939
Seamands, William C., et al. (See Biven, Frederick, assignor.)						
Seamless Rubber Company. (See Longden, Charles E., assignor.)						
Search, Casper F., Winona, Minn. Pitman	326,987	Sept. 22	2264	592	32	1451
Seargeant, William F., Marshall, Mo. Square	332,011	Dec. 8	1130	295	33	1209
Searing, William R. (See Savoye and Searing.)						
Searle, John Q. C., Chicago, Ill. Car-warmer	311,533	Feb. 3	99	29	30	368
Searle, John Q. C., Chicago, Ill. Car-warmer	311,534	Feb. 3	100	30	30	368
Searls, Anson, assignor to Searls Manufacturing Company, Newark, N. J. Whip-socket fastener	327,113	Sept. 29	2569	670	32	1513
Searls, Henry. (See Trippett and Searls.)						
Searls Manufacturing Company. (See Searls, Anson, assignor.)						
Searls, Thomas. (See Trippett and Searls.)						
Sears, Peter, Barnesville, Ohio. Automatic cut-off	331,452	Dec. 1	222	77	33	1049
Swaton, Charles H. (See McNeal, James, assignor.)						
Seaver, Augustus, trustee. (See Coupal, Peter A., assignor.)						
Seaver, Augustus, Boston, assignor of one-third to C. Curtis, Newton, Mass. Boot or shoe	314,302	Mar. 24	1716	456	30	1122
Seaver, George F., and C. G. Mork, Joliet, Ill. Tool for piercing holes in soles of boots or shoes	326,180	Sept. 15	1252	{ 320 321 }	32	1260
Seaver, John W., assignor of one-half to Ritter & Conley, Pittsburg, Pa. Center for turntables and bridges	323,743	Aug. 4	469	133	32	611
Seavoy, George F., Boston, Mass. Culinary steamer	317,219	May 5	397	99	31	596
Sebastian, Fredrich L., Toledo, Ohio. Hop-breaker	323,979	Sept. 8	1006	256	32	1208
Sebring, Clara E. (See Sebring, Thomas V., assignor.)						
Sebring, Thomas V., assignor to C. E. Sebring, Fort Wayne, Ind. Brush	313,776	Mar. 10	1002	259	30	972
Sechler, Daniel M., Cincinnati, Ohio. Two-wheeled vehicle	324,998	Aug. 25	2028	555	32	922
Sechler, Daniel M., Cincinnati, Ohio. Two-wheeled vehicle	324,962	Aug. 25	2128	581	32	942
Serk, Heinrich, Dresden, Saxony, Germany. Machine for separating light and heavy substances	316,120	Apr. 21	1677	440	31	318
Secor, John A. (See Secor, Samuel and J. A.)						
Secor, Samuel and J. A., Brooklyn, assignors of one-fourth to R. Poillon, New York, N. Y. Propelling vessels	313,629	Mar. 10	877	220	30	951
Secord, Van Cortland. (See Bacon and Secord.)						
Sedgwick, Frederick, Chicago, Ill. Electric mechanism for operating safe bolt-work	329,222	Oct. 27	2314	599	33	443
Sedgwick, Frederick, Chicago, Ill. Electric mechanism for operating safe bolt-work	329,223	Oct. 27	2315	599	33	443
Sedgwick Manufacturing Company. (See Stuart, Robert J., assignor.)						
See, Alonzo B., Youkers, N. Y. Packing for hydraulic pistons	311,380	Jan. 27	1644	450	30	323
See, Alonzo B., Brooklyn, N. Y. Elevator-cage and safety appliance	324,493	Aug. 18	1480	406	32	812
See, Horace, assignor of one-half to W. Cramp & Sons Ship and Engine Building Company, Philadelphia, Pa. Manufacture of crank-shafts	322,204	July 14	1082	281	32	206

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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See, Horace, assignor of one-half to W. Cramp & Sons Ship and Engine Building Company, Philadelphia, Pa. Apparatus for fitting and finishing crank-shafts	322,205	July 14	1084	221	32	906
See, James W. (See Cullen and See.)						
See, James W., Hamilton, assignor to C. E. Jones & Bro., Cincinnati, Ohio. Caster	315,560	Apr. 14	892	216	31	153
See, James W., Hamilton, assignor to C. E. Jones & Bro., Cincinnati, Ohio. Caster	331,859	July 7	696	161	32	114
See, Joseph B., Brooklyn, N. Y. Cuff and wristband for shirts	315,174	Apr. 7	260	63	31	47
See, William T., Meadville, Pa. Stove-polish	332,756	Dec. 22	2201		33	1411
Seebass, Oscar. (See Haenichen, Friedrich and O., assignors.)						
Seeber, Philip P. (See Wilber, William H., assignor.)						
Seedhouse, Edward, Netherton, near Dudley, county of Worcester, England. Playing-card	336,678	Sept. 22	1944	511	32	1395
Seeger, George G., Hillsdale, Iowa. Harrow	331,749	Dec. 1	755	191	33	1133
Seeger, Robert, St. Paul, Minn. Gas-regulator	320,095	June 16	1541	408	31	1345
Seel, Charles, Philadelphia, Pa. Folding baby-carriage	332,757	Dec. 22	2202	580	33	1411
Seeley, Isaac B., Philadelphia, Pa. Crate for fruit, &c.	310,730	Jan. 13	732	199	30	145
Seeley, Isaac B., Philadelphia, Pa. Sleigh-shoe	333,426	Dec. 22	3122	815	33	1521
Seeley, William W., Albany, N. Y. Baling-press	332,291	Dec. 15	1536	403	33	1287
Seeley, William W., Albany, N. Y. Baling-press	332,292	Dec. 15	1537	403	33	1287
Seeligman, Abbott L. (See Steinman and Seeligman.)						
Seely, David M., Elmira, N. Y. Pocket for billiard and pool tables	327,720	Oct. 6	302	77	33	53
Seely, Elizabeth A., Bloomfield, Ind. Kettle-holder	325,688	Sept. 8	874	220	32	1184
Seely, Frank, New York, N. Y. Screen attachment for bottling-machines	326,679	Sept. 22	1945	511	32	1395
Seely, John, Warsaw, N. Y. Salt boiler or pan	319,630	June 9	900	236	31	1222
Seely, John A. (See Eckert, Seely, and Eckert.)						
Seely, John A., New York, N. Y. Telephone-exchange	318,514	May 26	2122	572	31	940
Seely, John A., New York, N. Y. Telephonic and telegraphic signal system	332,012	Dec. 8	1131	285 296	33	1210
Seely, John A., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Multiple switch-board for telephone-exchanges	330,067	Nov. 10	873	225	33	678
Seely, Obadiah, assignor to E. C. Stearns & Co., Syracuse, N. Y. Door-hanger	310,229	Jan. 6	86	23	30	19
Seely, Obadiah, assignor to E. C. Stearns & Co., Syracuse, N. Y. Handle for sliding doors	321,143	June 30	2974	788	31	1021
Seeman, Henry, Durham, N. C. Wagon-gearing	325,869	Sept. 8	875	220	32	1184
Seery, Thomas F., Boston, Mass. Dumping-car	323,744	Aug. 4	470	133	32	611
Sees, Louis, Port Elgin, Ontario, Canada. Fire-escape	328,345	Oct. 13	1081	281	33	205
Seessle, Charles, assignor to New York Automatic Scale Company, New York, N. Y. Automatic grain-weighing apparatus	317,220	May 5	398	100	31	586
Seessle, Charles, assignor to New York Automatic Scale Company, New York, N. Y. Stop-motion for grain-weighing apparatus	332,116	Dec. 8	1296	336	33	1238
Segar, Charles T., Utica, N. Y. Folding bed or cot	316,298	Apr. 21	1816	478	31	342
Seghers, John B., Jr., et al. (See Crocker, John B., assignor.)						
Segrove, David W., Springfield, Ohio. Tuning-fork	329,090	Oct. 27	2125	551	33	408
Schmer, Rudolph, et al. (See Kock, Christian H., assignor.)						
Seib, Frank. (See Seib, Simon and F.)						
Seib, Simon, Newark, N. J. Clothes-line pulley	327,326	Sept. 29	2241	741	32	1562
Seib, Simon and F., Newark, N. J. Automatic line-fastener	314,065	Mar. 17	1396	364	30	1054
Seibel, Jacob. (See Grater and Seibel.)						
Selberling, John F. (See Laraway, George W., assignor.)						
Selberling, John F., Akron, Ohio. Grain-binding harvester	310,324	Jan. 6	220	60 61 62	30	42
Selberling, John F., Akron, Ohio. Grain-binding harvester	311,040	Jan. 20	1149	313 314	30	227
Selberling, John F., Akron, Ohio. Pulp-vat for paper-making machines	312,300	Feb. 17	1274	352	30	601
Selberling, John F., Akron, Ohio. Vat for paper-making machines	323,079	Sept. 28	2275	602	32	437
Selbert, John F., Akron, Ohio. Grain-binding harvester	325,871	Aug. 8	876	221	32	1184
Selbert Cylinder Oil Cup Company. (See McNary, Isaac R., assignor.)						
Selbert, Joseph S., Pullman, Ill. Metalluric gas-furnace	315,846	Apr. 14	1901	313	31	224
Seibold, Otto F., Brooklyn, N. Y. Pen-holder	320,299	June 16	1820	484	31	1394
Seidel, Peter F., Pine Grove, Pa. Hog scalding and scraping machine	329,683	Nov. 3	347	88	33	570
Seidenberg & Co. (See Plasko, Emanuel, assignor.)						
Seifried, Kaspar, Mamaronock, N. Y. Wrench	326,680	Sept. 22	1946	511	32	1395
Seigenthaler, George B., Wooster, Ohio. Boot or shoe sole	320,625	Nov. 17	1597	427	33	828
Seiger, Albert P., Mansfield, Ohio. Bicycle-holder	320,430	Nov. 17	1356	361	33	779
Seips, Michael, assignor to M. Bowman & Co., Meriden, Conn. Shaker	324,173	Aug. 11	1037	283	32	723
Seitz, Edward G., Chicago, Ill. Two-wheeled vehicle	311,922	Feb. 10	616	170	30	471
Seitz, Julius A., Brooklyn, N. Y. Ash-sifter	328,147	Oct. 13	831	217	33	157
Seitz, Mary A. (See Claghorn, Edward J., assignor.)						
Seitz, Mary A. (See Shay, Marie E., assignor.)						
Selvard, Henry. (See Orr and Selvard.)						
Selvaas, Florian, et al. (See Envel, Samuel, assignor.)						
Selby, Patrick, assignor of one-half to J. H. Winn, Lee, Ohio. Clothes-pounder	328,434	Oct. 13	1215	314	33	920
Selden, Charles, Baltimore, Md. Fire and police alarm telegraph	321,058	June 30	2260	761	31	1002
Seldner, Joseph J., Baltimore, Md. Drive-chain	324,734	Aug. 18	1810	500	32	875
Self Acting Sewing Machine Company. (See Watkins, Alexander, assignor.)						
Selgrath, Lewis, New York, N. Y. Tap-bush for barrels	332,445	Dec. 15	1748	457	33	1323
Seligman, Emma. (See Seligman, Henry, assignor.)						
Seligman, Emma. (See Seligman, Henry and E.)						
Seligman, Henry, Irvington, N. Y. Mechanical telephone	326,458	Sept. 15	1646	430	32	1334
Seligman, Henry, assignor to E. Seligman, Irvington, N. Y. Angle-hanger for mechanical telephone-lines	315,078	Apr. 7	125	29	31	94
Seligman, Henry and E., Irvington-on-Hudson, N. Y.; said Henry Seligman assignor to said E. Seligman. Mechanical telephone	320,181	June 16	1654	439	31	1365
Sell, Caleb R., and W. S. Davis, Blandinsville, Ill. Washing-machine	326,339	Sept. 15	1505	392	32	1308
Sell, Edgar E., Charleston, S. C. Car-coupling	323,080	July 28	2277	602 603	32	437
Sell, Fred, assignor of one-half to W. Klacser, Milwaukee, Wis. Stock-car	321,960	July 7	627	161	32	114
Sellers, Albert, Littleton, Ill. Draft-equalizer	322,647	July 21	1663	440 441	32	318
Sellers, Charles. (See Gurney and Sellers.)						
Sellers, William. (See Bancroft, J. Sellers, assignor.)						
Sellers, William, Philadelphia, Pa. Metal mold for casting steel wheels	319,515	June 9	741	199	31	1194
Sellers, William, Haverhill, Mass. Hand-rake	319,631	June 9	900	226	31	1223
Sellon, John S., Hatton Garden, county of Middlesex, England. Secondary battery or electrical accumulator	321,759	July 7	476	126	32	86

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Sellon, John S., Hatton Garden, county of Middlesex, England. Secondary battery	394,597	Aug. 18	1616	445	39	839
Sellon, John S., Hatton Garden, county of Middlesex, England. Secondary battery or electrical annunciator	325,120	Aug. 25	2331	{ 641 642 }	32	979
Sells, A. G., et al. (See Fox, Albert R., assignor.)						
Sells, Sumner J., Bloomington, Ill. Slat-fastener for belts	313,777	Mar. 10	1003	259	30	972
Sells, W. M. (See Eagleston, Joseph and W., assignors.)						
Selowaky, Gustave, New York, N. Y. Shield for scarfs	312,519	Feb. 17	1464	401	30	635
Selsor, George, assignor to Germantown Tool Works, Philadelphia, Pa. Die for making hatchets	318,319	May 19	1855	498	31	881
Seltzer, Charles M., and O. T. Moeck, Philadelphia, Pa. Railway-chair	313,778	Mar. 10	1004	259	30	973
Selwyn, Jasper H., Gloucester Crescent, Hyde Park, county of Middlesex, England. Furnace for the combustion of liquid fuel	326,161	Sept. 15	1253	{ 322 321 }	32	1260
Selz, Henry, Pilot Point, Tex. Feeder for cotton-presses	313,697	Mar. 10	801	210	30	935
Semper, Conrad, Philadelphia, Pa. Grinding caustic soda	318,044	May 19	1502		31	815
Senate, James D., Bunker Hill, Ohio. Machine for making clothes-pins	323,453	Aug. 4	88	26	32	538
Sencenbaugh, Samuel S., Aurora, assignor of one-half to G. V. Harvey and C. O. Boring, Chicago, Ill. Tag-fastener	313,539	Mar. 10	687	180	30	914
Senderling, Martin L., Jersey City, N. J. Loose pulley, wheel, &c	326,596	Sept. 22	1825	{ 480 481 }	32	1375
Senn, Ferdinand, New York, N. Y. Coconut pulp	331,559	Dec. 1	441		33	1076
Senn, John T., assignor to himself and A. McKenzie, Troy, Ala. Well-fixture	311,923	Feb. 10	618	171	30	472
Senour, Faunt L., New Alexandria, Pa. Combined potato and corn planter	330,158	Nov. 10	993	{ 258 259 }	33	702
Sensiba, Fred W., Talbot, Mich. Mail-crane	327,300	Sept. 29	2686	898	32	1535
Serdinko, John, New Braunfels, Tex. Rotary force-pump	315,667	Apr. 14	957	251	31	179
Sergeant, Benjamin E., Greensborough, N. C. Saw-mill set-works	317,221	May 5	400	100	31	596
Sergeant, Henry C., New York, N. Y. Hose-coupling	314,060	Mar. 17	1397	365	30	1054
Sergeant, Henry C., New York, N. Y. Column-support for rock-drills	315,668	Apr. 14	958	251	31	179
Sergeant, Henry C., New York, N. Y. Tripod-support for rock-drills	316,666	Apr. 28	2309	606	31	438
Sergeant, Henry C., New York, N. Y. Rock-drill	326,507	Sept. 22	1829	481	32	1375
Sergeant, Henry C., New York, N. Y. Rock-drill	326,681	Sept. 22	1947	{ 511 512 }	32	1396
Sergeant, Henry C., New York, N. Y. Rock-drill	326,682	Sept. 22	1950	512	32	1396
Sergeant, Henry C., New York, N. Y. Steam-actuated valve	330,068	Nov. 10	875	226	33	678
Sergeant, Raphael, Pittsburg, Pa. Bolster-plate	314,730	Mar. 31	2282	606	30	1252
Sergeant, Raphael, assignor to Oliver Brothers & Phillips, Pittsburg, Pa. Wagon-pole clip	331,007	Nov. 24	2026	567	33	928
Sergeson, James C., Philadelphia, Pa. Loom-shuttle	312,520	Feb. 17	1465	401	30	635
Sernedinger, Thomas. (See Pedersen and Sernedinger.)						
Serrell, Edward W., Jr., New York, N. Y. Device for reeling silk from the cocoon	317,222	May 5	402	101	31	597
Serrell, Edward W., Jr., New York, N. Y. Cocoon-holder for silk-reeling machines	317,223	May 5	403	101	31	597
Serrell, Harold, Plainfield, N. J., assignor to N. E. Montross, New York, N. Y. Artist's palette-cup	320,709	June 23	2406	637	31	1510
Serrell, Lemuel W., Plainfield, N. J. Invalid-chair	325,872	Sept. 8	878	221	32	1184
Serson, James. (See Leighton, Edwin F., assignor.)	315,669	Apr. 14	959	251	31	179
Servis, Silas A. (See Clark, Charles H., assignor.)						
Seton, John, and W. Conoly, Brooklyn, N. Y. Skylight	312,585	Feb. 17	1548	421	30	652
Setterwall, H. F. Ang. (See Hall, Clemence, and Setterwall.)						
Severance, Edward A., Turner's Falls, Mass. Machine for burnishing the blades of table-knives	327,327	Sept. 29	2841	741	32	1562
Severance, Edward A., Turner's Falls, Mass. Machine for burnishing the handles of plated knives	327,328	Sept. 29	2843	742	32	1562
Severance, Henry C., Phelps, N. Y. Powder-charger	328,346	Oct. 13	1082	282	33	206
Seward, Albert B. (See Farr and Seward.)						
Seward, Robert D., and S. D. Noel, Bloomington, Ind. Trough-clamp	319,139	June 2	253	66	31	1094
Sewell, Addison D., Colton, Washington Ter. Slide-hill sulky-plow	311,041	Jan. 20	1151	314	30	227
Sewell, Sarah, Mark Centre, Ohio. Combined washing-machine and teeter or seesaw	330,626	Nov. 17	1596	427	33	826
Sewell, William N., Hedeca, Ky. Car-coupling	311,535	Feb. 3	102	30	30	369
Sewrey, Henry, Barrie, Ontario, Canada. Rotary engine	320,254	June 30	3110	627	31	1646
Sexton, Charles M., Aurora, Ill. Pneumatic time-signal for railway-trains	317,224	May 5	404	101	31	597
Sexton, Charles M., Aurora, Ill. Train-time signal for railway-stations	317,225	May 5	406	102	31	598
Sexton, Joel B. (See Alcorn, John S., assignor.)						
Sexton, Patrick D., Worcester, Mass. Chimney-cap	319,750	June 9	1051	278	31	1251
Seyfert, Simon J. (See Christ, Wellington H., assignor.)						
Seyfried, James. (See Hock, William R., assignor.)						
Seymour, Francis, assignor of one-half to J. Hinchliffe, Jr., Paterson, N. J. Artificial feather	325,870	Sept. 8	875	220	32	1184
Seymour, Frederick W., Newark, Ohio, assignor of one-half to J. L. Rhoads, Wheeling, W. Va. Combined sash fastener and lift	312,023	Feb. 10	770	209	30	499
Seymour, Henry A., Washington, D. C., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Box or trunk fastener or catch	323,830	Aug. 4	574	162	32	631
Seymour, Henry T. (See Cooke and Seymour.)						
Seymour, James M., Cleveland, Ohio. Stove attachment for grates and fire-places	317,863	May 12	1252	{ 332 333 }	31	760
Seymour, James M., Cleveland, Ohio. Stove attachment for grates	317,864	May 12	1254	333	31	761
Seymour, James M., Newark, N. J. Rotary fan	325,453	Sept. 1	321	78	32	1076
Seymour, James M., Newark, N. J. Fan	326,828	Sept. 22	2265	592	32	1452
Seymour, James M., Newark, N. J. Automatic fan. (Reissue)	10,657	Nov. 3	611	156	33	619
Seymour, James M., Newark, N. J. Fan	330,827	Nov. 17	1599	428	33	826
Seymour, James M., Newark, N. J. Suspended pan	331,092	Nov. 24	2203	{ 506 507 }	33	948
Seymour, James M., Newark, N. J. Columnar fan	322,446	Dec. 15	1749	457	33	1323
Seymour, James M., Newark, N. J. Fan	333,349	Dec. 29	3028	789	33	1565
Seymour, Joseph L., New York, N. Y. Cutting and packing kindling-wood	317,430	May 5	666	169	31	644
Seymour, Oliver E., assignor of one-half to H. McKenzie, Cincinnati, Ohio. Gate	394,735	Aug. 18	1810	{ 500 501 }	32	875
Seymour, Robert B., Willet's Point, N. Y. Leveling-rod	310,731	Jan. 13	733	199	30	145
Seymour, William S., assignor to J. H. Shields and F. E. Brown, Chicago, Ill. Non-conducting covering for steam-pipe fittings	313,958	Mar. 17	1269	331	30	1020
Seyter, Herman. (See Walworth and Seyter.)						
Shaber, Jacob, Reading, Pa. Stove	312,662	Feb. 24	1643	453	30	679
Shaber, William E., San Francisco, Cal. Sofa-bed	321,540	July 7	187	50	32	37
Shackelford, Samuel, assignor to himself and I. N. Anderson, Bellaire, Ohio. Car-mover	330,744	Nov. 17	1755	473	33	856

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Shackell, Henry, Jr., et al. (See Burke, James M., assignor.)						
Shadday, George, Jr., Rexville, Ind. Corn-planter	325,121	Aug. 25	2333	{ 442 643 }	32	979
Shaeffer, Samuel C. (See Wiesebrook, Frederick W., assignor.)						
Shaffer, Richard S., J. K. Adams, and G. W. Hunter, Albany, Mo. Car-coupling	325,873	Sept. 8	879	221	32	1185
Shaffer, William F. Cedar Rapids, Iowa. Oil-press mat and compressor	331,162	Nov. 24	2307	625	33	966
Shaffer, William T., Evanston, Wyo. Ter. Broom-support	332,014	Dec. 8	1134	296	33	1210
Shaffstall, Nathaniel, Flint, Ind. Salky-plow	310,539	Apr. 28	2580	674	31	467
Shailer, Fisk, Chester, Conn. Auger-bit	323,454	Aug. 4	91	26	32	539
Shailer, Simon W. (See Shailer, William W., assignor.)						
Shailer, William W., assignor of two-thirds to S. W. Shailer, Ivoryton, Conn. Nut-lock	324,174	Aug. 11	1039	283	32	723
Shakespeare, Thomas, Birmingham, county of Warwick, England. Tricycle	325,019	Aug. 25	2306	605	32	955
Shaler, Nathaniel S., Cambridge, assignor to T. A. Dodge, trustee, Brookline, Mass. Friction device for locomotives	313,059	Mar. 17	1270	331	30	1029
Shalkop, Samuel B., et al. (See Brooke, Isaac, assignor.)						
Shallenberger, Frank L., Braddock, assignor to Wilson, Walker & Co., (limited,) Pittsburgh, Pa. Car-axle lubricator	328,257	Oct. 13	968	252	33	184
Shalz, Nikolaus J., Brown, Iowa. Boot-jack	332,015	Dec. 8	1136	296	33	1210
Shank, Henry, and W. E. Meek, Colorado Springs, Colo. Device for weaning calves	332,293	Dec. 15	1539	403	33	1287
Shank, Hiram, Providence, Pa. Bag-fastener	319,516	June 9	745	199	31	1194
Shank, John H., Gallipolis, Ohio. Smoke-consumer	323,117	July 28	2467	656	32	473
Shank, John T., assignor of one-half to A. M. Lapham, Springfield, Mo. Bee-hive	322,962	July 28	2143	569	32	414
Shank, William H. (See Dimond, William, assignor.)						
Shannon, Fanny B., Denver, Colo. Game of fractions	310,325	Jan. 6	226	62	30	43
Shannon, Frank, Middleport, Ohio. Household furniture	331,193	Nov. 24	2308	625	33	966
Shannon, James S., Hinsdale, Ill. Pouch	310,917	Jan. 20	974	{ 264 265 }	30	194
Shannon, James S., Chicago, Ill. Index for paper-files	331,259	Nov. 24	2354	663	33	991
Shannon, John T., Carlisle, Ind. Strap-attaching device	316,667	Apr. 28	2311	{ 606 607 }	31	438
Shantz, Dilman B., Berlin, Ontario, Canada. Button	327,004	Oct. 6	134	31	33	25
Shapley, James E., assignor of one-half to W. M. Shapley, Binghamton, N. Y. Steam-generator	320,446	June 10	2038	540	31	1436
Shapley, William M. (See Shapley, James E., assignor.)						
Sharer, George W., Terre Haute, Ind. Drier	315,348	Apr. 7	496	126	31	91
Sharp, David, Lemoore, Cal. Derrick	322,756	July 21	1747	477	32	345
Sharp, Dennis P., Ithaca, N. Y. Two-wheeled vehicle	313,379	Mar. 3	478	125	30	865
Sharp, Dennis P., Ithaca, N. Y. Clothes-drier	330,150	Nov. 10	995	259	33	102
Sharp, Dennis P., Ithaca, N. Y. Folding ladder	331,560	Dec. 1	141	114	33	1076
Sharp, James B., New York, N. Y. Suspender-end	310,732	Jan. 13	734	200	30	145
Sharp, John F., Philadelphia, Pa., assignor to United States Automatic Railroad Gate and Signal Company, New York, N. Y. Automatically-operating gates and signals	322,327	July 14	1226	322	32	223
Sharp, Mark. (See Baker, Elijah E., assignor.)						
Sharp, Van Schaick, assignor of one-half to W. W. Holcomb, Weedsport, N. Y. Machine for cross-trimming sheet metal	317,585	May 12	865	297	31	691
Sharp, Van Schaick, assignor of two-thirds to W. W. Holcomb and H. E. Rheubottom, Weedsport, N. Y. Machine for framing sheet metal	324,736	Aug. 18	1812	501	32	876
Sharp, William R., New Philadelphia, Ohio. Axle-trimming tool	312,521	Feb. 17	1466	401	30	635
Sharpe, Charles M., Philadelphia, Pa. Collar-button	321,861	July 7	628	{ 162 163 }	32	115
Sharpe, George E., Steubenville, Ohio. Fire-place	329,224	Oct. 27	2316	600	33	443
Sharpneck, William S., Denver, Colo. Rock breaker and pulverizer	315,070	Apr. 14	961	252	31	180
Sharpneck, William S., assignor to H. N. Nichols, Denver, Colo. Stamp	320,818	June 23	2536	673	31	1535
Sharpneck, William S., assignor to H. N. Nichols, Denver, Colo. Ore-feeder	325,701	Sept. 8	641	163	32	1140
Sharps, Charles F., Meriden, Conn. Organ stop-action	321,455	July 7	64	18	32	15
Shattuck, Aaron D., Granby, Conn. Stretcher-frame	320,300	June 16	1621	484	31	1394
Shattuck, Charles H., Boston, Mass. Car-axle box	317,620	May 19	1009	262	31	714
Shatzer, Peter, New Athens, Ohio. Neck-yoke	332,013	Dec. 8	1134	296	33	1210
Shaver, Joseph, Milwaukee, Wis. Ruling device for slates	328,525	Oct. 20	1328	344	33	257
Shaw, Addie M. (See Shaw, Noah, assignor.)						
Shaw, Charles A. (See Carter, Thomas D., assignor.)						
Shaw, Charles A. (See Ellis, Clifford C., assignor.)						
Shaw, Charles H., Brooklyn, assignor to Fahys Watch Case Company, New York, N. Y. Watch-case	323,370	July 28	2629	716	32	512
Shaw, Charles N., Potoskey, Mich. Meat-freezer	316,840	Apr. 28	2581	675	31	467
Shaw, Edgar, Lynn, Mass. Hand-screw or vise-jaw attachment	331,164	Nov. 24	2309	625	33	966
Shaw, Edgar, Lynn, Mass. Adjustable vise-jaw	333,261	Dec. 29	2907	760	33	1544
Shaw, Elijah. (See Stebbins, Nathan M., assignor.)						
Shaw, Francis R., Chatham Centre, Ohio. Mechanical telephone	328,258	Oct. 13	970	252	33	124
Shaw, Frank. (See Childs and Shaw.)						
Shaw, Frank, New York, N. Y., and W. A. Childs, Englewood, N. J. Telephone-exchange system and apparatus	319,856	June 9	1202	318	31	1276
Shaw, Frederick E., Valley Falls, R. I. Plotting-scale	323,218	July 28	2469	626	32	473
Shaw, Genio M., Pittsburgh, Pa. Ratchet apparatus	318,212	May 19	1713	458	31	856
Shaw, George W., assignor to himself and J. S. Maratta, Taylorsville, Ky. Running-gear	314,348	Mar. 24	1775	472	30	1131
Shaw, H. C. (See Deane, Charles H., assignor.)						
Shaw, Henry F., Boston, Mass. Hydraulic elevator	316,070	Apr. 21	1511	394	31	286
Shaw, Henry F., Boston, Mass. Valve-gear	332,842	Dec. 22	2304	606	33	1430
Shaw, Henry S. H., Bristol, county of Bristol, England. Apparatus whereby the relative motions of two or more bodies may be varied in any required manner independently of their actual motions	312,171	Feb. 10	974	266	30	531
Shaw, James F., assignor to himself and J. M. Quivey, Jackson, Mich. Boot	331,561	Dec. 1	442	115	33	1076
Shaw, James G., New York, N. Y. Forming a pencil-pocket at the back of a book	334,175	Aug. 11	1040	284	32	723
Shaw, James H., New York, N. Y. Electrode dumb-bell for electrical exercising apparatus	310,773	Jan. 13	734	200	30	145
Shaw, James H., New York, N. Y. Electrical exercising apparatus	311,381	Jan. 27	1646	450	30	323
Shaw, John A., Ayer, Mass. Steam-cooker	325,960	Sept. 8	1007	257	32	1208
Shaw, John H., assignor to Sargent & Co., New Haven, Conn. Transom-lifter	312,024	Feb. 10	770	210	30	499
Shaw, John H., assignor to Sargent & Co., New Haven, Conn. Door-knob	321,862	July 7	629	162	32	115
Shaw, John H., assignor to Sargent & Co., New Haven, Conn. Door-check	322,648	July 21	1665	441	32	319
Shaw, John H., assignor to Sargent & Co., New Haven, Conn. Door-spring	322,649	July 21	1666	441	32	319
Shaw, John H., assignor to Sargent & Co., New Haven, Conn. Transom-lifter	322,722	Oct. 20	1610	419	33	308
Shaw, John J., et al. (See Howe, Edward P., assignor.)						
Shaw, Joshua A., Gillespie, Ill. Self-checking corn-planter	329,091	Oct. 27	2130	551	33	408

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Shaw, Marshall B., <i>et al.</i> (See Stanton, Lafayette J., assignor.)						
Shaw, Noah, assignor to A. M. Shaw, Eau Claire, Wis. Machine for applying Babbitt-metal linings to bearing-boxes.	314,614	Mar. 31	2126	567	30	1924
Shaw, Noah T., assignor of one-half to G. Riddle, Columbus, Ohio. Laying-out and embalm- ing board	327,967	Oct. 6	599	156	33	108
Shaw, Noah T., W. S. Carlile, and J. W. Dann, Columbus, Ohio. Laying-out and embalm- ing board	330,160	Nov. 10	996	259 860	33	702
Shaw, Oscar F. (See Goodrich, Andrew S., assignor.)						
Shaw, Richard H. (See Greig, Shaw, and Whittingham.)						
Shaw, Thomas, Philadelphia, Pa. Car-brake.	311,292	Jan. 27	1475	403	30	292
Shaw, Walter, Boston, Mass. Sheet-music.	322,013	July 14	827	216	32	159
Shaw, William A., Brooklyn, assignor to C. A. Cheever, trustee, New York, N. Y. Elec- tric circuit	311,682	Feb. 3	292	80	30	404
Shaw, William A., Brooklyn, assignor to Electrical Accumulator Company, New York, N. Y. Secondary battery	316,407	Apr. 21	1966	518	31	368
Shaw, William A., Pittsburg, Pa., assignor to Electrical Accumulator Company, New York, N. Y. Secondary battery	316,408	Apr. 21	1970	518	31	368
Shaw, William A., Pittsburg, Pa., assignor to Electrical Accumulator Company, New York, N. Y. Secondary battery	316,409	Apr. 21	1972	518	31	369
Shaw, William H., New York, N. Y. Sponge-holder for slate-pencils	317,026	May 5	120	32	31	545
Shaw, William J., Chicago, Ill. Sofa-bed	327,605	Oct. 6	135	32	33	26
Shaw, George W., Cleveland, Ohio. Hydrant-filter.	322,486	July 21	1458	384	32	281
Shay, John H., <i>et al.</i> (See Plumb, Fawcett, assignor.)						
Shay, Marie E., Fordham, assignor to M. A. Selts, New York, N. Y. Machine for rolling axles, spindles, and other metal articles	311,924	Feb. 10	619	171 172	30	472
Shay, Richard, New York, N. Y. Bottling-machine	324,494	Aug. 18	1462	406	32	613
Shea, Robert. (See Kirby and Shea.)						
Shea, Timothy F., <i>et al.</i> (See Shields, James H., assignor.)						
Shealy, David, Bucyrus, Ohio. Dash-cord guide.	312,025	Feb. 10	771	210	30	499
Shearer, Charles J. W., Indianapolis, Ind. Coffee-roaster.	331,828	Dec. 8	865	222	33	1160
Shearer, John, Preston, Ontario, Canada. Cloth-pressing machine	320,006	June 16	1424	374	31	1323
Shearer, John, Preston, Ontario, Canada. Machine for pressing cloth	325,122	Aug. 25	2335	643	32	980
Shearer, John, assignor of one-half to G. Pattinson, Preston, Ontario, Canada. Gig for napping cloth	322,963	July 28	2145	569	32	414
Shearer, William C., assignor of one-half to A. L. Harris, Atlanta, Ga. Locomotive-engine.	318,313	May 19	1856	498	31	881
Shearlock, Alfred F. (See McCudden and Shearlock.)						
Shears, Thomas J., Detroit, Mich. Target-dart.	322,964	July 28	2146	569	32	414
Sheather, Charles, John Terrace, Regent's Park, county of Middlesex, England. Horse- shoe	322,584	July 21	1563	412 413 333 334	32	290
Shedd, Charles F., Fairfield, Nebr. Apparatus for training horses to harness	317,865	May 12	1255	129	31	761
Shedd, Charles F., Fairfield, Nebr. Harness.	319,327	June 2	478	129	31	1139
Shedd, Charles F., Fairfield, Nebr. Structure for handling vicious animals	320,710	June 23	2407	637 638	31	1510
Shedd, Charles F., Fairfield, Nebr. Stall	320,711	June 23	2408	638	31	1511
Shedd, Charles F., Fairfield, Nebr. Driveway for training horses	320,712	June 23	2410	638 639	31	1511
Shedlock, Alfred, Brooklyn, N. Y. Screw-thread gage	320,976	June 30	2758	733	31	1583
Sheehan, James H., assignor of one-half to E. L. Sterne, Bangor, Me. Nut-lock. (Rela- tue)	10,578	Apr. 7	660	170	31	118
Sheehan, Owen, New Bedford, Mass. Warping-machine.	322,014	July 14	829	216 217	32	159
Sheehan, Thomas, Dunkirk, N. Y. Making refined cast-steel and steel-coating wrought- iron	320,819	June 23	2537		31	1536
Sheehan, William E. (See Huse, Sheehan, and Davis.)						
Sheehy, Robert J., New York, N. Y. Printing-telegraph	325,702	Sept. 8	643	164 165	32	1141
Sheet Iron Bellows Company. (See Barrow, Samuel, assignor.)						
Sheffer, George M. (See Conner and Sheffer.)						
Sheffer, William. (See McDougall, Robert, assignor.)						
Sheffield, Lucius T., New York, N. Y. Artificial denture	318,579	May 26	2221	593	31	955
Sheffield, Lucius T., New York, N. Y. Artificial denture	318,580	May 26	2222	594	31	955
Sheffield, Lucius T., New York, N. Y. Artificial tooth	330,431	Nov. 17	1357	362	33	780
Sheffield Velocipede Car Company. (See Hagan, John A., assignor.)						
Sheffield, Washington W., New York, N. Y. Support for artificial dentures	318,581	May 26	2224	594	31	956
Sheffler, John H., Pittsburg, Pa. Device for mixing natural gas and cold air	330,932	Nov. 24	2005	541	33	910
Shehan, Thomas, Cleveland, assignor of one-third to J. T. Brady, Columbus, Ohio. Device for locking bars	330,266	Nov. 10	1125	290	33	728
Sheip, Henry H., Philadelphia, Pa. Wood-working machine	325,279	Sept. 1	67	20, 21	32	1028
Shelbourne, Sidney F., New York, N. Y. Electrical conductor	313,380	Mar. 3	478	125	30	866
Shelburne, Cephas, Richmond, Va. Gas-engine	332,447	Dec. 15	1750	457 458	33	1324
Shelburne, Cephas, Richmond, Va., assignor to J. G. Pulling, Columbus, Ohio. Gas-engine.	322,650	July 21	1668	441 442	32	319
Shelby, Christopher C., New York, N. Y. Garter	312,297	Feb. 17	1155	315	30	578
Shelby, Christopher C., New York, N. Y. Suspender-buckle	313,628	Mar. 10	802	210	30	935
Shelby, Christopher C., New York, N. Y. Stocking-supporter	320,301	June 16	1823	424	31	1394
Shelby, Christopher C., New York, N. Y. Cuff-holder	320,404	June 16	2008	527	31	1428
Shelby, Christopher C., New York, N. Y. Suspender-buckle	320,405	June 16	2009	527	31	1428
Shelby, Christopher C., New York, N. Y. Garment-supporter	321,647	July 7	318	84	32	61
Shelby, Christopher C., New York, N. Y. Garment-supporter	321,648	July 7	319	85	32	61
Shelby, Christopher C., New York, N. Y. Clasp	322,955	July 28	2146	570	32	414
Shelby, Christopher C., New York, N. Y. Garment-supporter	326,162	Sept. 15	1256	322	32	1261
Shelby, Christopher C., New York, N. Y. Buckle	330,518	Nov. 17	1472	394	33	801
Shelden, Bruce H., Oswego, N. Y. Pencil-holder	311,613	Feb. 3	206	58	30	387
Sheldon, Henry, Vienna, Ontario, Canada. Lathe for turning handles.	312,298	Feb. 17	1155	316	30	578
Sheldon, Henry H., Pawtucket, R. I. Damper-cock for atmospheric burners	332,168	Dec. 8	1370	354	33	1250
Sheldon, Henry H., assignor to P. C. Sheldon, Pawtucket, R. I. Removable oven for com- bined coal and gas burning stoves	312,172	Feb. 10	977	267	30	536
Sheldon, John, Birmingham, county of Warwick, England. Machine for rolling screws	315,349	Apr. 7	498	127 128	31	91
Sheldon, Mark A., assignor of one-half to W. H. Starbird, Corry, Pa. Corn-planter	311,382	Jan. 27	1648	450	30	323
Sheldon, Phillip C. (See Sheldon, Henry H., assignor.)						
Sheldon, Philo B., Erie, Pa. Grading-machine	323,536	Aug. 4	200	58, 59	32	559

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Sheldon, Richard B., and J. V. Peacock, Shortsville, assignors to Crown Manufacturing Company, Phelps, N. Y. Fertilizer-distributor	318,045	May 19	1503	403	31	815
Sheldon, Roscoe S., North Greenfield, Wis. Bench-plane	313,540	Mar. 10	687	180	30	914
Sheldon, Thomas, Oxford county of Oxford, England. Machine for splitting wheat	331,165	Nov. 24	2310	626	33	966
Sheldon, William E., Medford, Mass. Cabinet-maker's clamp	318,517	June 9	745	200	31	1194
Shellabarger, Flavins W., Miami County, Ohio. Gate	327,606	Oct. 6	136	32	33	26
Shelley, George, Wilkes-Barre, Pa. Expanding-mandrel	311,788	Feb. 3	424	115	30	422
Shelley, Louisa J., Keokuk, Iowa. Guard for bedsteads	321,649	July 7	321	85	32	61
Shelley, Robert, New York, N. Y., assignor of one-half to O. J. Flynn. Folding chair	327,901	Oct. 6	509	132	33	91
Shelter, Milton C. (See Brolin, Peter, assignor.)						
Shelton, John H., Bridgeport, Conn. Music-leaf turner	318,398	May 19	1968	530	31	902
Shelton, Thomas, McKeesport, Pa., assignor to J. H. Flagler, New York, N. Y. Pipe-coupling	324,598	Aug. 18	1617	445	32	839
Shemwell, Baxter. (See Fraley, David R., assignor.)						
Shenfield, Abraham, New York, N. Y. Suspenders	330,519	Nov. 17	1473	394	33	801
Shenfield, Abraham, and C. Voorhis, New York, N. Y. Suspender-buckle	332,448	Dec. 15	1752	456	33	1324
Shepard, Amos D., Chicago, Ill. Neck-yoke	315,561	Apr. 14	23	217	31	153
Shepard, Charles G., and P. Adams, Jr.; said Adams assignor to W. J. Shepard, Buffalo, N. Y. Toy savings-bank	321,650	July 7	321	85	32	61
Shepard, Charles G., and P. Adams, Jr.; said Adams assignor to W. J. Shepard, Buffalo, N. Y. Toy savings-bank	322,723	Oct. 20	1611	419 420	33	308
Shepard, Charles S. (See Prahar, Louis B., assignor.)						
Shepard, Charles S., assignor to himself and L. B. Prahar, Brooklyn, N. Y. Fastening for bag, pocket-book, and purse frames	319,632	June 9	901	238	31	1223
Shepard & Co., Sidney. (See Tripp and Woeppel, assignors.)						
Shepard, Edmund, et al. (See Long, Edwin, assignor.)						
Shepard, Edwin, Staunton, Va. Rotary shears	326,163	Sept. 15	1257	323	32	1261
Shepard, Elgin R., Northfield, Minn. School-desk	325,981	Sept. 8	1007	257	32	1206
Shepard, Henry W., St. Louis, Mo. Feed-water heater	321,541	July 7	188	50	32	37
Shepard, Henry W., assignor of one-half to A. B. Bowman, St. Louis, Mo. Flanging-machine	314,615	Mar. 31	2130	567	30	1224
Shepard, James. (See Croft, Edward, assignor.)						
Shepard, Jason H., et al. (See Richardson, George W., assignor.)						
Shepard, Otis, et al. (See Sabin, Alvah H., assignor.)						
Shepard, Robert R., New York, N. Y. Metallic railway-tie and fastener	325,020	Aug. 25	2207	606	32	955
Shepard, Sylvander C., assignor of one-half to L. Miller, Akron, Ohio. Grain-binder	322,015	July 14	832	218	32	160
Shepard, Sylvander C., assignor of one-half to J. Rawling, Akron, Ohio. Speed-indicator for shafts, pulleys, and axles	324,042	Aug. 11	858	228	32	690
Shepard, Walter J. (See Shepard and Adams, assignors.)						
Shepard, William A., Elgin, Ill. Spirometer	331,820	Dec. 8	686	222	33	1160
Shepherd, Charles D. (See Hathaway, George M., assignor.)						
Shepherd, Charles C., Passaic, N. J. Machine for gluing slate and other frames	312,391	Feb. 17	1276	352	30	602
Shepherd, Henry S. (See Hendricks, Adam C., assignor.)						
Shepherd, Leven W., et al. (See Newman, Nelson, assignor.)						
Shepherd, Sarah A., Washington, D. C. Sewing-machine treadle	323,262	Dec. 29	2206	760	33	1544
Shepherd, Thomas W., assignor to E. W. Upton, Peabody, Mass. Thermometer	330,161	Nov. 10	993	290	33	702
Sheppard, John L., Charleston, S. C. Cotton-press	321,542	July 7	129	50, 51	32	37
Shepperd, Sylvanus D., Pittsford, N. J. Governor for animal-powers	317,586	May 12	886	227	31	693
Sherburne, Charles W. (See Kettell, James F., assignor.)						
Sherburne, Charles W., Boston, Mass. Sight-feed oil-cup or lubricator	319,519	June 9	747	200	31	1195
Sherer, Freeman H. (See Leonard and Sherer.)						
Sheridan, John J. (See Beaumont, Robert L., assignor.)						
Sherman, Daniel H., Buffalo, N. Y. Stop-valve box for water or other main and service pipes	313,541	Mar. 10	689	180	30	914
Sherman & Delaplaine. (See Lovegrove, Thomas G., assignor.)						
Sherman, Edward, New Pendleton, Ind. Grain separator and cleaner	310,734	Jan. 13	735	200	30	146
Sherman, Edwin F., Springfield, Mass. Feed-cutter	314,226	Mar. 24	1661	441 442	30	1111
Sherman, Hamilton, Waverly, Pa. Saw-filing machine	310,735	Jan. 13	736	200	30	146
Sherman, Jacob S., Cassopolis, Mich. Device for removing dust, &c., from hay during the process of baling	313,960	Mar. 17	1271	331	30	1030
Sherman, Jeremiah G., West McHenry, Ill. Farm-gate	325,123	Aug. 25	2338	643	32	980
Sherman, John M. (See Anderson and Sherman.)						
Sherman, Mortimer, Lowell, Mass. Apparatus for moistening the air in cotton-mills, &c.	324,043	Aug. 11	859	238	32	690
Sherman, Nicholas W., assignor of one-half to D. Ellis, Coldwater, Mich. Two-wheeled vehicle	325,772	Sept. 8	754	198	32	1161
Sherman, Wallace D., Grand Rapids, Mich. Saw-sawage	326,164	Sept. 15	1268	323	32	1261
Sherman, William F., Chicago, Ill. Superstructure of elevated railways	318,213	May 19	1715	459	31	866
Sherman, William G., et al. (See Williams and Milles, assignors.)						
Sherman, William W., Milwaukee, Wis. Producing photographs in permanent pigments	332,364	Dec. 15	1643		33	1305
Sherman, Willis D. (See Carson and Sherman.)						
Sherred, Alfred L., Venango, Pa. Windmill	321,760	July 7	478	196	32	69
Sherriff, William J., Allegheny City, Pa. Injector	332,953	Dec. 22	2462	651	33	1460
Sherry, Patrick P., et al. (See Lord, James L., assignor.)						
Sherwood, Alphonso S. (See Mosier, John L. H., assignor.)						
Sherwood, Charles B., Buffalo, N. Y. Safety receptacle for opera-glasses in theaters, &c.	319,518	June 9	746	200	31	1194
Sherwood, George F., assignor to G. T. Smith Middlings Purifier Company, Jackson, Mich. Middlings-purifier	330,745	Nov. 17	1756	473	33	856
Sherwood, George H., et al. (See Lees, Henry C., assignor.)						
Sherwood, Henry C., Bridgeport, Conn. Corset-stay	323,219	July 28	2470	656	32	473
Sherwood, James A., assignor of one-half to J. W. Gilkey, Plainwell, Mich. Jeweler's dust-box	320,593	June 23	2258	597	31	1483
Sherwood, James H., assignor to E. McDonnell, C. D. Dean, J. R. Snell, and H. O. Bryan, Amsterdam, N. Y. Knitting-machine	318,515	May 26	2125	573	31	941
Sherwood, John W. (See Sherwood, Josiah W. and J. W.)						
Sherwood, Josiah W. and J. W. Grand Rapids, Mich. Carriage-bow slat	328,526	Oct. 20	1329	344	33	258
Shickle, Frederick, St. Louis, Mo. Hoisting-block	312,663	Feb. 24	1644	453	30	679
Shickle, Frederick, St. Louis, Mo. Fire-escape	312,908	Feb. 24	1966	537	30	735
Shickle, Frederick, St. Louis, Mo. Fire-escape	312,909	Feb. 24	1968	538	30	736
Shickle, Frederick, St. Louis, Mo. Fire-escape	312,910	Feb. 24	1969	539	30	736
Shickle, Frederick, St. Louis, Mo. Core-bar	318,520	June 9	746	200	31	1195
Shideler, John W., Indianapolis, Ind. Rack for exhibiting small wares	317,866	May 12	1257	334	31	761
Shiek, D. W., et al. (See Cole, Cary O., assignor.)						
Shiek, Daniel W., assignor of two-thirds to C. O. Cole, Lettville, Iowa, and E. G. Grosjean, Mount Eaton, Ohio. Mechanical automatic selling-machine	329,225	Oct. 27	2318	600	33	444

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Shields, Benjamin F., Oskaloosa, Iowa. Coffee or nut roaster	324,599	Aug. 18	1618	445	32	840
Shields, James H., <i>et al.</i> (See Seymour, William S., assignor.)						
Shields, James H., assignor to himself, J. W. Lavery, and T. F. Shea, Boston, Mass. Swing- ing chair	317,027	May 5	196	32	31	545
Shields, James H., assignor to himself, J. W. Lavery, and T. F. Shea, Boston, Mass. Swing- ing chair	317,028	May 5	127	32	31	546
Shilling, Thomas L. (See Pew and Shields.)						
Shilling, David and W. W., Troy, Ohio. Wind-engine	320,182	June 16	1256	440	31	1365
Shilling, Jesse, Sr., and Jesse, Jr., Troy, Ohio. Weather-strip	329,226	Oct. 27	2330	601	33	444
Shilling, Townsend. (See Pleukarp and Shilling.)						
Shilling, William W. (See Shilling, David and W. W.)						
Shimer & Co. (See Roberts, Morris F., assignor.)						
Shimer, Samuel J., Milton, Pa. Gage for cutter-heads	319,751	June 9	1052	278	31	1251
Shimer, Samuel J., Milton, Pa. Cutter-head	319,933	June 9	1315	346	31	1296
Shipe, Walter S., Minerva, Ohio. Chain-saw	323,602	Aug. 4	289	68	32	575
Shipe, Walter S., Minerva, Ohio. Chain-saw	325,364	Sept. 1	181	48	32	1048
Shipperd, William C., Cleveland, Ohio. Clip king-bolt	316,191	Apr. 21	1679	440	31	318
Shipperd, William C., Cleveland, Ohio. King-bolt	316,192	Apr. 21	1680	440	31	319
Shipley, Alfred J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Man- ufacture of buttons	317,226	May 5	407	102	31	598
Shipley, John. (See Winebrener, John, assignor.)						
Shipley, John Q. (See Zimmerman and Shipley.)						
Shipley, Malcolm A., Philadelphia, Pa. Device for holding artificial flies, hooks, &c	326,794	Sept. 22	2134	555	32	1428
Shipley, Morris S. (See Turrell and Shipley.)						
Shipman's Sons, Asa L. (See Davison, Frank G., assignor.)						
Shippoe, Peter J., Fowler, N. Y. Churn	315,847	Apr. 14	1902	313	31	225
Shippoe, Horatio G., Philadelphia, Pa. Feed-cutter	331,453	Dec. 1	283	77	33	1049
Shirley, Frederick S., New Bedford, Mass. Manufacture of glass and articles therefrom	332,294	Dec. 15	1540	403	33	1287
Shirley, Willis H., Glenwood, Mich. Bee-hive	323,220	July 28	2471	657	32	474
Shive, David, Philadelphia, Pa. Spring-motor	328,724	Oct. 20	1612	420	33	308
Shively, Elizabeth, and M. E. Clark, Toana, Nev. Vest-pattern	330,162	Nov. 10	999	260	33	703
Shobe, Abraham A., Jerseyville, Ill. Railway-tie support	323,455	Aug. 4	92	27	32	540
Shock, H. R. (See Kornbau, Daniel, assignor.)						
Shoemaker, Charles T., assignor to H. H. C. W., and J. S. Dieston, Philadelphia, Pa. Man- ufacture of saws	324,000	Aug. 18	1619	446	32	840
Shoemaker, George W., Dalton, Pa. Friction-bearing	311,925	Feb. 10	693	172	30	472
Shoenberger & Co. (See Young, William D., assignor.)						
Shoeninger, Adolph, Lake View, Ill. Boat propeller	328,527	Oct. 20	1330	345	33	258
Shoensmith, Edward W., assignor of one-half to G. Breon, Lena, Ill. Machine for winding fence-wire	324,887	Aug. 25	2029	556	32	922
Sholes, Marion, Rochester, N. Y. Roller-skate	328,072	Oct. 13	738	192	33	140
Sholl, Charles, deceased; J. W. Marshall, Stamford, Conn., administrator. Ore-stamp	318,193	May 19	1688	452	31	851
Shoninger, B. (See Lomas, John R., assignor.)						
Shook, Levi, Pittsburg, Pa. Piston-rod packing	315,350	Apr. 7	501	128	31	92
Shook, Levi, Pittsburg, Pa. Pressure-governor and regulating-valve	320,302	June 16	1824	485	31	1394
Shook, Levi, Pittsburg, Pa. Gage-cock	321,761	July 7	479	196	32	89
Shoots, James D. (See Cook, Shoots, and Staring.)						
Shope, William. (See Hulmes and Shope.)						
Shorey, George L., Lynn, Mass. Dampening-machine	320,977	June 30	2759	733	31	1583
Shorey, Samuel W., Boston, Mass. Rivet	316,841	Apr. 28	2383	675	31	487
Shor-y, William F., Baltimore, Md. Device for operating tramway-switches	322,487	July 21	1459	384	32	281
Shorkey, Edward, and A. Rush, Austintown, Ohio. Whip-socket	312,522	Feb. 17	1467	402	30	636
Short, Henry L. (See Short, William G. and H. L.)						
Short, John, Columbus, Ohio. Chair	326,165	Sept. 15	1259	323	32	1261
Short, John N., assignor to Cambria Iron Company, Johnstown, Pa. Machine for slitting metal	311,263	Jan. 27	1476	403	30	292
Short, Robert L., assignor to New Doty Manufacturing Company, Janesville, Wis. Horse hay-fork	312,026	Feb. 10	772	210	30	499
Short, Robert L., Janesville, Wis., assignor to Springfield Machine Company, Springfield, Ohio. Hay elevator and carrier	320,594	June 23	2258	598	31	1483
Short, Sidney H., Denver, Colo. Electric-arc lamp	310,136	Jan. 13	738	201	30	146
Short, Sidney H., Denver, Colo. Cut-out for electric apparatus	312,242	Feb. 10	1065	283	30	554
Short, Sidney H., Denver, Colo. Feed-regulator for electric-arc lamps	312,243	Feb. 10	1066	293	30	554
Short, William G. and H. L., Larue, Ohio. Tellurian	311,264	Jan. 27	1478	404	30	292
Shortess, Stephen T., Vinton, Iowa. Device for overcoming dead-centers	331,914	Dec. 8	992	257	33	1184
Shortleeve, David, assignor to E. A. Morse, Rutland, Vt. Sand and water feed mechanism	315,848	Apr. 14	1203	314	31	225
Shortleeve, David, assignor to E. A. Morse, Rutland, Vt. Machine for feeding sand and water to stone-sawing machines	315,562	Dec. 1	443	115	33	1076
Shotta, Isaac P., Linden, Ind. Extension-shank for bits, &c	315,079	Apr. 7	126	30	31	25
Shoup, Joel O., <i>et al.</i> (See Schmidt, Theodore, assignor.) (Reissue.)						
Showalter, John W., and G. W. Manger, Pottstown, Pa. Window-grating	322,328	July 14	1228	322	32	234
Shrawder, John S., Upper Dublin, Pa. Fire-extinguisher	311,204	Jan. 27	1389	379	30	276
Shreffler, Samuel, Jr., Joliet, Ill. Door-hanger	322,488	July 21	1460	384	32	282
Shriver, Robert, <i>et al.</i> (See Allfree, James B., assignor.)						
Shrock, Amos E., and J. Lehman, Goshen, Ind. Hand broadcast-seeder	315,562	Apr. 14	824	217	31	153
Shroeder, Leopold C., Jamestown, N. Y. Feed-regulator	324,888	Aug. 25	2031	556	32	923
Shuck, John M., Des Moines, Iowa. Bee-hive	329,341	Oct. 27	2490	642	33	475
Shuck, John M., Des Moines, Iowa. Bee-hive	333,168	Dec. 29	2774	727	33	1520
Shufelt, Calvin P., assignor of one-half to J. P. and H. A. Adams, Sandwich, Ill. Knot- ting mechanism for grain-binders	312,809	May 26	2524	674	31	1010
Shufflebarger, Simon and W. Eddyville, Ill. Journal-box	321,651	July 7	323	86	32	62
Shufflebarger, Willis. (See Shufflebarger, Simon and W.)						
Shular, Lewis H., Crawfordsville, Ind. Car-coupling	328,250	Oct. 13	970	253	33	144
Shuler, David, New Dover, Ohio. Flour-chest	324,419	Aug. 18	1389	378	32	797
Shuler, Isaac C., Amsterdam, N. Y. Case for coffins	317,029	May 5	128	33	31	546
Shuler, Isaac C., Amsterdam, N. Y. Coffin	330,432	Nov. 17	1358	362	33	780
Shuman, George W., Pleasant Hill, Ohio. Weather-strip	329,962	Nov. 10	729	186	33	648
Shumway, Edward G. (See Starkweather, Gleason F., assignor.)						
Shunk, Benjamin, Jacksonville, Fla. Shipping box or crate	312,173	Feb. 10	979	267	30	537
Shupe, Eli, Racine, Wis. Opera-chair	327,096	Sept. 29	2445	639	32	1492
Shuster, Lawrence, Jr., Philadelphia, Pa. Water-cock attachment	311,205	Jan. 27	1391	380	30	276

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Shute, Orlando, Cooperstown, N. Y. Securing hop-strings.....	314,198	Mar. 17	1571	415	30	1085
Shute, Richard G., Edgartown, Mass. Bell for bicycles.....	310,620	Jan. 13	589	162	30	119
Shutt, Robert D., Capac, Mich. Detachable wagon-stake.....	311,206	Jan. 27	1391	380	30	276
Siar, William, Rimersburg, Pa. Churn.....	314,399	Mar. 24	1837	489	30	1145
Sibley, Aaron L., et al. (See Benedict, Jacob, assignor.)						
Sibley, Dennis E., Chicago, Ill. Grain-drier.....	323,321	July 28	2472	657	32	474
Sibley, Frank A., Newport, N. H. Manufacture of pronged hoes.....	320,978	June 30	2760	734	31	1583
Sibley, Josiah. (See Wood, William, assignor.)						
Sibley, Lewis. (See Brown and Sibley.)						
Sibley, William J., assignor to G. H. Clarke, Brooklyn, N. Y. Grate-bar.....	312,027	Feb. 10	773	210	30	500
Sickler, Edward E. (See Sickler, Jacob and E. E.)						
Sickler, Jacob, Otterbein and E. E. Sickler, Indianapolis, Ind. Sulky-plow.....	315,563	Apr. 14	825	{ 217 218 }	31	153
Siddall, Thomas. (See May and Siddall.)						
Siddall, Thomas, Trenton, N. J. Pipe-coupling.....	317,030	May 5	130	33	31	546
Siddons, George W., Chariton, Iowa. Harrow.....	312,523	Feb. 17	1469	402	30	636
Siebel, John, Oskaloosa, Iowa. Harness attachment.....	321,652	July 7	394	86	32	82
Sieber, Charles, and F. H. Borntraeger, Waterloo, Ill. Burial-casket.....	320,495	Nov. 3	08	25	33	523
Siebert, Frederick, St. Louis, Mo. Self-lubricating journal-box.....	314,731	Mar. 31	2283	606	30	1252
Siebert, Frederick, St. Louis, Mo. Pulley.....	319,140	June 2	255	66	31	1094
Siedhof, Charles F. W. (See Schimper and Siedhof.)						
Sieg, John A. (See Stine, John, assignor.)						
Siegel, Abraham, et al. (See Harrison, Thomas B., assignor.)						
Siegert, Amel, Grayville, Ill. Gate.....	331,166	Nov. 24	2311	626	33	967
Siegfried, John P. (See McCrystal and Siegfried.)						
Sieghörtnier, August L., Jr., St. Louis, Mo., assignor to himself and T. H. Mueller, New York, N. Y. Centrifugal machine.....	320,595	June 23	2260	598	31	1483
Siegmöner, Conrad, Hamilton, Ohio. Plow.....	319,031	June 2	120	33	31	1070
Siemens Brothers & Company. (See Raworth, John S., assignor.)						
Siemens, Ernst W., Berlin, Germany. Conveying persons, &c., by electro-motive force.....	321,834	July 7	730	{ 188 189 }	32	130
Siemens, Ernst W., Berlin, Germany. Electric railway.....	322,859	July 21	1952	{ 516 517 }	32	371
Siemens, Ernst W., Berlin, Germany. Electric railway.....	324,176	Aug. 11	1040	{ 224 225 }	32	723
Siemens, Frederick, Dresden, Saxony, Germany. Gas-lamp.....	313,779	Mar. 10	1005	290	30	973
Siemens, Frederick, Dresden, Saxony, Germany. Gas-burner.....	323,537	Aug. 4	202	59	32	580
Sievert, Abraham. (See Bense and Sievert.)						
Sigerson, Ambrose W., Burlington, Iowa. Key-fastener.....	328,725	Oct. 20	1614	420	33	309
Sigler, George R. and W. G., assignors of one-half to C. Barkholder, Decatur, Pa. Harvester-cutter.....	323,745	Aug. 4	472	133	32	612
Sigler, William G. (See Sigler, George R. and W. G.)						
Sigourney Tool Company. (See Thompson, Thomas H., assignor.)						
Sikes, Albert D., Buffalo, N. Y. Belt-fastener.....	332,449	Dec. 15	1753	458	33	1324
Sikes, Thomas E. (See Bruce and Sikes.)						
Silberberg, Rudolf, Brooklyn, assignor to H. W. Hoop, Sr., New York, N. Y. Manufacture of cream of tartar.....	313,629	Mar. 10	803		30	935
Silberberg, Rudolf, assignor of one-half to H. W. Hoops, Jr., Jersey City, N. J. Chromium mordant.....	319,032	June 2	121		31	1070
Silberberg, Rudolph, assignor of one-half to H. W. Hoops, Jr., Jersey City, N. J. Dyeing.....	320,890	June 23	2538		31	1536
Silberberg, Rudolph, assignor of one-half to H. W. Hoops, Jr., Jersey City, N. J. Mordant.....	320,821	June 23	2539		31	1536
Silbernik, Joseph, New York, N. Y. Combined galley-rest, copy-holder, and copy-guide.....	332,954	Dec. 22	2463	659	33	1460
Silliman, Erva B., Bridgeport, Conn. Making magnets self-keeping.....	331,830	Dec. 8	868	{ 222 223 }	33	1160
Silliman, James R. (See Scales, Charles H., assignor.)						
Sillman, Henry R., Brooklyn, N. Y. Sludge-box.....	329,227	Oct. 27	2322	{ 601 602 }	33	444
Silabec, Jonathan C., Arbelia, Mich. Lifting-jack.....	326,340	Sept. 15	1506	393	32	1308
Silver, John S., et al. (See Fuller, Charles A., assignor.)						
Silver, Thomas, assignor to O. D. Lovell, New York, N. Y. Mechanical lamp.....	329,600	Nov. 3	243	63	33	551
Silver, William B., Cleveland, Ohio. Napkin-supporter.....	329,963	Nov. 10	730	186	33	648
Silver, William H., New York, assignor of one-half to J. H. Ernst, Brooklyn, N. Y. Egg-poacher.....	329,859	Nov. 3	587	150	33	615
Silver, William H., New York, assignor of one-half to J. H. Ernst, Brooklyn, N. Y. Egg-timer.....	333,350	Dec. 29	3025	790	33	1565
Silverberg, Marcus, Chicago, Ill. Permanent file for letters, invoices, &c.....	318,516	May 26	2127	573	31	941
Silvers, Daniel, et al. (See Reeves, Albert S., assignor.)						
Simmerly, Albert N., Cleveland, Ohio. Coal or ore bucket or carrier.....	311,789	Feb. 3	425	115	30	426
Simmerly, Albert N., Cleveland, Ohio. Combined clutch and brake.....	312,011	Feb. 24	1969	538	30	736
Simmerly, Albert N., Cleveland, Ohio. Revolving derrick.....	323,538	Aug. 4	204	60.61	32	560
Simmons, Charles W., Providence, R. I., assignor to W. C. Wood, Washington, D. C. Comb-ing-machine and method of working short cotton delivered therefrom.....	318,046	May 19	1505	404	31	816
Simmons, George W., Vernon, Ohio. Running-gear for vehicles.....	320,303	June 16	1825	485	31	1395
Simmons, Jason D., assignor of one-half to M. L. Simmons, Chicago, Ill. Sash-supporter.....	314,201	Mar. 17	1573	416	30	1085
Simmons, John F., Bell's Depot, Tenn. Corn-planter.....	311,683	Feb. 3	294	80	30	404
Simmons, Marion H., assignor of one-half to M. T. Simmons, Kansas City, Mo. Whiffletree-hook.....	313,780	Mar. 10	1006	260	30	973
Simmons, Martin T. (See Simmons, Marion H., assignor.)						
Simmons, Mary L. (See Simmons, Jason D., assignor.)						
Simms, William, Lebanon, Tenn. Horse and mule poke.....	314,883	Mar. 31	2509	665	30	1294
Simon, Julius, New York, N. Y. Shirt or shirt-waist.....	327,329	Sept. 29	2844	742	32	1563
Simon & O'Neill. (See Desmond, John, assignor.)						
Simonds, Alvan A., Dayton, Ohio. Bed-plate for pulp-engines.....	310,230	Jan. 6	87	23	30	19
Simonds Counter Machinery Company. (See Willoughby, John M., assignor.)						
Simonds, George F., Fitchburg, Mass. Machine for forging car-axes and other metal articles.....	319,752	June 9	1053	{ 278 279 }	31	1251
Simonds, George F., Fitchburg, Mass. Machine for making car-wheels.....	319,753	June 9	1054	279	31	1251
Simonds, George F., Fitchburg, Mass. Die for forging metal articles circular in cross-section.....	319,754	June 9	1055	280	31	1251
Simonds, George F., Fitchburg, Mass. Forging metal bars.....	319,755	June 9	1056	280	31	1252
Simonds, George F., Fitchburg, Mass. Die for spherical articles.....	319,756	June 9	1057	{ 280 281 }	31	1252
Simonds, George F., Fitchburg, Mass. Device for inserting and withdrawing removable saw-teeth.....	326,683	Sept. 22	1952	512	32	1397

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Simonds, George F., Fitchburg, Mass. Saw with insertible teeth.....	326,684	Sept. 22	1953	513	32	1397
Simonds, George F., Fitchburg, Mass. Insertible-tooth saw.....	326,685	Sept. 22	1954	513	32	1397
Simonds, George F., and L. Blake, Fitchburg, Mass. Saw-swinging machine.....	328,598	Oct. 20	1331	345	33	258
Simonds, Gustavus B., assignor of one-half to L. B. Rhoads, Sedalia, Mo. Cylinder-piston packing.....	331,454	Dec. 1	284	78	33	1049
Simonds, Nathan J. (See Stackpole, Charles F., assignor.).....						
Simonds, William E., Hartford, Conn. Silo.....	325,365	Sept. 1	182	48	32	1048
Simonds, William P., Competine, Iowa. Safety attachment for horned cattle.....	325,021	Aug. 25	2209	606	32	955
Simonis, Iwan, Verviers, Belgium. Apparatus for dyeing.....	318,144	May 19	1631	436	31	840
Simons, George W., Cooper's Plains, N. Y. Thill-coupling.....	317,421	May 5	608	169	31	644
Simons, Paul, Darmstadt, Hesse, Germany. Tile.....	320,822	June 23	2540	673	31	1536
Simons, Robert. (See Bird and Simons.).....						
Simonsen, Daniel W., Tottenville, N. Y. Apparatus for preserving and transporting oysters, &c.....	314,732	Mar. 31	2284	606	30	1252
Simonsen, Sali, New York, N. Y. Cap.....	317,031	May 5	131	33	31	546
Simonton, Thomas C., et al. (See Hayward, Jacob L., assignor.).....						
Simonton, Thomas C., Paterson, N. J. Steaming and ore-scouring apparatus.....	323,456	Aug. 4	93	27	32	540
Simpson, Alexander and E. R., Scranton, and M. Speicher, Archbald, Pa. Lubricator for pistons and cylinders.....	316,492	Apr. 28	2003	548	31	397
Simpson, Alexander and E. R., Scranton, and M. Speicher, Archbald, Pa. Lubricator for pistons and cylinders.....	331,931	Dec. 8	870	923	33	1161
Simpson, Andrew J., Lowell, Mass. Automatic heat-regulator for cooking-vessels, &c.....	332,205	Dec. 15	1541	404	33	1287
Simpson, Anson D., Niverville, N. Y. Friction-clutch.....	320,007	June 16	1486	375	31	1323
Simpson, C. L. (See Dexter, Orel K., assignor.).....						
Simpson, Ella R. (See Simpson and Speicher.).....						
Simpson, Henry C., assignor of one-half to P. Wilcox, East Saginaw, Mich. Smoke-stack.....	312,912	Feb. 24	1971	539	30	736
Simpson, Henry S., Connersville, Ind. Double bed.....	327,829	Oct. 6	424	110	33	74
Simpson, James H., W. G. Gladhill, and C. Gailliot, assignors to Wilson, Walker & Co. (limited), Pittsburgh, Pa. Link-bending machine.....	318,517	May 26	2129	574	31	941
Simpson, James H., assignor to Wilson, Walker & Company, (limited), Pittsburgh, Pa. Apparatus for manufacturing draw-bars.....	328,435	Oct. 13	1216	315	33	230
Simpson, James H., assignor to Wilson, Walker & Company, (limited), Pittsburgh, Pa. Manufacturing draw-bars.....				316		
Simpson, Jerome W., Newark, N. J. Extracting gold, silver, and copper from their ores.....	328,436	Oct. 13	1220	316	33	231
Simpson, Joel E., Newark, N. Y. Fertilizer-distributor.....	323,222	July 28	2473		32	474
Simpson, John M., assignor of one-half to S. Toms, Maitaville, N. Y. Thill-coupling.....	316,071	Apr. 21	1512	395	31	287
Simpson, Joseph C., Oakland, Cal. Horseshoe-nail.....	332,643	Dec. 22	2305	607	33	1430
Simpson, Joseph I. M. Hatcher, and H. E. Wildermuth, assignors to Economy Halter and Bridle Trimming Company, Columbus, Ohio. Buckle.....	310,231	Jan. 6	88	23	30	19
Simpson, Lenox. (See Nugent, Richard C., assignor.).....	329,860	Nov. 3	588	151	33	615
Simpson, Lenox. (See Pease, William M., assignor.).....						
Simpson, Lenox, Pittsburgh, Pa. Apparatus for tanning.....	313,542	Mar. 10	629	181	30	914
Simpson, Lenox, Pittsburgh, Pa. Apparatus for tanning.....	314,199	Mar. 17	1572	416	30	1085
Simpson, Lenox, Pittsburgh, Pa. Apparatus for tanning.....	314,900	Mar. 17	1573	416	30	1085
Simpson, Lenox, Pittsburgh, and J. Davis, Allegheny City, Pa. Apparatus for tanning.....	313,543	Mar. 10	690	181	30	915
Simpson, Lenox, Bellevue, Pa. Tanning apparatus.....	332,450	Dec. 15	1753	458	33	1324
Simpson, Lenox, Bellevue, Pa. Tanning apparatus.....	332,451	Dec. 15	1756	459	33	1325
Simpson, Lyman, F. M. Lottridge, and W. Carter, Jonesborough, Ind. Pessary.....	312,664	Feb. 24	1646	453	30	680
Simpson, Peter L., Minneapolis, Minn. Brick-machine.....	315,849	Apr. 14	1906	314	31	236
Simpson, Thomas J., Worthington, Minn. Horizontal wind-wheel.....	325,366	Sept. 1	183	48	32	1048
Simpson, Thomas J., Worthington, Minn. Wind-wheel.....	326,166	Sept. 15	1259	323	32	1262
Simpson, Thomas J., Worthington, Minn. Ventilator.....	327,330	Sept. 29	2845	742	32	1563
Simpson, Thomas J., Worthington, Minn. System of ventilation.....	328,818	Oct. 20	1716	447	33	329
Smirrl, Robert E., Newnan, Ga. Corn-planter and guano-distributor.....	332,955	Dec. 22	2464	652	33	1460
Sims, John B., Yellville, Ark. Gear for transmitting motion.....	327,730	Oct. 6	303	77	33	53
Sims, John W., Jamestown, Ark. Gate.....	319,333	June 9	488	131	31	1141
Sims, Peter H., and P. Hohmeier, Waterloo, county of Waterloo, Ontario, Canada. Hot-air stove.....	316,493	Apr. 28	2004	548	31	397
Sims, Winfield S., Newark, N. J. Torpedo-boat propelled and steered by electricity.....	319,693	June 9	901	239	31	1223
Sinclair, Ellis W., Tombstone, Ariz. Ter. Ore-concentrator.....	319,857	June 9	1206	318	31	1277
Sinclair, Francis A., Mottville, N. Y. Metal splice for uniting the ends of cane strips for chair-seatings.....	327,731	Oct. 6	304	78	33	53
Sinclair, James E., Waverly, Md. Wool-washing machine.....	330,163	Nov. 10	1000	261	33	703
Sinclair, Susan L., Allegheny, Pa. Filling the recesses in the tread of car-wheels.....	315,060	Apr. 7	128	30	31	25
Sinderson, Charles H., Rockford, Ill. Middlings-purifier.....	327,607	Oct. 6	138	33	33	26
Singer Manufacturing Company of New Jersey. (See Bradford, Erasmus F., assignor.).....						
Singer Manufacturing Company of New Jersey. (See Bryden, Robert C., assignor.).....						
Singer Manufacturing Company of New Jersey. (See Clark, William R., assignor.).....						
Singer Manufacturing Company of New Jersey. (See Diehl, Philip, assignor.).....						
Singer Manufacturing Company of New Jersey. (See Greene, James G., assignor.).....						
Singer Manufacturing Company of New Jersey. (See Griest, John M., assignor.).....						
Singer Manufacturing Company of New Jersey. (See Griesel, George, assignor.).....						
Singer Manufacturing Company of New Jersey. (See Pentz, Albert D., assignor.).....						
Singer Manufacturing Company of New Jersey. (See Reiss, Hans, assignor.).....						
Singer Manufacturing Company of New Jersey. (See Specs, David F., assignor.).....						
Singer, Markus, assignor to himself and S. Maschke, New York, N. Y. Beer-faucet.....	328,529	Oct. 20	1333	345	33	258
Singer, William F., Carthage, N. Y. Carburetor.....	324,177	Aug. 11	1044	285	32	724
Sinker, Davis & Company. (See Cook, Joseph, assignor.).....						
Snodgett, Philip, New York, N. Y. Potato-digger.....	329,760	Nov. 3	476	120	33	595
Sipe, William A., Monterey, Va. Adjustable rest for books.....	331,563	Dec. 1	445	115	33	1077
Sipf, Louis. (See Brown and Sipf.).....						
Sipperly, William H., Fishkill, assignor of one-half to W. H. Jackson, Matteawan, N. Y. Harness-saddle.....	311,856	Feb. 3	512	138	30	444
Sisk, Frank M., Newnan, Ga. Gin-saw-filing machine.....	326,167	Sept. 15	1261	324	32	1262
Sisson, James A., Greenwich, R. I. Filling-bobbin.....	320,008	June 16	1427	375	31	1323
Sisum, William H. H., Brooklyn, N. Y. Endless-rope railway.....	321,913	Feb. 24	1972	539	30	737
Sisum, William H. H., Brooklyn, N. Y. Car-truck.....	321,392	June 30	3226	878	31	1681
Sisum, William H. H., Brooklyn, N. Y. Riveting-machine.....	326,252	Sept. 15	1389	361	32	1285

Alphabetical list of patents—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. &	Vol.	Page.
Sitler, Jesse R., Axtell, Kans. Grain-drier	394,737	Aug. 18	1814	501	32	878
Sitterley, Reuben T., Carthage, Mo. Time and interest indicator	393,757	July 21	1810	478	32	345
Sjoberg, Carl J. A., (See Egge and Sjoberg.)						
Skaggs, Newton J., Montgomery, Ala. Tire-tightener	310,918	Jan. 20	976	265	30	194
Skaggs, Newton J., Montgomery, Ala. Sash balance	398,347	Oct. 13	1084	929	33	808
Skelton, James A., (See Card, Augustus M., assignor.)						
Skelton, John C., et al., (See Wock, John, assignor.)						
Skene, Charles A., Westmoreland, Kans. Impression-sheet for making stereotype-plates	390,713	June 23	2412		31	1512
Skeritt, William H., Jersey City, N. J. Elevator-hatchway cover	311,684	Feb. 3	285	81	30	404
Skewis, Joseph, (See Taylor and Skewis.)						
Skidmore, Horace G., (See Harman and Skidmore.) (Reissue.)						
Skidmore, Horace G., Cincinnati, Ohio. Watch-key	310,737	Jan. 13	740	901	30	146
Skiles, Daniel D., Edna Mills, Ind. Plow	315,351	Apr. 7	502	129	31	92
Skiles, Robert M., assignor of one-half to W. H. John, Van Orin, Ill. Wagon end-gate	327,830	Oct. 6	424	110	33	75
Skinkle, Jacob W., (See Rankin, Thomas L., assignor.)						
Skinner, A. Frank, assignor of one-half to R. E. Austin, Tama City, Iowa. Thill-coupling	314,733	Mar. 31	2285	607	30	1252
Skinner, Albert L., Yonkers, N. Y. Loom for weaving tufted fabrics	330,069	Nov. 10	877	226 227 228	33	679
Skinner, Albert L., Yonkers, N. Y. Needle-loom	330,070	Nov. 10	883	228 229 230	33	679
Skinner, Alonzo, Warren, Mich. Pulverizer	317,927	May 5	408	102	31	596
Skinner Cash Transmitter Company, (See Skinner, Daniel M., assignor.)						
Skinner, Charles A., et al., (See Rumsey, Charles B., assignor.)						
Skinner, Courtland, Grinnell, Iowa. Barb-wire machine	322,489	July 21	1461	384 385	32	262
Skinner, Daniel M., Center Sandwich, assignor to Skinner Cash Transmitter Company, Littleton, N. H. Parcel-transmitter for stores	322,565	July 21	1566	413	32	300
Skinner, George R., Rockford, Ill. Holdback-iron	319,334	June 2	488	132	31	1141
Skinner, Henry M., Rockford, assignor of one-half to I. M. Alvord, Chicago, Ill. Plow	324,789	Aug. 18	1887	519	32	890
Skinner, John, Newman, Ill. Road grader and leveler	324,178	Aug. 11	1046	265	32	724
Skinner, John, assignor of one-third to R. M. Barker, Flint, Mich. Hay-tedder	311,614	Feb. 3	207	58	30	387
Skinner, John, assignor of two-thirds to A. McColl and O. Stone, Flint, Mich. Car-coupling	326,785	Sept. 22	2134	555	32	1428
Skinner, Merrill R., Hamburg, N. Y. Pulley-block	318,314	May 19	1857	479	31	821
Sladdin, Joseph, Lawrence, Mass. Machine for opening the eyes of loom-harness	324,420	Aug. 18	1390	378 379	32	707
Slafter, J. C., (See Clansen, Adler C., assignor.)						
Slaght, Edwin, Gowanda, assignor of one-half to F. S. Oakes and S. F. Burger, Cattaraugus, N. Y. Milk-can	326,341	Sept. 15	1507	393	32	1308
Slate, Albert W., (See Atwood and Slate.)						
Slate, Dwight, Hartford, assignor to E. Horton & Son Company, Windsor Locks, Conn. Gear-cutter	326,889	Sept. 22	2266	522 523 524	32	1452
Slater, George L., and W. A. Eaton, Buchanan, Mich. Folding bed	332,956	Dec. 22	2465	652	33	1461
Slater, John, (See Doulton and Slater.)						
Slater, Warren G., assignor of three-fourths to J. R. and S. P. Odell and L. V. Davis, Fremont, Mich. Shoe-upper	327,114	Sept. 29	2570	670	32	1513
Slattery, Marmaduke M. M., New York, N. Y., assignor to Sun Electric and Illuminating Company, Manchester, N. H. Armature-core for dynamo-electric machines	330,433	Nov. 17	1359	392	33	780
Slaughter, Lucien P., Montrose, Mo. Kitchen-cabinet	323,223	July 28	2474	657	32	474
Slaughter, Robert K., Brooklyn, N. Y. Manufacturing illuminated fabrics	314,349	Mar. 24	1777	472	30	1133
Slauson, James R., and W. D., Racine, Wis. Baling-press	315,650	Apr. 14	1208	315	31	226
Slauson, Willis D., (See Slauson, James R. and W. D.)						
Slauson, Willis D., Racine, Wis. Baling-press	315,965	Apr. 14	1377	356	31	254
Slauson, Willis D., Racine, Wis. Baling-press	315,966	Apr. 14	1378	356 357	31	255
Slauson, Willis D., Racine, Wis. Power for baling-presses	319,858	June 9	1209	319	31	1277
Slawson, Amsey L., New Orleans, La. Wagon-loading machine	311,226	Feb. 10	623	170	30	472
Slaybaugh, Eli H., Alliance, Ohio. Railway block-signal	329,092	Oct. 27	2131	551	33	406
Slayton & Whiting, (See Whiting, Stiles H., assignor.)						
Sleater, Robert L., St. John's, Newfoundland. Mariner's compass	320,823	June 23	2540	673	31	1536
Sledge, Clarence L., Kyle, Tex. Car-brake	322,490	July 21	1464	385	32	229
Sleep, William H., St. Germans, county of Cornwall, England. Belt-fastener	316,668	Apr. 28	2312	607	31	418
Sleeper, George W., assignor of one-half to W. A. Reed, Westborough, Mass. Shoe	320,406	June 16	2010	527	31	1428
Sleeper, George W., assignor of one-half to W. A. Reed, Westborough, Mass. Machine for splitting the uppers for shoes	320,407	June 16	2011	528	31	1428
Sleeper, Joseph J., Concord, and H. A. Johns, Media, Pa. Composition for crayons	320,009	June 16	1428		31	1324
Sleicher, John A., Albany, N. Y. Sleeping-car	315,851	Apr. 14	1209	316	31	226
Sleight, Matthew, Lee's Mills, N. C. Remedy for hog-cholera	320,096	June 16	1543		31	1345
Slensby, William P., Brooklyn, N. Y. Thimble	315,671	Apr. 14	963	252	31	180
Slingland, Nicholas, (See Burkett, James, assignor.)						
Sloan, Frank B., (See Clarkson, Frank S., assignor.)						
Sloan, Harvey, Kirksville, Mo. Device for feeding hogs	331,564	Dec. 1	446	115 116	33	1077
Sloan, John O., (See Campbell, George P., assignor.)						
Sloan, Leander E., assignor of one-half to W. G. Collins, Milwaukee, Wis. Air-brake for railway-cars	327,027	Sept. 29	2446	639 640	32	1492
Sloan, Leander E., assignor of one-half to W. G. Collins, Milwaukee, Wis. Air-brake valve	330,164	Nov. 10	1002	262	33	704
Slocum, Franklin R., (See Ford, Jarvis O., assignor.)						
Slocum, William W., Jr., Reed City, Mich. Locomotive ash-pan	320,183	June 16	1658	440	31	1365
Sloop, Jacob, Canton, Kans. Spike-extractor	322,133	July 14	992	258	32	189
Sloper, Byron, New York, N. Y. Generating hydrogen gas	324,179	Aug. 11	1047	266	32	725
Sloper, Byron, New York, N. Y. Steam-boiler furnace	324,889	Aug. 26	2032	556	32	923
Sloper, Byron, New York, N. Y. Manufacturing illuminating gas	322,957	Dec. 23	2465	653	33	1461
Slosson, Eugene, Verona, Ill. Scraper attachment for wheel-plows	322,847	Dec. 23	2306	607	33	1430
Slotterbeck, Charles, Lakeport, Cal. Eyeglasses or spectacles	311,615	Feb. 3	208	59	30	388
Sly, Austin, and H. E. Gile, Lebanon, N. H. Roller washing-machine	327,201	Sept. 29	2688	698	32	1535
Sly, Morgan H., assignor of one-half to P. F. Wood, Adrian, Mo. Curtain-fixture	327,831	Oct. 6	425	110	33	75
Sly, William C., Cleveland, Ohio. Rope or strap attaching device for buckles, snap-hooks, &c.	315,175	Apr. 7	261	63	31	47
Slyder, William J., assignor to Troy Burlap Manufacturing Company, Troy, Ohio. Sash-fastener	319,427	June 2	602	163 164	31	1163

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Smadbeck, Louis, and B. Nathan, New York, N. Y. Ankle-supporting shoe	325,280	Sept. 1	69	21	32	1028
Small, D. M. (See Nash, Charles C., assignor.)						
Small, Henry J., and J. McNaughton, Brainerd, Minn. Car-wheel lathe	330,628	Nov. 17	1800	498	33	826
Small, H. T., et al. (See Freamer and Golding, assignors.)						
Smalley, Albert G. (See Hoyt, Lewis S., assignor.)						
Smalley, Frank F., et al. (See Hoyt, Lewis S., assignor.)						
Smalley, James, Factoryville, Pa. Wagon-tongue support	332,452	Dec. 15	1757	460	33	1325
Smalstig, Fredrick C., Allegheny, assignor of one-half to D. Nichols, Bradford, Pa. Cigar-box	328,617	Oct. 20	1465	381	33	281
Smalstig, William C., Springfield, Mo. Sled-iron	327,331	Sept. 29	2847	742	32	1563
Smart, Don Carlos, Cambridgeport, Mass. Step-ladder	314,267	Mar. 24	1663	442	30	1112
Smart, Ezra, Hartford, Conn. Die-holder for pin-machines	327,028	Sept. 29	2449	640	32	1492
Smart, Terrence P. (See Beecher and Smart.)						
Smead, Charles R., St. Paul, Minn. Holder for legal blanks	322,758	July 21	1811	478	32	345
Smead, Elihu, et al. (See Perry, Clarence E., assignor.)						
Smead, Isaac D., Toledo, Ohio. Dry-closet, &c.	314,884	Mar. 31	2509	665	30	1294
Smead, Isaac D., Toledo, Ohio. School-room heater	315,081	Apr. 7	128	30	31	25
Smead, Isaac D., Toledo, Ohio. Hot-air furnace	326,598	Sept. 22	1833	482	32	1376
Smead, John, Toledo, Ohio. Furnace-grate	324,421	Aug. 18	1392	379	32	797
Smedes, Levi K., Mount Vernon, N. Y. Folding chair	313,381	Mar. 3	479	125	30	866
Smedley, Alfred. (See Henry and Smedley.)						
Smedley, Edwin, assignor to National Iron and Brass Works, Dubuque, Iowa. Vertical drill	313,114	Mar. 3	99	25	30	795
Smetzer, Isaac S., Columbus, Ohio. Fire-escape	322,206	July 14	1085	222	32	206
Smiley, James A., assignor to Smiley, Smith & Co., Memphis, Tenn. Cotton-gin rib	332,296	Dec. 15	1543	404	33	1288
Smiley, Smith & Co. (See Smiley, James A., assignor.)						
Smiley, Thomas M., Farmington, Mo. Churn	311,685	Feb. 3	297	81	30	404
Smit, Willem B., and A. Pot, Slikerveer, Netherlands. Dynamo-electric machine	326,796	Sept. 22	2135	555	32	1422
Smith, A. Beverly. (See Wilber and Smith.)						
Smith, A. Bottles, assignor to W. B. Rankine and B. W. Franklin, Brooklyn, N. Y. Printing-telegraph	316,494	Apr. 28	2095	550	31	397
Smith, Aaron F. (See Blossom, Edwin F., assignor.)						
Smith, Aaron F. (See Wetmore, Joseph C., assignor.)						
Smith, Aaron F., Lynn, Mass. Sole-trimming machine	325,703	Sept. 8	654	165	32	1142
Smith, Adolph T., New York, N. Y. Circuit-closer	325,124	Aug. 25	2339	644	32	980
Smith, Albert, Middleville, Mich., and P. A. Zelle, Dundee, N. Y. Composition for grain-ing wood	328,073	Oct. 13	740		33	140
Smith, Albert E. (See Boyne and Smith.)						
Smith, Allen V., Canton, Ohio. Vehicle-axle nut	321,255	June 30	3112	828	31	1647
Smith, Alson A. (See Polsey and Smith.)						
Smith, Alva C., et al. (See Smith, David R., assignor.)						
Smith, Amasa H., et al. (See Young, Harlan P., assignor.)						
Smith, Andrew. (See Hansen and Smith.)						
Smith, Andrew, and G. H. Albers, Sellwood, Oreg. Bed and bedstead	327,202	Sept. 29	2688	698	32	1535
Smith, Andrew A., assignor of one-half to E. A. Pray, Crested Butte, Colo. Spraying car-wheel and spraying-bar	312,022	Feb. 10	774	211	30	500
Smith, Andrew H. (See Barton, Richard T., assignor.)						
Smith, Artemus J., et al. (See Baldwin, Charles W., assignor.)						
Smith, Azel B., Lowell, Mass. Boiler-tube scraper	331,093	Nov. 24	2205	597	33	948
Smith, Benjamin C., Salem, Mass. Apparatus for manufacturing oil-gas	314,484	Mar. 24	1960	521	30	1167
Smith, Benjamin C., Brooklyn, assignor to F. Adee & Co., New York, N. Y. Stop-cock box	311,265	Jan. 27	1480	405	30	293
Smith, Benjamin C., Salem, assignor of one-fourth to J. G. Crawford, Boston, Mass. Conductor's punch	313,027	Feb. 24	2134	580	30	765
Smith, Benjamin C., and C. W. Pride, Boston, Mass. Thill-coupling	323,726	Oct. 20	1615	420	33	309
Smith, C. Haldridge, Anamosa, Iowa. Wall-bracket	325,456	Sept. 1	324	78	32	1077
Smith, Caleb P., Clyde, Mo. Remedy for hog-cholera	317,228	May 5	409		31	598
Smith, Calvin D., Templeton, assignor of one-half to A. H. C., and A. E. Knowlton, West Gardner, Mass. Wood-dressing machine	327,203	Sept. 29	2690	699	32	1535
Smith, Carlos A., Brooklyn, assignor of one-eighth to M. S. Frost & Son, New York, N. Y. Electric signs and call apparatus	322,142	Oct. 13	832	217	33	158
Smith, Castle, Queen Victoria Street, London, England. Electric-light attachment for apparatus	332,453	Dec. 15	1758	460	33	1325
Smith, Charles, Marquette, Mich. Baling-press	322,551	July 21	1671	443	32	319
Smith, Charles, Belleville, N. J. Dandy-roll for paper-making machines	329,001	Nov. 3	244	63	33	551
Smith, Charles A., Minerva, Ohio. Railway-car roof	325,634	Sept. 1	532	140	32	1120
Smith, Charles A., Jackson, Mich. Middlings-purifier	330,746	Nov. 17	1758	474	33	857
Smith, Charles A., Pawtucket, R. I. Scale and rule holder	332,958	Dec. 22	2467	653	33	1461
Smith, Charles F., New York, N. Y. Propelling device for boats	314,734	Mar. 31	2286	607	30	1252
Smith, Charles H., assignor to Western Wheel Scraper Company, Mount Pleasant, Iowa. Sand-band for vehicles	319,522	June 9	750	201	31	1195
Smith, Charles L., Jamestown, N. Y. Distributing mechanism for seeding-machines	325,125	Aug. 25	2340	644	32	981
Smith, Charles R., and J. B. Adams, Cheboygan, Mich. Clamp	319,521	June 9	749	201	31	1195
Smith, Charles W., Westerly, R. I. Spokeshave	325,571	Sept. 1	476	118	32	1106
Smith, Charles W., Woburn, Mass. Store-service apparatus	330,629	Nov. 17	1601	428	33	826
Smith, Chester. (See Souders, Smith, Craighead, and Souders.)						
Smith, Clarence E. (See Karges and Smith.)						
Smith, Clement, assignor to C. J. Baker, Topeka, Kans. Aligner for type-writing machines	325,635	Sept. 1	553	141	32	1120
Smith, Clement, assignor to C. J. Baker, Topeka, Kans. Type-aligner for type-writing machines	326,062	Sept. 8	1121	285	32	1229
Smith & Co., H. D. (See Ward, William S., assignor.)						
Smith & Co., R. H., et al. (See Rodwell, George J. B., assignor.)						
Smith & Co., T. I. (See Lettré, Philipp, assignor.)						
Smith, Cornelius W., et al. (See Baxter, Hamilton, assignor.)						
Smith, D. H. (See Needles, Simeon, assignor.)						
Smith, Daniel F. (See Rupp and Smith.)						
Smith, Daniel W. (See Wallis and Smith.)						
Smith, Darius B., Pine Meadow, Conn. Fire-extinguisher	325,982	Sept. 8	1008	257	32	1209
Smith, David R. (See Billings, Carter, and Smith.)						
Smith, David R. (See Carter and Smith.)						
Smith, David R., assignor to J. and E. McCreary and A. C. Smith, Cohoes, N. Y. Combination power-machine	312,665	Feb. 24	1646	454	30	680

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Smith, De Wane B., Deerfield, N. Y. Collar attachment for double harness	316,842	Apr. 28	2584	675	31	488
Smith, De Witt C. and S. E., St. Paul, Minn. Lathe for turning polygonal forms	321,762	July 7	480	127	32	89
Smith, De Witt C. and S. E., St. Paul, Minn. Wood-turning lathe	321,763	July 7	482	127	32	90
Smith, Desbrow M., Hyde Park, assignor of one-half to Acme Paper Box Company, Boston, Mass. Paper box	325,773	Sept. 8	754	189	32	1161
Smith, Devier J., McCook, Nebr. Harness-rack	331,565	Dec. 1	447	116	33	1077
Smith, Dexter, Springfield, Mass. Revolving fire-arm	315,352	Apr. 7	503	129	31	92
Smith, Dexter, Springfield, Mass. Revolving fire-arm	318,315	May 10	1858	499	31	881
Smith, Edward G., assignor of one-half to L. A. Fullgraf, New York, N. Y. Propelling cars upon railways	319,335	June 2	429	132	31	1141
Smith, Edward H., Rutherford, Cal. Thill-coupling	323,746	Aug. 4	473	134	32	612
Smith, Edward L., et al. (See Trego, A. Homer, assignor.)						
Smith, Edward M., and C. H. Heck, assignors of one-third to O. B. De Wolf, Tecumseh, Mich. Feeder for flouring-mills	333,351	Dec. 29	3025	790	33	1565
Smith, Edward S., Waterbury, Conn. Lever-buckle	310,919	Jan. 20	977	265	30	194
Smith, Edward S., Waterbury, Conn. Spring-clasp	311,536	Feb. 3	104	31	30	369
Smith, Edward S., Waterbury, Conn. Spring-clasp	317,032	May 5	132	33	31	546
Smith, Edwin D., New York, N. Y. Neck-wear	322,207	July 14	1086	282	32	207
Smith, Edwin G., New York, N. Y. Neck-wear	331,566	Dec. 1	448	116	33	1077
Smith, Edwin G. (See Johnston and Smith.)						
Smith, Edwin G., and C. Bell, assignors of one-third to B. B. Brewer, Sacramento, Cal. Smelting-furnace	316,669	Apr. 28	2313	607	31	439
Smith & Egge Manufacturing Company. (See Egge, Frederick, assignor.)						
Smith & Egge Manufacturing Company. (See Egge and Sjöberg, assignors.)						
Smith & Egge Manufacturing Company. (See Jewett, George M., assignor.)						
Smith, Elbert S., et al. (See Smith, John A., assignor.)						
Smith, Eliphalet W., Newark, N. J. Connecting device for switch-boards	318,020	May 26	2679	710	31	1038
Smith, Eliphalet W., Newark, N. J. Pole-changer	332,845	Dec. 22	2307	607	33	1431
Smith, Emil, Brooklyn, N. Y. Cuff-holder	331,335	Dec. 1	109	26	33	1018
Smith, Eugene C., New York, N. Y. Belt-hinge	332,986	July 28	2147	570	32	414
Smith, F. Rollin, Bennington, Vt. Wagon-brake	319,141	June 2	255	67	31	1094
Smith, Fay R. (See O'Brien, John, assignor.)						
Smith, Francis M. (See Mowry, George W., assignor.)						
Smith, Frank B. (See McBride, Smith, and Lennox.)						
Smith, Frank E., Toledo, Iowa. Adjustable check-cutter	313,544	Mar. 10	692	181	30	915
Smith, Frank R., Tomah, Wis. Stump-extractor	318,810	May 26	2526	674	31	1010
Smith, Franklin A., Jr., Providence, R. I. Button	324,422	Aug. 18	1393	379	32	797
Smith, Franklin A., Jr., Providence, R. I. Button and fastener	324,890	Aug. 25	2034	557	32	923
Smith, Fred H., Blue Earth City, Minn. Paper-folding machine	331,832	Dec. 8	871	223	33	1161
Smith, Frederick A., assignor to Hotchkiss & Upson Company, Cleveland, Ohio. Making carriage-bolts	324,180	Aug. 11	1048	426	32	725
Smith, Frederick B., Coldwater, Mich. Stove-truck	318,145	May 19	1633	436	31	840
Smith, Frederick C., Baltimore, Md. Vacuum-pump	321,764	July 7	484	128	32	90
Smith, Frederick H., Kansas City, Mo. Tube-well	313,693	Mar. 17	1169	305	30	1011
Smith, Frederick H., Winchmore Hill, county of Middlesex, England. Ventilator	327,608	Oct. 6	141	34	33	96
Smith, Frederick H., Kansas City, Mo. Bucket for lift-pumps	330,933	Nov. 24	2006	542	33	910
Smith, Frederick T., Plantsville, Conn. Die for carriage-dash frames	312,029	Feb. 10	775	211	30	500
Smith, Frederick T., Plantsville, Conn. Die for forging blacksmiths' tongs	326,797	Sept. 22	2136	556	32	1429
Smith, Fredrick H. (See Austin and Smith.)						
Smith, Fredrick, J., Chicago, Ill. Pinch-bar	327,029	Sept. 29	2450	640	32	1492
Smith, Freeborn G., Brooklyn, N. Y. Upright piano	323,747	Aug. 4	474	134	32	612
Smith, Friend W., Jr., and S. S. Williamson, Bridgeport, Conn. Button-hole attachment for sewing-machines	316,410	Apr. 21	1974	519	31	309
Smith, George, Buffalo, N. Y. Broom-corn sizer	319,859	June 9	1309	319	31	1277
Smith, George A., Norristown, Pa. Pill and lozenge machine	320,447	June 16	2060	540	31	1437
Smith, George A., Los Angeles, Cal. Track-laying device	321,765	July 7	485	128	32	90
Smith, George A., Rockland, Mass. Shoe	331,833	Dec. 8	875	225	33	1162
Smith, George C. (See Fitz Gerald and Smith.)						
Smith, George C., Chicago, Ill. Watch-case	316,072	Apr. 21	1514	395	31	227
Smith, George C., assignor of one-half to S. W. Brook, Hamilton, Ohio. Measuring-vessel	312,030	Feb. 10	776	211	30	500
Smith, George E., Windsor, N. Y. Dental articulator	321,437	July 7	65	19	32	15
Smith, George H., Haverstraw, N. Y. Salt-evaporating pan	317,229	May 5	409	102	31	598
Smith, George H., New York, N. Y. Salt-evaporating pan	331,456	July 7	64	18	32	15
Smith, George H., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Self-lubricating loose pulley	318,399	May 19	1970	530	31	903
Smith, George H., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Grinding-machine	329,781	Nov. 3	478	120	33	586
Smith, George K., Chicago, Ill. Grinding-mill	330,934	Nov. 24	2007	542	33	910
Smith, George K., assignor to H. C. Staver Implement Company, Chicago, Ill. Grinding-mill	324,181	Aug. 11	1050	287	32	725
Smith, George L., Newark, N. J. Loop for bridles	315,672	Apr. 14	964	252	31	180
Smith, George T. (See Clark, Myron W., assignor.)						
Smith, George T. (See Cochran and Smith.)						
Smith, George T., Jackson, Mich. Journal-bearing	313,545	Mar. 10	693	181	30	915
Smith, George T., and W. F. Cochran, Jackson, Mich. Roller-mill	312,392	Feb. 17	1277	353	30	602
Smith, George T., and W. F. Cochran, Jackson, Mich. Flour-bolt	312,914	Feb. 24	1974	539	30	737
Smith, George T., and W. H. Dickey, Jackson, Mich. Centrifugal reel	327,332	Sept. 29	2848	743	32	1563
Smith, George T., and W. H. Dickey, Jackson, Mich. Centrifugal reel	327,335	Sept. 29	2850	743	32	1563
Smith, George W., Bay City, Mich. Baling-press	312,915	Feb. 24	1975	540	30	737
Smith, George W. R., et al. (See Smith, John A., assignor.)						
Smith, Gerritt, Astoria, N. Y. Quadruplex telegraph	319,428	June 2	604	164	31	1163
Smith, Grant & Co. (See Newell and Ladd, assignors.) (Reissue.)						
Smith, Harry R., Cincinnati, Ohio, and R. Folsom, Boston, Mass., assignors to Elgin National Watch Company, Elgin, Ill. Stem-winding watch. (Reissue.)	10,554	Jan. 27	1747	476	30	342
Smith, Heman R., Attica, N. Y. Horse-power	318,518	May 26	2133	574	31	942
Smith, Heman S., Brooklyn, N. Y. Lumber-drier	327,330	Sept. 29	2451	640	32	1423
Smith, Henry, Jr., Baltimore, Md. Sash-cord fastener	316,193	Apr. 21	1681	441	31	319

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Smith, Henry B. (See Hogeboom and Smith.)						
Smith, Henry G., assignor of one-fourth to C. W. Snyder, Hutchinson, Kans. Seed-planter.	330,806	Nov. 17	1833	494	33	871
Smith, Henry H., Bainbridge, Pa. Car-coupling	318,685	May 26	2395	631	31	975
Smith, Henry T., Cooke County, Tex. Varnish	329,016	July 14	137		32	160
Smith, Hervey, Erie, Pa. Carrier apparatus	332,959	Dec. 22	2467	653	33	1461
Smith, Hervey, Erie, Pa. Carrier apparatus	332,960	Dec. 22	2470	654	33	1462
Smith, Hervey, Erie, Pa. Carrier apparatus	332,961	Dec. 22	2472	655	33	1462
Smith, Hervey, Erie, Pa. Conveyor apparatus	333,352	Dec. 29	3026	701	33	1565
Smith, Hervey, assignor to G. C. Blickensderfer, Erie, Pa. Conveyor apparatus	326,928	Sept. 22	2318	606	32	1461
Smith, Hervey, assignor to G. C. Blickensderfer, Erie, Pa. Automatic conveyor apparatus.	326,929	Sept. 22	2319	607	32	1461
Smith, Horace S. (See Treat, Francis H., assignor.)						
Smith, Horace S., et al. (See Treat, Francis H., assignor.)						
Smith, Howard J., and C. Rounds, Brooklyn, N. Y. Umbrella and overshoe rack	332,987	July 28	2148	570	32	414
Smith, Isaac, New Haven, Conn. Roller-skate wheel	330,630	Nov. 17	1602	428	33	827
Smith, Isaac M., Palmyra, Ind. Saw	318,310	May 19	1859	499	31	822
Smith, Isaac S., et al. (See Smith, John A., assignor.)						
Smith, Israel E., York, Pa. Washing-machine	321,766	July 7	487	129	32	91
Smith, Israel E., York, Pa. Gate	321,767	July 7	488	129	32	91
Smith, Israel S., Sr., Washington, D. C. Elevator	310,738	Jan. 13	741	201	30	147
Smith, J. Wilbur, Newark, N. J. Shirt	321,544	July 7	134	51	32	38
Smith, James A., Decorah, Iowa, and A. J. Athay, Sparland, Ill. Object-lens for telescopes and cameras	318,606	May 26	2327	622	31	976
Smith, James C., assignor of one-half to T. G. Newgent, Boston, Mass. Adjustable concentric channeller	326,342	Sept. 15	1508	393	32	1308
Smith, James G., and H. E. Butler, Jamestown, N. Y. Combined blackboard and desk	328,737	Oct. 20	1616	421	33	309
Smith, James H. (See Leach and Smith.)						
Smith, James H., Chicago, Ill. Camera-stand	317,230	May 5	410	103	31	598
Smith, James H., Chicago, Ill. Hammock-frame	328,074	Oct. 13	740	193	33	140
Smith, James H., Newark, Ohio. Traction-cable and car	311,537	Feb. 3	106	31	30	369
Smith, James H., Euston Road, and R. Marshall, Earlham Grove; said Smith assignor to said Marshall; said Marshall assignor of one-half to G. H. A. Thunder, Cathcart Road, South Kensington, county of Middlesex, England. Packing for stuffing-boxes of piston-rods, &c.	317,869	May 12	1259	335	31	762
Smith, James M., Seymour, Conn. Lathe-tool holder	310,739	Jan. 13	743	202	30	147
Smith, James M., Etna, Cal. Grain-separator	329,602	Nov. 3	245	63, 64	31	552
Smith, James R., assignor to H. C. Buhoup, Chicago, Ill. Glass jar for fire-extinguishing compounds and other substances	314,825	Mar. 31	2512	606	30	1295
Smith, James R., assignor to H. C. Buhoup, Chicago, Ill. Fire-extinguishing compound.	314,886	Mar. 31	2513		30	1295
Smith, James R., assignor to H. C. Buhoup, Chicago, Ill. Fire-extinguishing apparatus.	314,887	Mar. 31	2514	606	30	1295
Smith, James T., New York, N. Y. Umbrella and parasol	326,890	Sept. 22	2270	594	32	1453
Smith, James W., Chicago, Ill. Stereotype-shaving machine	316,579	Apr. 28	2198	579	31	418
Smith, James W., Jersey City, N. J. Pistol for shooting marbles	328,348	Oct. 13	1065	262	33	206
Smith, Jasper, Washington, N. J. Water-wheel	318,214	May 19	1720	460	31	857
Smith, John, Kansas City, Mo. Manufacture of ridge-caps for corrugated roofing	317,868	May 12	1258	335	31	762
Smith, John, Columbus, Ohio. Suspender clutch-pulley	325,983	Sept. 8	1009	258	32	1209
Smith, John, assignor to H. H. C., W., and J. S. Diaston, Philadelphia, Pa. Saw with in-sertible teeth	326,798	Sept. 22	2137	556	32	1429
Smith, John, Verona, assignor of two-thirds to F. G. and J. I. Kay, Allegheny City, Pa. Nut-locking spring-washer	314,888	Mar. 31	2515	606	30	1295
Smith, John A., Turner, Me. Sweat and chafe pad fastening	318,317	May 19	1860	499	31	822
Smith, John A., St. Paul, Ark., assignor of one-half to I. S. Smith, W. A. Marks, E. S. Smith, J. B. Peach, W. H. Bolinger, J. M. Williams, G. W. R. Smith, Z. T. Reynolds, and W. B. Sumner. Railway-gate	325,874	Sept. 8	880	222	32	1125
Smith, John C., Cleveland, Ohio. Screw-cutting lathe	327,334	Sept. 29	2852	744	32	1564
Smith, John D., et al. (See Jones, Edward C., assignor.)						
Smith, John E. (See Schoonmaker, Edward T., assignor.)						
Smith, John E., Charleston, Ark. Churn	325,572	Sept. 1	477	119	32	1106
Smith, John H. (See Wilson, Arthur N., assignor.)						
Smith, John J. C. and M., Passaic, N. J. Vulcanization of rubber coverings for electrical conductors	317,587	May 12	887		31	692
Smith, John N. (See Loar, James, assignor.)						
Smith, John R. (See Ball and Smith.)						
Smith, John S. (See Thayer and Smith.)						
Smith, John S., et al. (See Borton, Job, assignor.)						
Smith, John S., assignor of one-half to T. G. Bennett, Jackson, Mich. Machine for treating clay	312,666	Feb. 24	1649	455	30	680
Smith, John S., assignor of one-half to T. G. Bennett, Jackson, Mich. Machine for preparing clay	312,667	Feb. 24	1650	455	30	680
Smith, John S. and S., Glasgow, Scotland. Carpet	315,333	Apr. 7	504	129	31	92
Smith, John T. (See Smith and Couch.)						
Smith, John T., Rockfall, Conn. Revolver	311,383	Jan. 27	1650	451	30	324
Smith, John T., Rockfall, Conn. Lock for revolvers	314,067	Mar. 17	1398	365	30	1054
Smith, John W., Chicago, Ill. Caster	318,811	May 26	2527	674	31	1010
Smith, John W., and C. L. Holland, Boston, Mass. Barber's comb	323,889	Aug. 4	652	184	32	646
Smith, John Y., Doylestown, Pa. Ensilage-cutter	311,538	Feb. 3	107	32	30	369
Smith, Joseph, Ottawa, Ontario, Canada. Post or pole	321,543	July 7	193	51	32	38
Smith, Joseph A., Deep River, Conn. Button-hook	311,539	Feb. 3	110	32	30	370
Smith, Joseph F., Pittsburg, Pa. Coping	317,867	May 12	1257	334	31	762
Smith, Joseph G., Kinderhook, Ill. Gardening-machine	318,047	May 19	1507	404	31	816
Smith, Joseph G., Kinderhook, Ill. Seed-drill and cultivator	318,048	May 19	1509	405	31	817
Smith, Joseph P. (See Snow, Charles, assignor.)						
Smith, Joseph P., Glastonbury, Conn. Butter and cheese knife	331,915	Dec. 8	993	257	33	1184
Smith, Joseph P., assignor of one-half to C. Snow, Glastonbury, Conn. Mosquito-bar canopy	318,667	May 26	2328	622	31	976
Smith, Joseph R. (See Laforge and Smith.)						
Smith, Joseph W., Newton, Mass. Loop for suspender-ends	317,231	May 5	411	103	31	599
Smith, Kirk A., and J. E. Woodard, Kalamazoo, Mich. Pump-vent	330,010	June 16	1428	375	31	1324
Smith, Leonard O., Philadelphia, Pa. Insulator	328,728	Oct. 20	1617	421	33	309
Smith, Lucien A., Detroit, Mich. Parcel-carrier	322,329	July 14	1229	323	32	234

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Smith, Lucien P., assignor of one-half to G. Best, Hartford, Conn. Metal-screw machine.	321,059	June 30	2868	782 763 764	31	1602
Smith, Luther F., Green Bay, Wis. Safety-gate for bridges.	320,408	June 16	2013	528	31	1428
Smith, Lyman. (See Goodrich and Smith.)						
Smith, Lyman, Kansas City, Mo. Air-spring.	321,768	July 7	489	129	32	91
Smith, Lyman, Kansas City, Mo. Apparatus for transferring grain and the storage thereof.	321,769	July 7	491	130	32	92
Smith, Lyman, Kansas City, Mo. Mouth-piece for pneumatic lifting apparatus for grain-conveyers.	323,224	July 28	2475	657	32	474
Smith, Lyman, Kansas City, Mo. Mouth-piece for pneumatic grain-transfer apparatus.	323,225	July 28	2477	658	32	474
Smith, Lyman, Kansas City, Mo. Pneumatic grain-elevator and transfer apparatus.	323,226	July 28	2478	658 659	32	475
Smith, Lyman B., Chelsea, Mass. Cut-off for hose-nozzles.	310,326	Jan. 6	228	62	30	43
Smith, M. Holroyd, Halifax, county of York, England. Electric railway system and car.	310,962	Jan. 20	1042	288 283	30	205
Smith Machine Company, H. B. (See Jannus, Frankland, assignor.)						
Smith, Madison W., and B. F. Johnson, Waverly, N. Y. Combined reversible blackboard and desk.	317,588	May 12	889	228	31	692
Smith, Marcus B., and L. J. A. Roswall, Clarence, Mo. Machine for measuring and marking cloth.	321,393	June 30	3287	878 879	31	1681
Smith, Margaret, Baltimore, Md. Hat or bonnet supporter.	328,729	Oct. 20	1618	421	33	309
Smith, Martin L., Toronto, Ontario, Canada. Pruning knife and saw combined.	319,033	June 2	121	33	31	1070
Smith, Marvin O., New Buffalo, Mich. Drag-saw.	312,399	Feb. 17	1157	316	30	579
Smith, Melvin L., and B. Schad, assignors to Smith's Suspension Carriage Wheel Company, Lockport, N. Y. Tire-heating furnace.	314,202	Mar. 17	1574	417	30	1086
Smith, Michael. (See Smith, John J. C. and M.)						
Smith, Michael J., New York, N. Y. Water closet tank or cistern.	311,207	Jan. 27	1392	380	30	276
Smith Middlings Purifier Company, George T. (See Holt, Noah W., assignor.)						
Smith Middlings Purifier Company, George T. (See Sherwood, George F., assignor.)						
Smith, Minard M. (See Hassall and Smith.)						
Smith, Moses H., assignor of one-half to W. Brown, South Chicago, Ill. Automatic draft-regulator.	322,491	July 21	1467	385	32	283
Smith, Oberlin. (See Bodine and Smith.)						
Smith, Oberlin. (See Perkins and Smith.)						
Smith, Orange V., et al. (See Bradshaw, John A., assignor.)						
Smith, Orren M., Philadelphia, Pa. Gas-burner.	322,399	July 14	1327	346	32	252
Smith, Orson W., assignor of one-half to F. S. Blanchard, Charlevoix, Mich. Cuspidor.	322,016	Dec. 8	1136	297	33	1210
Smith, Orville T., Brooklyn, N. Y. Collar or sleeve button.	316,194	Apr. 21	1661	441	31	319
Smith, Otis A., and J. T., and J. O. Conch, Middlefield, Conn., assignors to J. I. Holly, New York, N. Y. Cap for carriage-wheels.	327,732	Oct. 6	304	78	33	53
Smith, Otto E., Janesville, Wis. Washing-machine.	327,732	Oct. 6	426	111	33	75
Smith, Parker P., Pittsburg, Pa. Vehicle-hub.	322,759	July 21	1812	479	32	346
Smith, Patrick C., Indianapolis, Ind. Sand-molding machine.	322,962	Dec. 22	2473	655	33	1462
Smith, Perry F., Boston, Mass. Mechanism for converting flour into dough.	322,617	Dec. 8	1138	297	33	1211
Smith, Perry F., Boston, Mass. Conveying flour into dough.	322,618	Dec. 8	1138	297	33	1211
Smith, Perez B. H., Brooklyn, N. Y. Circular sawing machine.	322,134	July 14	973	258	32	189
Smith, Peter, Detroit, Mich. Water heater and circulator.	314,735	Mar. 31	2287	607	30	1252
Smith, Peter E., Scotland Neck, N. C., assignor of one-half to I. F. Brown, New London, Conn. Spark-arrester.	328,819	Oct. 20	1719	447	33	329
Smith, Peter T., Milwaukee, Wis. Machine for grooving grinding-cylinders.	328,075	Oct. 13	741	193	33	140
Smith, Presley S., assignor of one-half to J. W. Jones, Knoxville, Ga. Fertilizer and seed distributor.	322,349	Oct. 13	1085	283	32	206
Smith, R. Hale, Springfield, Mass. Manufacturing elastic-faced printing-types.	324,423	Aug. 18	1394	380	32	797
Smith, R. Hale, Springfield, Mass. Elastic-faced printing-type.	326,599	Sept. 22	1834	482	32	1376
Smith, Ralph J., John Street, Sunderland, England. Marine-engine governor.	314,989	Mar. 31	2516	667	30	1295
Smith, Ralph J., San Marcos, Tex. Ventilating cover.	316,843	Apr. 28	2525	676	31	488
Smith, Richard, Sherbrooke, Quebec, Canada. Automatic steam-regulator for paper-machines.	324,601	Aug. 18	1620	446	32	840
Smith, Richard, Sherbrooke, Quebec, Canada, assignor of one-half to Fall Mountain Paper Company, Bellows Falls, Vt. Pneumatic device for leading paper through calender-rolls.	327,031	Sept. 29	2453	641	32	1493
Smith, Richard, Sherbrooke, Quebec, Canada, and G. H. Collins, Boston, Mass.; said Collins assignor to said Smith. Steam engine for reciprocating propellers.	327,335	Sept. 29	2654	744 745	32	1564
Smith, Riley T. (See Bradley and Smith.)						
Smith, Robert B. (See Lytle, Albert E., assignor.)						
Smith, Robert B., Lafayette, Ala. Cotton-seed planter.	312,393	Feb. 17	1280	374	30	692
Smith, Roland H., Pittsburg, Pa. Gas-generating retort-furnace.	321,770	July 7	493	130	32	92
Smith, Roland H., Pittsburg, Pa. Gas apparatus.	330,165	Nov. 10	1004	262	33	704
Smith, Roland H., Pittsburg, Pa. Gas-distribution.	330,267	Nov. 10	1126	299	33	728
Smith, Roland H., Pittsburg, Pa. Producing illuminating-gas.	330,747	Nov. 17	1762	475	33	857
Smith, Roswell T., Nashua, N. H. Machine for cutting music-paper for automatic musical instruments.	318,049	May 19	1511	405	31	217
Smith, Russell L., and C. P. Miller, Savannah, Mo. Folding stock-shipping cage.	318,812	May 26	2527	675	31	1010
Smith, Samuel. (See Smith, John S. and S.)						
Smith, Samuel H., New York, N. Y. Envelope.	332,454	Dec. 15	1759	460	33	1325
Smith, Seth H., Delta, Ohio. Cell package for fruit, &c.	317,033	May 5	133	34	31	546
Smith, Seth H., assignor of six hundred and five one-thousandths to J. M. Longnecker and H. S. Hull, Delta, Ohio. Knife for cutting dish-blanks.	322,017	July 14	838	219	32	160
Smith, Seth W., Paris, N. Y. Farm-gate.	330,631	Nov. 17	1603	429	33	827
Smith, Sica. (See Barton, George T., assignor.)						
Smith & Smart. (See Spencer, John E., assignor.)						
Smith, Solomon P., Waterford, N. Y. Automatic damper.	322,492	July 21	1468	386	32	283
Smith, Solomon P., Waterford, N. Y. Automatic damper.	323,539	Aug. 4	207	61	32	561
Smith, Spencer E. (See Smith, De Witt C. and S. E.)						
Smith, Stephen C. (See Horne and Smith.)						
Smith, Stephen G., Hannibal, Mo. Vehicle-spring.	315,176	Apr. 7	262	63	31	48
Smith, Stephen R. (See Stratton, William H., assignor.)						
Smith, Stephen T., et al. (See Wagner, Franz X., assignor.)						
Smith's Suspension Carriage Wheel Company. (See Smith and Schad, assignors.)						
Smith, Sutton & Co. (See McBride, Smith, and Lennox, assignors.)						
Smith, T. Albee, assignor of two-thirds to L. F. Woods, St. Louis, Mo., and C. Menelas, Brookhaven, Miss. Fiber-disintegrating machine.	314,268	Mar. 24	1664	442 443 444	30	1112
Smith, T. Albee, assignor of one-half to L. F. Woods, St. Louis, Mo. Fiber-decorticating machine.	321,863	July 7	630	162 163	32	115

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Smith, Theodora E., <i>et al.</i> (See Doane, Andrew J., assignor.)						
Smith, Theron I., North Attleborough, Mass. Button	314,616	Mar. 31	2132	567	30	1224
Smith, Thomas. (See Chambers and Smith.)						
Smith, Thomas, Breckenridge, Mo. Fifth-wheel for vehicles	314,068	Mar. 17	1400	365	30	1055
Smith, Thomas, assignor of two-thirds to W. D. and J. N. Eddy, London, Ontario, Canada.						
Car-coupling	317,332	May 5	412	103	31	569
Smith, Thomas E., Lynn, Mass. Nail-driving machine	323,081	July 28	2279	603	32	438
Smith, Thomas H., Auburn, N. Y. Combined shutter-worker and slat-operator	312,300	Feb. 17	1152	317	30	579
Smith, Thomas S., assignor to C. H. Rentz, New Haven, Conn. Sash-fastening	314,350	Mar. 24	1777	473	30	1133
Smith, Thomas T., London, England. Electric-circuit connection	311,616	Feb. 3	906	59	30	388
Smith, Thomas T., London, England. Portable electric lamp	311,617	Feb. 3	211	59	30	388
Smith, Thomas T., London, England. Hanging balanced electric lamp	312,394	Feb. 17	1282	354	30	603
Smith, Thomas T., Finsbury, London, England. Electric coupling	315,673	Apr. 14	964	252	31	180
Smith, Thomas T., Finsbury, London, England. Electric-light apparatus	315,674	Apr. 14	966	253	31	181
Smith, Uzzel P., Chicago, Ill. Elevator	314,736	Mar. 31	2228	007	30	1253
Smith, Walter, Sharon Hill, Pa. Machine-table	319,757	June 9	1058	281	31	1252
Smith, Walter D., and W. H. Paul, Baltimore, Md. Staying slits in garments	325,126	Aug. 25	2341	644	32	981
Smith, Walton D., assignor of three-fourths to C. C. E., and C. L. Emery, Prophetstown, Ill. Laying electric wires	325,084	Sept. 8	1009	258	32	1209
Smith, Ward P. (See Vandercok, Smith, and Baker.)						
Smith, Warren D., and F. J. Milliken, Boston, Mass. Conduit for underground wires	322,018	July 14	839	219	32	161
Smith, Warren S., Hainesburg, N. J. Wagon-brake	313,115	Mar. 3	100	26	30	795
Smith & Wesson. (See Landers and Wesson, assignors.)						
Smith & Wesson. (See Wesson, Joseph H., assignor.)						
Smith, Will P. (See Fowle, Christopher, and Smith.)						
Smith, Willard A., and I. A. Weston, assignors to Whitman & Barnes Manufacturing Com- pany, Syracuse, N. Y. Machine for pointing cotters	319,422	June 2	606	164 165	31	1164
Smith, William, San Francisco, Cal. Water-closet	314,617	Mar. 31	2133	568	30	1224
Smith, William, Brooklyn, assignor to F. Maskie's, Astoria, N. Y. Self-adjusting chain-sling	325,350	Oct. 13	1086	283	33	207
Smith, William A., Lawrence, assignor to Lawrence Felting Company, Millville, Mass.						
Felt-boat machine	323,457	Aug. 4	94	27, 28	32	540
Smith, William B., Jonesborough, Ga. Grain-cradle	322,825	July 21	1996	528	32	379
Smith, William B., Quincy, Ill. Cover-fastener for egg-cases	331,016	Dec. 8	993	257	33	1184
Smith, William B., San Francisco, Cal. Knob attachment	312,455	Dec. 15	1759	460	33	1325
Smith, William C., Warsaw, Mo. Stove	327,356	Sept. 29	2859	746	32	1564
Smith, William C., Warsaw, Mo. Fire-chamber for cook-stoves	330,935	Nov. 24	2008	542 543	33	910
Smith, William C., Warsaw, Mo. Heating-stove	331,455	Dec. 1	225	78	33	1049
Smith, William D., Pittsburg, Pa. Alarm-clock	311,540	Feb. 3	110	33	30	370
Smith, William E., Ansonia, Conn., assignor to B. Goodman, New York, N. Y. Suspend- er-buckle	319,860	June 9	1211	320	31	1278
Smith, William E., assignor to J. C. Hotchkiss, Ansonia, Conn., and B. Goodman, New York, N. Y. Lever-buckle	315,177	Apr. 7	263	64	31	48
Smith, William F., San Francisco, Cal. Lift-handle for sashes	331,336	Dec. 1	110	26	33	1018
Smith, William F., Pittsburg, Pa. Gas-distributing pipe	333,333	Dec. 29	3029	791	33	1566
Smith, William F., and W. W. Adams, Ozark, Ark.: said Smith assignor to said Adams.	311,266	Jan. 27	1481	405 406	30	293
Baling-press						
Smith, William H., La Crosse, Wis. Valve for steam-engines	317,870	May 12	1260	335 336	31	762
Smith, William H., La Crosse, Wis. Thrashing-machine	323,117	Dec. 8	1296	337	33	1238
Smith, William O., Boston, Mass. Saw-set	327,609	Oct. 6	142	34	33	27
Smith, William S., Chicago, Ill., and C. W. Clift, Rockville Center, N. Y. Sand-pump	323,458	Aug. 4	95	28	32	540
Smith, William T., Bozenan, A. A. Lu ber-stacker	310,232	Jan. 6	89	23, 24	30	19
Smith, William T., Boyne, Mich. Sawing-machine	326,343	Sept. 15	1510	394	32	1309
Smith, Worthington G. (See Wellington, Amos H., assignor.)						
Smitten, Thomas W. F., Brooklyn, N. Y. Button	319,770	Feb. 24	1785	492	30	705
Smitten, Thomas W. F., Brooklyn, N. Y. Link sleeve-button	320,596	June 23	2261	598	31	1483
Smitten, Thomas W. F., Brooklyn, N. Y. Button or stud	321,653	July 7	725	66	32	62
Smolley, James L., Tipton, Ind. Fence-post	312,524	Feb. 17	1470	402	30	636
Smoot, Daniel G., Pioneer, Ohio. Gate	316,544	Apr. 28	2585	676	31	428
Smyth, David M., assignor to Smyth Manufacturing Company, Hartford, Conn. Book-sewing	314,737	Mar. 31	2229	608	30	1253
Smyth, John M., Windsor, Ontario, Canada. Ironing-table	325,985	Sept. 8	1012	258	32	1209
Smyth Manufacturing Company. (See Smyth, David M., assignor.)						
Smythe, Augustine T. (See Nicholas, John H., assignor.)						
Smythe, Francis T., St. Louis, Mo. Floating water-elevator	320,124	June 16	1659	440	31	1365
Smythe, George A., <i>et al.</i> (See Lane, Frank W., assignor.)						
Snap, Thomas, Pawtucket, R. I. Nut-trimming machine	312,031	Feb. 10	777	212	30	500
Snead, Charles S., and U. Louisville, Ky. Locking device for jails	322,748	Aug. 4	475	134 135	32	612
Snead, Udolpho. (See Snead, Charles S. and U.)						
Snedekum, Charles, Bay City, Mich. Brace	319,430	June 2	612	165 166	31	1164
Snedden, Leonard B., and H. N. Holden, Hackensack, N. J. Fifth-wheel for vehicles	326,686	Sept. 22	1855	514	32	1397
Sneider, Robert, Brooklyn, N. Y. Envelope	311,208	Jan. 27	1393	320	30	277
Snell, Adolphus G., New Haven, Conn. Canopy-holder for children's carriages	312,395	Feb. 17	1284	355	30	603
Snell, Charles E., Pottsdam, N. Y. Combined wringer and mop	330,304	June 16	1826	485	31	1395
Snell, Daniel, Little Falls, N. Y. Gate	331,567	Dec. 1	449	116	33	1078
Snell, James R., <i>et al.</i> (See Sherwood, James H., assignor.)						
Snell Manufacturing Company. (See Holley, Dwight S., assignor.)						
Snell, Theodore. (See Palmer, Eli J., assignor.)						
Snell, Theodore, <i>et al.</i> (See Rodwell, George J. B., assignor.)						
Snelson, William H., assignor of seven-sixteenths to G. Judge, Chicago, Ill. Pulley-sheave	312,668	Feb. 24	1651	456	30	621
Snelson, William H., and G. Judge, Chicago, Ill. Grip apparatus for traction-cables	329,965	Nov. 10	736	187 188	33	649
Snider, Worthington J. (See Kramer and Snider.)						
Snider, Worthington J., Madison City, (Heno P. O.) assignor to H. P. Deuscher, Hamil- ton, Ohio. Check-rowing attachment for corn-planters	328,351	Oct. 13	1087	283	33	207
Sniffen, Samuel F., assignor to Meyer-Sniffen Company, (limited.) New York, N. Y. Wa- ter-closet	319,336	June 2	491	132 133	31	1141
Snively, Wilmer F., Bellairs, Ohio. Covered dish	329,228	Oct. 27	2324	602	33	444
Snodgrass, James H., Mifflinburg, Pa. Side spring for vehicles	312,174	Feb. 10	980	267	30	537
Snook, Franklin B., and D. Death, Franklin, Ohio. Guide for window-curtains	326,799	Sept. 22	2138	556	32	1429
Snow, Abner, Round Rock, assignor of one-half to W. D. Herrick, Williamson County, Tex. Plow	321,319	June 30	3189	850	31	1663

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Snow, Charles. (See Smith, Joseph P., assignor.)						
Snow, Charles, assignor of one-half to J. P. Smith, Glastonbury, Conn. Mosquito-bar canopy	323,227	July 28	2480	659	32	475
Snow, Fred P. (See Poole and Snow.)						
Snow, Fred W., Hillburn, N. Y. Railway-frog	317,589	May 12	891	228	31	692
Snow, Fred W., Hillburn, N. Y. Switch-stand	320,507	June 23	2143	566	31	1461
Snow, Fred W., Hillburn, N. Y. Railway-switch	327,115	Sept. 29	2571	670	32	1513
Snow, George B., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Inhaler	312,771	Feb. 24	1786	493	30	705
Snow, Gilbert B. (See Randall and Snow.)						
Snow, Isaac, New York, N. Y. Car-replacer	319,337	June 2	493	133	31	1142
Snow, Loxor B., Cleveland, Ohio. Flexible roofing-tile	320,979	June 30	2761	734	31	1583
Snow, Robert F., Cincinnati, Ohio. Turner for tin roofs	329,084	Nov. 3	348	89	33	570
Snow, William H., High Point, N. C. Device for curing tobacco	322,330	July 14	1931	323	32	224
Snowden, George T., Pittsburg, Pa. Balance slide-valve	326,800	Sept. 22	2139	557	32	1429
Snyder, Abraham B., Louisville, Ohio. Railway-signal	321,256	June 30	3112	828	31	1647
Snyder, Benjamin F., Middleburg, assignor of one-half to H. S. Fuss, Franklin County, Pa. Ironing-table	311,384	Jan. 27	1652	451	30	324
Snyder, Charles, Fair Mount, N. Y. Holdback	325,573	Sept. 1	478	119	32	1107
Snyder, Charles F. (See Hess and Snyder.)						
Snyder, Charles W. (See Smith, Henry G., assignor.)						
Snyder, Daniel, assignor of one-half to E. Ivins, Philadelphia, Pa. Hair-crimper	331,216	Nov. 24	2389	646	31	980
Snyder, Frank E., Massillon, Ohio. Beer-forcing pump	322,073	July 14	912	236	32	174
Snyder, Fredrick H. (See Hess and Snyder.)						
Snyder, George G., Middaghs, Pa. Horseshoe-block	314,890	Mar. 31	2518	667	30	1295
Snyder, Jacob F. (See Hess and Snyder.)						
Snyder, James B., Bedford, Iowa. Machine for building picket fences	325,574	Sept. 1	478	119	32	1107
Snyder, John F., and J. C. Knapp, South Easton, Pa. Kitchen-safe	319,034	June 2	122	33	31	1070
Snyder, John P. (See Cavanagh, Michael F., assignor.)						
Snyder, Joseph. (See Hussey, Charles A., assignor.)						
Snyder, Rufus. (See Frear, Moses, assignor.)						
Snyder, Samuel, White Sulphur Springs, Mont. Ter. Fire-escape	325,450	Sept. 1	318	77	32	1076
Snyder, Thomas C. (See Davis, James E., assignor.)						
Snyder, Waldo V., Canton, Ohio. Plow-clevis	325,575	Sept. 1	479	110	32	1107
Snyder, William D., Columbia City, Ind. Folding bedstead	318,813	May 26	2528	675	31	1010
Snyder, William H., Waynesborough, Pa. Saw-mill dog	314,071	Mar. 17	1403	366	30	1055
Snyder, William H., Waynesborough, Pa. Traction-engine	314,072	Mar. 17	1404	366	30	1055
Snyder, William H., Waynesborough, Pa. Saw-mill set-works	316,299	Apr. 21	1817	478	31	342
Snyder, William H., Waynesborough, Pa. Steam gang-plow	316,845	Apr. 28	2587	676	31	48
Snyder, William H., and A. O. Frick, Waynesborough, Pa. Steam gang-plow	316,846	Apr. 28	2588	677	31	489
Snyder, William W., executor. (See Swope and Rude.)						
Sobotka, Julius, Plauen, (Voigtland), Germany. Embroidering-machine	322,860	July 21	1956	518	32	372
Soehfasky, William, New York, N. Y. Decorating wall-hangings and other fabrics	320,409	June 16	2013		31	1429
Société Anonyme Dite Compagnie Industrielle des Procédés Raoul Pictet. (See Mendès, Joseph H. E., assignor.)						
Société Anonyme La Teinturerie Stéphanoise. (See Corron, César, assignor.)						
Société des Fonderies et Forges de Terre Noire. (See Hope and Ripley, assignors.)						
Société Générale des Téléphones. (See Berthon, Louis A., assignor.)						
Société Harmel Frères. (See Harmel, Ernest, assignor.)						
Société Industrielle. (See Chopard, Albert, assignor.)						
Société Industrielle Montier-Grandval. (See Chopard, Albert, assignor.)						
Society of Chemical Industry. (See Gnehm, Robert, assignor.)						
Soderberg, John G., et al. (See Field, Edwin S., assignor.)						
Söderström, Albert, Stockholm, Sweden. Twist-drill	321,144	June 30	2976	788	31	1622
Sohmemann, Friedrich, Philadelphia, Pa. Elevated railway and bridge	314,728	Mar. 31	2279	605	30	1251
Sohn, John W. (See Bentel, Frederick, assignor.)						
Sohst, Henry F. W., San Francisco, Cal. Pipe-tongs	331,456	Dec. 1	286	78	33	1049
Solano, Renaldo, Brooklyn, N. Y. Cable railway	331,838	Dec. 8	884	228	33	1164
Solano, Renaldo, assignor of two-thirds to F. Bode and G. E. Cox, San Francisco, Cal. Gripping device for cable railways	316,670	Apr. 28	2315	608	31	430
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Cable railway	331,834	Dec. 8	875	225	33	1162
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Curvilinear conduit for cables and cable railways	331,885	Dec. 8	880	227	33	1163
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Carrying-pulley for cable railways	331,836	Dec. 8	881	227	33	1163
Solano, Renaldo, assignor of two-thirds to J. W. Howard and D. R. Morse, Brooklyn, N. Y. Conduit for the cables of cable railways	331,837	Dec. 8	883	228	33	1163
Solar Gas Light and Heating Company. (See McClellan, Oscar D., assignor.)						
Sollie, Peter O., Portland, Dak. Ter. Cut-off valve	327,902	Oct. 6	509	132	33	91
Solinger, Moses, New York, N. Y. Machine for calendering paper	319,634	June 9	906	239	31	1234
Solliday, Wilson E., South Easton, Pa. Book-rest	324,602	Aug. 18	1625	447	32	841
Solomon, Richard S., Cape Town, Cape of Good Hope. Friction-drill brace	320,185	June 16	1550	441	31	1366
Solt, William, Sr., Freeland, assignor of one-half to W. D. Kline, South Heberton, Pa. Grate-bar. (Reissue.)	10 670	Dec. 8	1444	373	33	1264
Solter, George L., Philadelphia, Pa. Boxed demijohn	325,875	Sept. 8	881	222	32	1175
Solvay, Ernest, Brussels Belgium. Manufacture of chlorine	316,195	Apr. 21	1682		31	319
Solvay, Ernest, Brussels, Belgium. Manufacture of hydrochloric acid	316,300	Apr. 21	1816		31	343
Somers Bros. (See Atkinson, William H., assignor.)						
Somers, Daniel M., Brooklyn, N. Y. Insect-powder gun	326,600	Sept. 22	1835	482	32	1376
Somers, George E., assignor to Bridgeport Brass Company, Bridgeport, Conn. Drawer-pull	315,852	Apr. 14	1210	316	31	226
Somers, James, Moro, Oreg. Surgical instrument	327,204	Sept. 29	2692	699	32	1536
Somers, William R., Bridgeport, Conn. Right and left order for sewing-machines	322,074	July 14	913	237	32	174
Somerville, James W., Washington, D. C. Tank for water-closets	322,758	Dec. 22	2202	521	33	1411
Somerville, William. (See King, William W., assignor.)						
Somerville, William, St. Louis, Mo. Manufacture of glass pendants	314,069	Mar. 17	1401	365	30	1055
Somerville, William, Sr., Buffalo, N. Y. Horseshoe	322,652	July 21	1673	443	32	320
Somes, Herbert C., et al. (See Manuel, David, assignor.)						
Sommer, John, Newark, N. J. Cork-driver	324,983	Aug. 25	2129	522	32	942
Sommer, John L., Newark, N. J. Shoe-buttoner	320,714	June 23	2412	630	31	1512
Sondermann, Ernst. (See Mott, Jacob, assignor.)						
Sondheim, Philip L., et al. (See Meissner, John, assignor.)						
Sone, Louis V., New York, N. Y. Vessel for transporting liquid cargoes in bulk	326,344	Sept. 15	1511	394	32	1309

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Songer, Charles H., <i>et al.</i> (See McKinley, William H., assignor.)						
Sonier, Frank, Peoria, Ill. Spirit-condenser	310,963	Jan. 20	1044	284	30	905
Sonne, Carl C., Shanghai, China. Telephone switch-board	325,618	Oct. 20	1466	381 382	33	281
Sooyamith, Charles, Chicago, Ill. Tunneling and sinking shafts	331,656	Dec. 1	621	153	33	1107
Sooyamith, Charles, Chicago, Ill. Building tunnels	331,657	Dec. 1	622	153	33	1107
Sooyamith, Charles, Chicago, Ill. Closing spaces between submerged bodies	331,658	Dec. 1	623	154	33	1107
Soper, Walter A. (See McKinney and Soper.)						
Sorber, Charles, St. Louis, Mo. Safety-gate for elevators	328,820	Oct. 20	1720	447	33	330
Sörenson, Jeppe J. A., Eric, Pa. Mangle	314,269	Mar. 24	1667	443	30	1112
Sorgue, Philippe, Paris, France. Elastic tubular cable	322,493	July 21	1470	386	32	283
Sörle, Carl O., Christiania, Norway. Shade and blind	330,936	Nov. 24	2009	543	33	911
Sorrell, Lewis N. B., Washington, D. C. Animal-trap	318,146	May 19	1633	436	31	840
Sorot, Hobart B., Kalamazoo, Mich. Two-wheeled vehicle	326,168	Sept. 15	1263	325	32	1282
Souders, Norton. (See Souders, Smith, Craighead, and Souders.)						
Souders, Peter, C. Smith, H. M. Craighead, and N. Souders, Rieglesville, N. J. Bleaching compound for jute paper-stock, &c	312,525	Feb. 17	1471		30	636
Soulliere, Leon, assignor, by means assignments, of one-half to W. Reetz, Chicago, Ill. Automatic cut-off for batteries	319,635	June 9	907	240	31	1224
Souney, Edward C., Sacramento, Cal. Thrashing-cylinder	322,135	July 14	994	259	32	190
Sourwine, John D., and J. A. Carpenter, assignors to Model Cuff Adjusting Company, Bra-sil, Ind. Cuff and sleeve holder and adjuster	312,032	Feb. 10	778	212	30	500
Souter, William, Leeds, Mass. Ticket-clip	315,178	Apr. 7	264	64	31	48
South Bend Iron Works. (See Casaday, William L., assignor.)						
South, Edward M., assignor to H. P. Deoucher, Hamilton, Ohio. Corn-planter	332,679	Dec. 15	2089	548	33	1383
Southall, Samuel. (See Brown, Charles E., assignor.)						
Southard, Abraham M., assignor to Southard Portable Gas Company, Denver, Colo. Vapor-burning lamp	333,354	Dec. 29	3080	791	33	1566
Southard Portable Gas Company. (See Southard Abraham M., assignor.)						
Southby, A. Gapper, Jersey. Channel Islands, assignor of one-half to F. D. Blyth, London, England. Mode of and apparatus for making ice, refrigerating, &c	331,457	Dec. 1	227	78	33	1050
Souther, Charles H. (See Murphy, James, assignor.)						
Souther, George, Boston, Mass. Car-truck	320,011	June 16	1429	375	31	1324
Southern Cotton Picking Company. (See Haselton, Daniel B., assignor.)						
Southern White Lead Company. (See Forst, Michael, assignor.)						
Southington Cutlery Company. (See Gridley, John W., assignor.)						
Southwell, Charles C., Milwaukee, Wis. Dental breath-guard	319,338	June 2	493	133	31	1142
Southwell, Frederick C. (See Hornsby, Southwell, and Innocent.)						
Southwick, George W., Stamford, Conn. Belt-fastener	322,988	July 28	2150	570	32	415
Southwick, Thomas A., assignor to himself and M. C. Alexander, Brockton, Mass. Floor-clamp	312,526	Feb. 17	1471	403	30	636
Southworth, Charles S., Deep River, Conn. Platen-shifting attachment for type-writing machines	331,650	Dec. 1	624	154	33	1107
Souvielle, Mathieu, Paris, France. Respirator	314,070	Mar. 17	1402	366	30	1055
Sovereign, Clarence E. (See Doyle, Michael V., assignor.)						
Sowder, Granville G., North Salem, Ind. Two-wheeled vehicle	327,733	Oct. 6	305	78	33	53
Sowers, Oliver P., assignor to Moline Plow Company, Moline, Ill. Cultivator	323,228	July 28	2481	659	32	475
Spalding, Henry C., Boston, Mass. Compound electrical cable	327,459	Sept. 29	3017	788	32	1592
Spalding, Henry C., Boston, Mass. Anchor for telegraph-cables	327,460	Sept. 29	3019	788	32	1592
Spalding, Henry C., Boston, Mass. Telegraph-cable	327,461	Sept. 29	3020	788	32	1592
Spalding, Henry C., Boston, Mass. Insulating compound for electrical cables, &c	327,462	Sept. 29	3021		32	1592
Spalding, Henry C., Boston, Mass. Protecting electrical conductors underground	327,463	Sept. 29	3021	789	32	1592
Spalding, Henry C., Boston, Mass. Insulated conductor	327,464	Sept. 29	3023	789	32	1592
Spalding, Henry C., Boston, Mass. Manufacture of insulating blocks for electrical con-ductors	327,465	Sept. 29	3024	790	32	1592
Spalding, Henry C., Boston, Mass. Conduit for underground conductors	327,466	Sept. 29	3026	790	32	1593
Spalding, Henry C., Boston, Mass. Insulated electrical conductor	327,467	Sept. 29	3027	790	32	1593
Spalding, Henry C., Boston, Mass. Protecting electrical conductors from the heat of sub-terranean steam-pipes	327,468	Sept. 29	3028	790	32	1593
Spalding, Henry C., Boston, Mass. Electro-magnet	327,469	Sept. 29	3029	791	32	1593
Spalding, Henry C., Boston, Mass. Machine for winding electro-magnets	327,470	Sept. 29	3030	791	32	1593
Spalding, Henry C., Boston, Mass. Paper-cutting machine	327,471	Sept. 29	3031	791 792	32	1594
Spalding, Henry C., Boston, Mass. Composite electric cable	327,472	Sept. 29	3032	792	32	1594
Spalding, Henry C., Boston, Mass. Multiplex electrical cable	327,473	Sept. 29	3033	792	32	1594
Spalding, Henry C., Boston, Mass. Apparatus for laying underground conductors	327,474	Sept. 29	3034	792	32	1594
Spalding, Henry C., Boston, Mass. Pipe for underground electrical conductors	327,475	Sept. 29	3035	793	32	1594
Spalding, Henry C., Boston, Mass. Compound electrical cable	327,476	Sept. 29	3036	793	32	1594
Spalding, Henry C., Boston, Mass. Compound for insulating underground electric con-ductors	327,477	Sept. 29	3037		32	1595
Spalding, Henry C., Boston, Mass. Apparatus for laying underground lines of electrical conductors	327,478	Sept. 29	3038	793	32	1595
Spalding, Henry C., Boston, Mass. Splice for electrical conductors	327,479	Sept. 29	3039	793	32	1595
Spalding, Henry C., Boston, Mass. Underground electric conductor	327,480	Sept. 29	3040	794	32	1595
Spalding, Henry C., Boston, Mass. Underground electrical conductor	327,481	Sept. 29	3042	794	32	1595
Spalding, Henry C., Boston, Mass. Electrical conductor	327,482	Sept. 29	3042	794	32	1596
Spalding, Henry C., Boston, Mass. Subterranean electric cable	327,483	Sept. 29	3043	794	32	1596
Spalding, Henry C., Boston, Mass. Submarine electrical cable	327,484	Sept. 29	3044	795	32	1596
Spalding, Henry C., Boston, Mass. Subterranean electric conductor	327,485	Sept. 29	3045	795	32	1596
Spalding, Henry C., Boston, Mass. Anti-induction cable	327,486	Sept. 29	3047	795	32	1596
Spalding, Henry C., Boston, Mass. Anti-induction cable	327,487	Sept. 29	3048	795	32	1596
Spalding, Henry C., Boston, Mass. Anti-induction electrical cable	327,488	Sept. 29	3049	796	32	1597
Spalding, Henry C., Boston, Mass. Anti-induction cable	327,489	Sept. 29	3050	796	32	1597
Spalding, Henry C., Boston, Mass. Anti-induction cable	327,490	Sept. 29	3052	796	32	1597
Spalding, Henry C., Boston, Mass. Electrical cable	327,491	Sept. 29	3053	796	32	1598
Spalding, Henry C., Boston, Mass. Electric cable	327,492	Sept. 29	3055	797	32	1598
Spalding, Henry C., Boston, Mass. Electrical cable	327,493	Sept. 29	3056	797	32	1598
Spalding, Henry C., Boston, Mass. Electric cable	327,494	Sept. 29	3057	797	32	1599
Spalding, Henry C., Boston, Mass. Electric circuit	327,495	Sept. 29	3058	797	32	1599
Spalding, Henry C., Boston, Mass. Electrical circuit	327,496	Sept. 29	3059	798	32	1599
Spalding, Henry C., Boston, Mass. Electric circuit	327,497	Sept. 29	3060	798	32	1599
Spalding, Henry C., Boston, Mass. Safety device for electric circuits	327,498	Sept. 29	3061	798	32	1599
Spalding, Henry C., Boston, Mass. Safety device for electric circuits	327,499	Sept. 29	3063	798	32	1600
Spalding, Henry C., Boston, Mass. Safety device for electric circuits	327,500	Sept. 29	3064	799	32	1600

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Spalding, William J., Lockport, N. Y. Combined garden-drill and seed-sower	311,385	Jan. 27	1653	451 452	30	321
Spang, John. (See Raff, Henry L., assignor.)						
Spangle, William E., Lima, Wis. Belt-reel	325,986	Sept. 8	1013	239	32	1909
Spangler, Daniel, Hanford, Cal. Submarine wall	325,127	Aug. 25	2342	645	32	981
Spangler, Harrison D., Rushville, Ind. Plow-handle	311,770	Feb. 3	427	115	30	428
Spangler, Washington E., Way Cross, Ga. Edging sheet metal	316,196	Apr. 21	16-3	441	31	319
Sparham, Terence. (See Beacock and Sparham.)						
Sparks, Charles H., St. Louis, Mo. Indian-club	325,967	Sept. 8	1014	239	32	1210
Sparks, Edward G., New York, N. Y. Preparation of paraffine or wax paper	326,687	Sept. 22	1956	514	32	1397
Sparks, Edward G., Brooklyn, N. Y. Apparatus for making wax or paraffine paper	326,689	Sept. 22	1957	514	32	1398
Sparks, Edward G., Brooklyn, N. Y. Waxing paper	326,689	Sept. 22	1959	515	32	1398
Sparks, Lorenzo H., Triumph, assignor of one-half to D. H. Roe, Madison, Ohio. Cheese-vat	322,352	Oct. 13	1069	283	33	207
Sparks, William A., and N. Rappleyea, assignors to Stein Manufacturing Company, Rochester, N. Y. Burial-casket	320,410	June 16	2014	529	31	1429
Sparks, William E., assignor to Sargent & Co., New Haven, Conn. Reversible latch	312,916	Feb. 24	1977	540	30	738
Sparks, William E., assignor to Sargent & Co., New Haven, Conn. Reversible latch	312,917	Feb. 24	1979	540	30	738
Sparks, William E., assignor to Sargent & Co., New Haven, Conn. Reversible latch	314,533	Mar. 31	2290	604	31	1253
Sparks, William E., assignor to Sargent & Co., New Haven, Conn. Knob-latch	317,833	Oct. 6	428	111	31	75
Sparks, William E., assignor to Sargent & Co., New Haven, Conn. Sliding-door lock	321,004	Nov. 24	2206	507	33	943
Sparks, William E., assignor to Sargent & Co., New Haven, Conn. Mortise-latch	324,470	Dec. 15	1760	461	31	1326
Sparling, Bazzalotti D., and P. S. Fitch, Belmont, Ohio. Car-coupling	325,424	Sept. 1	3-2	78	32	1077
Sparrow, Frank M., Mattapoisett, Mass. Electric arc lamp	315,564	Apr. 14	627	218	31	154
Spatzler, August W., Leipzig, Germany. Anti-friction axle-bearing	323,966	Aug. 11	756	211	32	673
Spaulding, Charles A. (See Cato and Spaulding.)						
Spaulding, Charles F., Ellerbe h., N. J. Bridge-indicator for billiard-tables	317,871	May 12	1261	336	31	762
Spaulding, Frank, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Adjustable anvil for micrometer-gages	332,118	Dec. 8	1300	337	33	1238
Spaulding, George H., Chicago, Ill. Mechanism for adjusting the platforms of harvesters	325,367	Sept. 1	183	49	32	1049
Spaulding, M. H., guardian. (See Kneeland, Joseph C., assignor.)						
Spaulding, Mont. Orleans, Mich. Farm wagon	325,455	Sept. 1	334	78	32	1077
Spaulding, Nathan W., San Francisco, Cal. Insertible saw-tooth	315,853	Apr. 14	1211	316	31	227
Spearman, Thomas H., Ware, assignor to G. Draper & Sons, Hopedale, Mass. Lever-screw for holding weight-levers of rolls of spinning-machines	316,197	Apr. 21	16-4	441	31	319
Spear, Asa, Napa, Cal. Flood-fence	326,690	Sept. 22	1960	515	32	1398
Spear, Edward M. (See Wilson, Spear, and Peirce.)						
Spear, Henry A., Charlestown, and A. P. Wight, Jr., North Adams, assignors to themselves, H. C. Brownell, Newtonville, and F. Brownell, Newton, Mass. Smoke-consumer for locomotives, stationary boilers, furnaces, and stoves	310,920	Jan. 20	978	266	30	194
Spear, James, Philadelphia, Pa. House-furnace	325,281	Sept. 1	70	21	32	1029
Spear, Robert, New York, N. Y. Fluid-pressure regulator	311,038	Nov. 21	2097	368	33	928
Spear, Samuel S., South Weymouth, Mass. Sewing-machine guide	314,270	Mar. 21	1667	444	30	1112
Specht, Eugene, and L. Fix, Milwaukee, Wis. Heating-stove	319,931	June 9	1317	347	31	1397
Specialty Manufacturing Company. (See Jackson, William, assignor.)						
Speer, Carl and W. B., Baltimore, Md. Car-coupling	310,397	Jan. 6	227	63	30	44
Speer, James B. (See Ross, James C., assignor.)						
Speer, Joe T., Pittsburg, Pa. Machine for swaging bevels	330,520	Nov. 17	1474	394	33	801
Speer, William. (See S. O. S. eer, Carl and W.)						
Speer, William W., Pittsburg, Pa. Pipe-coupling	315,563	Apr. 14	628	218	31	154
Spees, David F., Vincennes, Ind., assignor to Singer Manufacturing Company of New Jersey. Thread holder and center for sewing-machines	332,759	Dec. 22	2204	581	33	1411
Speicher, Mathias. (See Simpson and Speicher.)						
Speicher, Samuel S., North Manchester, Ind. Broadcast-seeding machine	316,198	Apr. 21	1685	442	31	319
Speicher, Samuel S., Urbana, Ind. Broadcast seed-planter	323,663	Dec. 22	2474	655	31	1402
Speir, William E., Augusta, Ga. Perspective delineator for drafting	312,175	Feb. 10	961	268	30	5-7
Speller, Louis H., Philadelphia, Pa. Sparkless circuit-breaker	322,424	July 21	1470	36	32	281
Speller, Louis H., Philadelphia, Pa. Contact-maker for electric clocks	330,632	Nov. 17	1601	429	33	127
Spelman, Irwin H., Cortland, Ohio. Wooden tongue for joining flooring, &c.	317,933	May 5	413	103	31	509
Spelman, Michael, Shreveport, La. Car-coupling	330,166	Nov. 10	1605	213	33	701
Spelman, William C., et al. (See Ely, James L., assignor.)						
Spence, Payton, New York, N. Y. Compound for laundry-bluing	326,601	Sept. 22	1837		32	176
Spence, William M., Carson, Nev. Shirt	317,672	May 12	1262	331	31	763
Spencer, Albert H., et al. (See Garland, Milton H., assignor.)						
Spencer, Charles F., assignor to A. S. and E. B. Mann, Rochester, N. Y. Lacing	321,145	June 30	2077	783	31	1622
Spencer, Charles F., assignor to A. S. and E. B. Mann, Rochester, N. Y. Lacing for corsets, gloves, &c.	321,146	June 30	2079	789	31	1622
Spencer, Charles H. and J. B. Niantic, Conn. Shingle-slicing machine	311,639	Dec. 8	685	220	33	1104
Spencer, Clara L., assignor to D. E. Demsey, Geneva, N. Y. Combination fish-hook	315,967	Apr. 14	1379	357	31	250
Spencer, David E., et al. (See Kearney, Frank B., assignor.)						
Spencer, Edward, St. Louis, Mo. Verifying tally-sheet	323,427	Dec. 29	3123	616	33	15-1
Spencer, Edward E., New York, N. Y. Jack for the cl-burnishing machines	310,470	Jan. 6	3-9	103	30	1-3
Spencer, George H., et al. (See Hodges, Horace F., assignor.)						
Spencer, George H., Chicago, Ill. Grapple	292,019	July 14	811	219	21	101
Spencer, George H., Chicago, Ill. Barrel-truck	328,076	Oct. 13	743	791	33	141
Spencer, George N., Jackson, Mich. Magazine fire-arm	310,328	Jan. 6	2-1	61	30	44
Spencer, George W., St. James, Nehr. Harrow attachment for plows	322,760	July 21	1813	479	33	356
Spencer, Henry P., Forestville, N. Y. Step-ladder	313,690	Mar. 10	879	221	30	971
Spencer, Herbert R. (See Gould and Spencer.)						
Spencer, John E., assignor of one-half to Smith & Smart, Salem, Mass. Automatic damper-regulator	327,337	Sept. 29	2860	746	33	1564
Spencer, John S., New York, N. Y. Nose-pad for eyeglasses	330,521	Nov. 17	1475	395	33	802
Spencer, Joseph B. (See Spencer, Charles H. and J. B.)						
Spencer, Luke G., and P. F. Hazen, assignors to E. & T. Fairbanks & Co., St. Johnsbury, Vt. Weighing-scale	323,371	July 28	2690	716	32	512
Spencer, Samuel. (See Gillman and Spencer.)						
Spencer, Samuel, Radcliffe Bridge, county of Lancaster, England. Apparatus for dyeing, sizing, and wringing yarn	332,964	Dec. 22	2475	656	33	1462
Spencer, Sherman A., St. Louis, Mo. Card-feeding attachment for printing-presses	314,203	Mar. 17	1575	417	30	1086
Spencer, Thomas. (See Andrews and Spencer.)						
Spencer, William B., Terre Haute, Ind. Inhaler	314,495	Mar. 24	1961	522	30	1167
Spencer, William F., Richmond, Ind. Seat and opera-chair	316,495	Apr. 28	2097	550	31	398
Spengler, Christian G., Hoboken, N. J., assignor to G. Fuick, New York, N. Y. Operating sewing-machines	394,044	Aug. 11	860	238	39	690

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Spengler, Christian G., assignor, by mesne assignments, to C. R. Spengler, Hoboken, N. J., and O. E. A. Weisner, New York, N. Y. Mechanism for driving sewing-machines	330,522	Nov. 17	1476	395	33	809
Spengler, Christiana R., et al. (See Spengler, Christian G., assignor.)						
Sperry, Lyman B., Bellevue, Ohio, assignor to J. P. Lytle, Tiskilwa, Ill. Rectal speculum	322,619	Oct. 20	1467	392	33	282
Sperry, Norman. (See Clark, Robert H., assignor.)						
Spicer, Pratt A., Marshall, Mich. Self-binding grain-harvester	332,565	Dec. 15	1991	503	33	1353
Spiegel, Henry L., Indianapolis, Ind., assignor to F. W. Mix, New Britain, Conn. Case for locks	316,411	Apr. 21	1976	519	31	369
Spielman, George D., Cincinnati, Ohio. Snap-hook	311,791	Feb. 3	427	116	30	428
Spielman, George D., Cincinnati, Ohio. Hat-holder and coat-rack	330,434	Nov. 17	1360	363	33	780
Spielman, George D., Cincinnati, Ohio. Trunk fastener	330,435	Nov. 17	1362	363	33	780
Spielman, George D., Cincinnati, Ohio. Trace-fastener	330,436	Nov. 17	1364	363	33	780
Spielman, George D., Cincinnati, Ohio. Snap-hook	330,437	Nov. 17	1365	363	33	780
Spier, Alexander D., et al. (See Hunter, David, assignor.)						
Spier, Alexander D., assignor of two-tenths to A. S. Brown, Glasgow, county of Lanark, and D. Hunter, Troon, Scotland. Tackle for working ships' cleaning apparatus	348,814	May 26	2530	675	31	1011
Spier, Alexander D., assignor of two-tenths to A. S. Brown, Glasgow, county of Lanark, and D. Hunter, Troon, Scotland. Apparatus for cleaning submerged parts of ships	320,224	June 23	2541	673	31	1537
Spier, Anton, assignor of one-third to W. Klusemann, St. Louis, Mo. Air-ship	319,758	June 9	1059	281	31	1252
Spilzer, John P., Buffalo Prairie, Ill. Churn	314,073	Mar. 17	1405	366	30	1055
Spillinger, Joseph, Lancaster, Pa. Lamp-support	321,545	July 7	195	51	32	39
Spiro, Charles, New York, N. Y. Type-writing machine	322,495	July 21	1472	387	32	284
Spiro, Charles, New York, N. Y. Type-writing machine	322,989	July 28	2150	571	32	415
Spiro, Charles, New York, N. Y. Type-writing machine	331,337	Dec. 1	111	26	33	1018
Spitznagel, Frank X., Buffalo, N. Y. Filter	312,527	Feb. 17	1472	403	30	637
Spitznasa, William, New Athens, Ill. Hobby-horse	314,351	Mar. 24	1778	473	30	1123
Spitzer, Sigmund, Vienna, Austria-Hungary. Manufacture of starch	329,229	Oct. 27	2325	602	33	445
Spitzer, Sigmund, Vienna, Austria-Hungary. Hulling-machine	329,230	Oct. 27	2326	602	33	445
Spitzer, Sigmund, Vienna, Austria-Hungary. Carrier or elevator for painters, &c.	329,497	Nov. 3	98	26	33	524
Spitzer, Sigmund, Vienna, Austria-Hungary. Flour-purifier	329,498	Nov. 3	99	26	33	524
Spitzal, Alfred, West Troy, N. Y. Adhesive paper-lifter	317,234	May 5	414	104	31	599
Spivey, Thomas S., assignor of one-half to G. Webber, Cincinnati, Ohio. Fire-proof safe	333,855	Dec. 20	3031	792	33	1566
Spooner, Frederick B., Brooklyn, N. Y. Suspender-buckle	317,873	May 12	1263	336	31	763
Spooner, Marshall A., et al. (See Angell, Ransom S., assignor.)						
Sporer, Mathias, Hartford, Conn. Magazine fire-arm	320,126	June 16	1660	441	31	1366
Sporny, Josef, and I. Zarski, Warsaw, Russia. Roofing-plate	322,990	July 28	2154	571	32	415
Sprague, Albert J., Clarington, Ohio. Harrow	321,458	July 7	67	19	32	15
Sprague, Arthur A., San Rafael, Cal. Railway-station signal	317,590	May 12	892	223	31	693
Sprague, Charles A., Minneapolis, Minn. Sash-holder	331,660	Dec. 1	625	154	33	1107
Sprague, Charles D. (See Sprague, Dudley D., C. D., and P. J.)						
Sprague, D. D. (See Sprague, Pearley J., assignor.)						
Sprague, Daniel A. (See Perry and Sprague.)						
Sprague, Dudley D., California, C. D. Sprague, Chilhowee, and P. J. Sprague, Higbee, Mo.; said C. D. Sprague assignor to said Dudley D. and P. J. Sprague. Straw-stacker	311,209	Jan. 27	1394	381	30	277
Sprague, Dudley D., California, C. D. Sprague, Chilhowee, and P. J. Sprague, Higbee, Mo.; said C. D. Sprague assignor to said Dudley D. and P. J. Sprague. Straw-stacker for thrashing-machines	311,210	Jan. 27	1396	382	30	277
Sprague, Dudley D., California, and P. J. Sprague, Higbee, Mo.; said Dudley D. Sprague assignor to said P. J. Sprague. Straw-elevator for thrashing-machines	330,268	Nov. 10	1128	300	33	723
Sprague Electric Railway and Motor Company. (See Sprague, Frank J., assignor.)						
Sprague, Frank J., New York, N. Y. Regulator for electro-dynamic motors	313,247	Mar. 3	315	72	30	834
Sprague, Frank J., New York, N. Y. Electro-dynamic motor	313,546	Mar. 10	605	122	30	915
Sprague, Frank J., New York, N. Y. Electrical indicator	314,281	Mar. 31	2519	667	30	1296
Sprague, Frank J., New York, N. Y. Electro-dynamic motor	315,179	Apr. 7	264	64, 65	31	48
Sprague, Frank J., New York, N. Y. Electro-dynamic motor	315,180	Apr. 7	271	66	31	49
Sprague, Frank J., New York, N. Y. Electric motor and generator	315,181	Apr. 7	277	67	31	50
Sprague, Frank J., New York, N. Y. Electric motor and generator	315,182	Apr. 7	281	67	31	50
Sprague, Frank J., New York, N. Y. Electro-dynamic motor	315,183	Apr. 7	284	68	31	51
Sprague, Frank J., New York, N. Y. Electro-dynamic motor	321,150	June 30	2984	790	31	1623
Sprague, Frank J., New York, N. Y. Electric railway-motor	324,292	Aug. 25	2037	557	32	924
Sprague, Frank J., New York, N. Y. Electric railway system	328,221	Oct. 20	1721	448	33	330
Sprague, Frank J., North Adams, Mass., assignor to Sprague Electric Railway and Motor Company. Electric railway	317,235	May 5	415	104	31	599
Sprague, Frank J., New York, N. Y., assignor to Sprague Electric Railway and Motor Company. Operating electric railway-trains	318,668	May 26	2328	622	31	976
Sprague, Frank J., New York, N. Y., assignor to Sprague Electric Railway and Motor Company. Electro-dynamic motor	321,147	June 30	2979	789	31	1622
Sprague, Frank J., New York, N. Y., assignor to Sprague Electric Railway and Motor Company. Electro-dynamic motor	321,148	June 30	2981	789	31	1622
Sprague, Frank J., New York, N. Y., assignor to Sprague Electric Railway and Motor Company. Electric railway system	321,149	June 30	2982	790	31	1623
Sprague, Frank J., New York, N. Y., assignor to Sprague Electric Railway and Motor Company. Electric railway system	323,459	Aug. 4	96	28, 29	32	540
Sprague, Frank J., New York, N. Y., assignor to Sprague Electric Railway and Motor Company. Electro-dynamic motor	323,460	Aug. 4	99	29	32	541
Sprague, Frank J., New York, N. Y., assignor to Sprague Electric Railway and Motor Company. Electro-dynamic motor	324,291	Aug. 25	2035	557	32	923
Sprague, Frederick E. (See Patten and Sprague.)						
Sprague, Joseph W., et al. (See Barlow, Charles O., assignor.)						
Sprague, Joseph W., et al. (See Barlow and Emery, assignors.)						
Sprague, Myron E., Plymouth, Vt. Automatic discharger for evaporating pans	332,019	Dec. 8	1139	297	33	1211
Sprague, Oscar L., assignor of one-half to E. W. Morley, Andover, Ohio. Carpet-stretcher	326,063	Sept. 8	1122	286	32	1220
Sprague, Pearley J. (See Sprague, Dudley D., and P. J.)						
Sprague, Pearley J. (See Sprague, Dudley D., C. D., and P. J.)						
Sprague, Pearley J., Higbee, assignor to D. D. Sprague, California, Mo. Straw-stacker	326,801	Sept. 22	2140	557	32	1429
Sprague, S. Howard, Pittsburg, Pa. Bulb-case for incandescent electric lamps	326,459	Sept. 15	1648	431	32	1334

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Spratt, Joseph, Victoria, British Columbia, Canada. Offal-drier.....	318,050	May 19	1514	405	31	817
Spray, William R., Ingraham, Ill. Wagon-tongue support.....	314,074	Mar. 17	1406	367	30	1056
Spray, William R., assignor of one-half to J. W. Honey, Newton, Ill. Bee-hive attachment.....	325,988	Sept. 8	1015	259	32	1210
Spiegel, Hermann, Dantzig, Prussia, Germany. Closing apparatus for bottles, &c.....	320,715	June 23	2413	639	31	1512
Spring, George A., Covington, Pa. Soda-water apparatus.....	330,167	Nov. 10	1006	263	33	704
Spring, Jacob, Bridgewater, N. Y. Potato-digger.....	324,424	Aug. 18	1396	380	32	798
Spring, Menzo, San Francisco, Cal. Artificial-leg cord.....	312,396	Feb. 17	1285	355	30	603
Spring, Menzo, San Francisco, Cal. Hinge-joint.....	315,566	Apr. 14	829	218	31	154
Springe, Christian C., and C. J. Raiffeisen, Sedalia, Mo. Self-indicating measure for dry-goods, &c.....	332,965	Dec. 22	2476	656	33	1463
Springer, Alfred. (See Roeder and Springer.)						
Springer, Alfred, Cincinnati, Ohio, assignor to Torsional Balance and Scale Company, of Ohio. Balance.....	310,545	Jan. 6	496	137	30	95
Springer, Alfred, and F. A. Roeder, Cincinnati, Ohio. Balance.....	310,471	Jan. 6	390	108	30	75
Springer, James, assignor to Woven Cord Furniture Company, Chicago, Ill. Woven or knitted cord furniture.....	326,064	Sept. 8	1123	286	32	1230
Springer, John, Clinton, Wis. Heating-drum and ventilator.....	330,633	Nov. 17	1606	429	33	827
Springer, Stephen H., assignor of one-half to J. Hollingsworth and J. P. Bushnell, Des Moines, Iowa. Car-coupling.....	328,620	Oct. 20	1469	382	33	222
Springer, Theodore G., New York, N. Y. Process of and apparatus for manufacturing gas.....	314,739	Mar. 31	2291	608	30	1253
Springer, Theodore G., and G. W. Jeremy, New York, N. Y.; said Jeremy assignor to said Springer. Apparatus for the manufacture of gas.....	314,400	Mar. 24	1838	490	30	1145
Springer, Theodore G., and G. W. Jeremy, New York, N. Y.; said Jeremy assignor to said Springer. Manufacturing gas.....	314,486	Mar. 24	1962	523	30	1167
Springfield Brass Company. (See Zimmerman, John E., assignor.)						
Springfield Engine and Thresher Company. (See Kelly and Dieter, assignors.)						
Springfield Machine Company. (See Gelger and Beale, assignors.)						
Springfield Machine Company. (See Short, Robert L., assignor.)						
Springfield Manufacturing Company. (See Dixon, Robert W., assignor.)						
Springsteen, Nelson E., Detroit, Mich. Horse-shield.....	311,267	Jan. 27	1483	406	30	293
Springsteen, Nelson E., Detroit, Mich. Wagon-pole.....	316,671	Apr. 28	2318	608	31	439
Springsteen, Nelson E., Detroit, Mich. Pole-iron.....	317,681	May 12	1010	262	31	714
Sprinkel, Joseph M., Sterling, Ill. Dust collector.....	313,028	Feb. 24	2134	551	30	766
Sprinkle, George E., assignor to J. M. Briant and E. L. Eberhard, South Whitley, Ind. Double-acting force-pump.....	317,422	May 5	669	170	31	644
Sproat, Jesse M., North Benton, Ohio. Sap-boiling apparatus.....	318,815	May 26	2532	675	31	1011
Sproggell, John, and H. S. Haskins, assignors to E. Harrington, Son & Co., Philadelphia, Pa. Hoisting-machine.....	324,425	Aug. 18	1397	380	32	798
Spross, George A., and R. Meeker, Toledo, Ohio. Clothes-rack.....	317,236	May 5	419	105	31	600
Sprout, James M. (See Sprout, Samuel E. and J. M.)						
Sprout, Samuel E. and J. M. Muncy, Pa., assignors to said Samuel E. Sprout. Tray for drying fruit.....	318,436	May 19	2016	543	31	911
Spruce, James, assignor to Scovill Manufacturing Company, Waterbury, Conn. Copper-covered wire.....	314,618	Mar. 31	2134	568	30	1225
Spruce, James, assignor to Scovill Manufacturing Company, Waterbury, Conn. Curtain-pole joint.....	327,834	Oct. 6	429	111	33	75
Spruce, James, assignor to Scovill Manufacturing Company, Waterbury, Conn. Belt-fastener.....	328,822	Oct. 20	1722	448	33	330
Spruce, James, assignor to Scovill Manufacturing Company, Waterbury, Conn. Button.....	328,823	Oct. 20	1724	448	33	330
Spruce, James, assignor to Scovill Manufacturing Company, Waterbury, Conn. Suspender-buckle.....	331,661	Dec. 1	627	154	33	1108
Spruce, James, and A. M. Comstock, assignors to Scovill Manufacturing Company, Waterbury, Conn. Pail-ear.....	329,231	Oct. 27	2327	603	33	445
Spruce, James, and J. Tonks, assignors to Scovill Manufacturing Company, Waterbury, Conn. Screw-collar for glass vessels.....	327,338	Sept. 20	2662	747	32	1565
Spurr, Charles W., Boston, Mass. Veneering.....	329,499	Nov. 3	100	26	33	594
Spurr, Cyrus B., Columbia, Dak. Ter. Plow-carriage.....	332,566	Dec. 15	1953	503	33	1353
Spurr, William S., Franklin, Mass. Necktie.....	316,496	Apr. 28	2098	551	31	398
Spurrier, Jennie, Springfield, Ill. Adjustable fastener for mosquito-bars.....	313,116	Mar. 3	102	26	30	705
Spyer, Joseph, Santa Fé, New Mex. Ter. Preparing rubber plates for the vulcanizer.....	320,980	June 30	2763	300	31	1580
Spyer, Joseph, Santa Fé, N. Mex. Ter. Dental suction-plate former.....	331,840	Dec. 8	887	229	33	1164
Spyer, Joseph, and R. S. Ingalls, Newton, Kans. Dental plate.....	310,233	Jan. 6	91	24	30	30
Square Hole Auger Company. (See Oppenheimer, James, assignor.) (Reissue.)						
Squier, Charles A., Battle Creek, Mich. Tag.....	323,461	Aug. 4	99	29	32	541
Squier, Edgar A., Tiffin, Ohio. Centrifugal belting-reel.....	325,128	Aug. 25	2343	645	32	881
Squier, George L. (See Stevens, Henry B., assignor.)						
Squier, Horace S., Newark, N. J. Bridle-bit.....	312,397	Feb. 17	1286	355	30	603
Squier, Horace S., Newark, N. J. Rubber-covered bit.....	331,009	Nov. 24	2639	568	33	928
Squire, Charles A., Bradford, Mass. Welt-trimmer.....	331,338	Dec. 1	114	27	33	1019
Squire, Charles R., Brooklyn, N. Y., assignor of one-half to J. F. Hotchkiss, Plainfield, N. J. Preparing ores for amalgamation and desulphurizing the same.....	312,586	Feb. 17	1549	30	30	652
Squire, Charles R., New York, N. Y., assignor of one-half to J. F. Hotchkiss, Plainfield, N. J. Treatment of ores for amalgamation.....	312,587	Feb. 17	1549	30	30	652
Squire, H. W., et al. (See Dunbar, Junius H., assignor.)						
Squire, Rollin M., New York, N. Y. Staple.....	327,339	Sept. 29	2264	747	32	1565
Squires, Arthur H., Union City, Conn. Clothes-line fastener.....	329,824	Oct. 20	1725	449	33	331
Squires, John, Troy, N. Y. Collar.....	313,547	Mar. 10	697	182	30	916
Srygley, George O. C., Barton, Ala. Plow.....	312,398	Feb. 17	1286	356	30	603
Staats, Samuel W., Grand Bay, Ala. Joint for umbrellas.....	327,734	Oct. 6	306	78	33	73
Staats, William, assignor of forty-nine one-hundredths to G. W. Stewart, New York, N. Y. Inclined floor or platform for skating-rinks.....	321,320	June 30	3190	851	31	1663
Stabler, James P., Sandy Spring, Md. Rake.....	320,597	June 23	2263	598	31	1424
Stacker, John, assignor to Winsted Norway Bolt Company, West Winsted, Conn. Machine for heading bolts.....	312,309	Feb. 17	1287	356	30	603
Stackhouse, Joseph, Stockton, Cal. Mixed paint.....	333,169	Dec. 29	2776	30	33	1520
Stackhouse, Russell J. (See Corning and Stackhouse.)						
Stackpole, Charles F., Lynn, Mass. Rod-cutter.....	327,610	Oct. 6	144	34	33	27
Stackpole, Charles F., Lynn, assignor to N. J. Simonds, Woburn, Mass. Leather-cutting press.....	316,073	Apr. 21	1516	395 396	31	287
Stackpole, Charles F., Lynn, assignor to N. J. Simonds, Woburn, Mass. Leather-cutting press.....	316,074	Apr. 21	1518	396	31	288
Stadler, Peter C., Union Hill, N. J. Funnel.....	320,716	June 23	2413	640	31	1512
Stadlmeyer, Joseph, Newark, N. J. Sleeve-button.....	327,116	Sept. 29	2572	671	32	1513

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Stadtmueller, Max F. B., Castle Grove, Iowa. Hay-loader	330,188	June 16	1664	442	31	1367
Staeber, Theodor. (See Stange and Staeber.)						
Stafford, Frank, Auburn, N. Y. Harvesting-knife	311,792	Feb. 3	429	116	30	429
Stafford, H. B. (See Tyson, William, assignor.)						
Stafford, Orlando C. (See Lang and Stafford.)						
Stahl, Frank, Cleveland, Ohio. Shingle-sawing machine	316,301	Apr. 21	1819	478	31	343
Stahl, Harlow C., assignor to Fremont Cultivator Company, Fremont, Ohio. Cultivator	331,738	Dec. 1	742	186 187	33	1129
Stahl, Sidney S., Connellsville, Pa. Cartridge-shell holder	318,215	May 19	1721	460	31	857
Stahlberg, Charles, Waterbury, Conn. Manufacture of clock-works	336,602	Sept. 22	1837	422	32	1376
Staib, Henry, Jeffersonville, N. Y. Sash-holder	323,603	Aug. 4	290	83	32	576
St. Albans Manufacturing Company. (See Rice, David H., assignor.)						
Stalder, Fredrick, Allegheny City, Pa. Wagon-brake	324,045	Aug. 11	862	220	32	691
Stalder, Fredrick, Allegheny City, Pa. Car-brake	324,046	Aug. 11	863	229	32	691
Staley, James M., Womladorf, Pa. Car-coupling	313,548	Mar. 10	698	182	30	916
Staling, F. E. (See Murray, George W., assignor.)						
Stalnaker, Lloyd C., York, Pa. Fertilizer-distributor	333,263	Dec. 29	2909	761	33	1545
Stambaugh, Charles W., Cleveland, Ohio. Fence-post	318,816	May 26	2533	676	31	1011
Stambaugh, David F., St. Louis, Mo. Bed-bottom	327,611	Oct. 6	145	34	33	27
Stambaugh, George W., Troy, Ill. Stump-extractor	314,619	Mar. 31	2135	568	30	1225
Standard Boot and Shoe Lasting Company. (See Cross, William C., assignor.) (Reissue.)						
Standard Button Fastening Company. (See Mathison, Joseph, assignor.)						
Standard Cancellling Ballot Box Company. (See Benton, John B., assignor.)						
Standard Lighting Company. (See Davis, Zebulon, assignor.)						
Standard Machinery Company. (See Garland and Catlin, assignors.)						
Standard Multiplex Telegraph Company. (See Delany, Patrick B., assignor.)						
Standard Multiplex Telegraph Company. (See Delany and Calahan, assignors.)						
Standard Oiled Clothing Company. (See Emanuel, Henry, assignor.)						
Standard Pencil Company. (See Broughm, Stephen M., assignor.)						
Standard Time Company. (See Lund, John A., assignor.)						
Stanford, David W., Oakland, Cal. Centering-gage	316,919	Apr. 28	2695	702	31	509
Stanford, Arthur L., Fort Hill, Ill. Friction-clutch	312,400	Feb. 17	1290	356	30	604
Stanford, Arthur L., Fort Hill, Ill. Wood-cutting machine	324,603	Aug. 18	1696	447	32	841
Stanford, Frank H., assignor of one-fourth to J. H. Corwin, Elizabeth, N. J., and B. S. Clark, New York, N. Y. Car-coupling	325,876	Sept. 8	892	222	32	1185
Stange, Friederich, and T. Staeber, Ellinwood, Kans. Cultivator	311,268	Jan. 27	1484	407	30	224
Stanley, Charles W. (See Doyle and Stanley.)						
Stanley, James, Newark, N. J. Bridle-bit	317,034	May 5	133	34	31	546
Stanley, James, assignor to H. Congar, Newark, N. J. Belt-driving pulley	318,519	May 26	2134	575	31	942
Stanley, Lucius T., New York, assignor to J. S. Morgan, Brooklyn, N. Y. Mechanical musical instrument	322,566	July 21	1567	413	32	300
Stanley, Nelson D., Essex Junction, Vt. Tire-upsetter	319,861	June 9	1212	320	31	1278
Stanley Rule and Level Company. (See Mead, Charles L., assignor.)						
Stanley Rule and Level Company. (See Traut, Justus A., assignor.)						
Stanley, William, Jr., Pittsburg, Pa. Armature for dynamo-electric machines	313,894	Mar. 17	1170	305	30	1011
Stanley, William, Jr., Pittsburg, Pa. Induction-coil	320,717	June 23	2414	640	31	1512
Stanley, William, Jr., Pittsburg, Pa. Multiple incandescent electric lamp	322,496	July 21	1477	388	32	285
Stanley, William, Jr., Pittsburg, Pa. Holder for incandescent electric lamps	330,269	Nov. 10	1129	300	33	729
Stanley, William, Jr., Pittsburg, Pa. Globe for incandescent electric lamps	333,028	Dec. 22	2578	678	33	1480
Stanley, William, Jr., Englewood, N. J. Thermal cut-out	310,472	Jan. 6	392	109	30	76
Stanley, William, Jr., Englewood, N. J. Apparatus for charging and discharging secondary batteries	313,177	Mar. 3	102	26	30	795
Stanley, William, Jr., Englewood, N. J. Filament for incandescent electric lamps	316,302	Apr. 21	1821	479	31	343
Stanley, William, Jr., Englewood, N. J. Socket for incandescent electric lamps	324,884	Aug. 25	2041	559	32	924
Stanley, William, Jr., Englewood, N. J. Electric regulator	325,576	Sept. 1	480	120	32	1107
Stanley, William, Jr., Englewood, and E. P. Thompson, Elizabeth, N. J.; said Thompson assignor to said Stanley. Carbon for incandescent lamps	332,372	July 22	2693		32	512
Stannard, Monroe, Hartford, Conn. Screw-blank-heading machine	323,373	July 22	2694	716 717	32	512
Stansbury, Alfred D., Colliera, W. Va. Siphon	314,467	Mar. 24	1966	523	30	1167
Stanton, John C., Jr., et al. (See Melasser, John, assignor.)						
Stanton, John H., Newborn, Ga. Cotton-planter	321,321	June 30	3191	851	31	1663
Stanton, Lafayette J., Sand Lake, assignor to N. Chase, F. A. Taylor, F. J. Henry, and M. B. Shaw, Kalamazoo, Mich. Spring harrow-tooth	327,340	Sept. 29	2265	747	32	1565
Stanton, William M. (See Bold, Fred, assignor.)						
Stanwood, James B., assignor to Lane & Bodley Company, Cincinnati, Ohio. Valve-rod connection	313,961	Mar. 17	1272	332	30	1030
Stanwood, James B., assignor to Lane & Bodley Company, Cincinnati, Ohio. Cross-head for steam-engines	318,216	May 19	1721	460	31	857
Stapler, Henry S., Dolington, Pa. Snap-hook	318,817	May 26	2534	676	31	1012
Staples, Albert F., Franklin, Mass. Device for arresting the take-up mechanism of looms on breakage of the wett	333,029	Dec. 22	2579	678	33	1481
Staples, Elisha S. (See Whittemore, Arnold, and Staples.)						
Staples, John E., York, Me. Marine way and cradle for transferring boats through or above the surf to smooth water	321,916	July 7	693	180 181	32	126
Stapp, Robert B., assignor, by mesne assignments, to United States Carbonous Oxide Gas Company, Denver, Colo. Apparatus for manufacturing gas	317,423	May 5	670	170	31	944
Stapp, Robert B., assignor, by mesne assignments, to United States Carbonous Oxide Illuminating Gas Company, Denver, Colo. Manufacturing gas	318,318	May 19	1861	500	31	862
Star Iron Tower Company. (See O Belrne, William H., assignor.)						
Starbird, Walter H. (See Sheldon, Mark A., assignor.)						
Starbuck, Calvin T., Wilmington, Ohio. Bicycle-saddle	322,863	Oct. 20	1774	463	33	339
Starin, Duane. (See Stocking, Daniel, assignor.)						
Starin, Jacob J. (See Cramer, Michael, assignor.)						
Staring, De Witt. (See Cook, Shoots, and Staring.)						
Stark, Andrew, Topeka, Kans. Grain-binder	330,634	Nov. 17	1907	429 430	33	827
Stark, Frank G., New York, N. Y. Nut	327,612	Oct. 6	145	35	33	27
Stark, Frank G., New York, N. Y. Nut-lock	329,961	Nov. 3	589	151	33	615
Stark, Isidor, New York, N. Y. Attachment for pants	312,033	Feb. 10	779	212	30	501
Stark, Isidor, New York, N. Y. Supporting attachment for pants, overalls, and drawers	321,654	July 7	326	86	32	62
Stark, James N., and G. P. Bartlett, Woburn, Mass. Truss	316,303	Apr. 21	1821	479	31	344
Stark, John, Jr. (See Pulver, Henry H., assignor.)						
Stark, Leopold, Brooklyn, N. Y. Trimming	319,142	June 2	256	67	31	1094

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Stark, Michael J., Buffalo, N. Y. Solder-mold	325,704	Sept. 8	654	165	32	1142
Starkweather, Gleason F., Pullman, assignor to E. G. Shumway, Hyde Park, Ill. Lum-ber-drier	327,903	Oct. 6	510	132	33	91
Starkweather, Gleason F., Pullman, assignor to E. G. Shumway, Hyde Park, Ill. Lum-ber-drier	327,904	Oct. 6	511	133	33	92
Starkweather, Martin S., Boston, Mass. Horseshoe-pad	322,861	July 21	1959	519	32	372
Starnier, Jeffrey, Levering, Ohio. Wagon-standard	323,604	Aug. 4	291	84	32	576
Starr, Charles H., Logansport, Ind. Roofing	320,598	June 23	2145	566	31	1461
Starr, E. Eugene. (See Starr, Eli T. and E. E.)						
Starr Electric Storage Company. (See Starr, Eli T., assignor.)						
Starr Electric Storage Company. (See Starr, Eli T. and E. E., assignors.)						
Starr, Eli T., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Electric mouth and throat illuminator	313,782	Mar. 10	1009	261	30	974
Starr, Eli T., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Electric illuminator for the mouth and similar purposes	313,783	Mar. 10	1011	261	30	974
Starr, Eli T., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Primary or galvanic battery	321,917	July 7	694	181	32	196
Starr, Eli T., Philadelphia, Pa., assignor to Star Electric Storage Company, Camden, N. J. Secondary battery or electric accumulator	314,892	Mar. 31	2521	606	30	1996
Starr, Eli T. and E. E., Philadelphia, Pa., assignors to Starr Electric Storage Company, Camden, N. J. Secondary or storage battery	323,890	Aug. 4	652	185	32	646
Starr, Eli T. and E. E., Philadelphia, Pa., assignors to Starr Electric Storage Company, Camden, N. J. Secondary battery	327,341	Sept. 29	2865	747	32	1565
Starr, Eli T. and L. Teal, assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Head-rest for chairs	313,781	Mar. 10	1007	260	30	973
Starr, Ferdinand W., Springfield, Ohio. Wheel-hub	319,523	June 9	751	201	31	1195
Starr, Ferdinand W., assignor of one-half to T. Wall, Springfield, Ohio. Machine for oil-ling and polishing wheels	319,636	June 9	909	240	31	1224
Starr, Ferdinand W., assignor of one-half to T. Wall, Springfield, Ohio. Windmill	322,862	July 21	1961	519	32	372
Starr, Ferdinand W., assignor of one-half to T. Wall, Springfield, Ohio. Vehicle-hub	322,863	July 21	1962	519	32	373
Starr, Henry N., Rockford, Ill., assignor to R. P. Scott, Baltimore, Md. Bicycle	328,353	Oct. 13	1091	284	33	207
Starr, John F., Jr., Camden, N. J. Manufacturing sheet-metal pipe	312,301	Feb. 17	1159	317	30	579
Starrett, David J., Thomaston, Me., assignor of one-half to J. Ruggles, Cambridgeport, Mass. Paint-mixer	314,546	Mar. 24	2039	544	30	1180
Starrett, Laroey S., Athol, Mass. Screw-thread gage	318,051	May 19	1514	406	31	817
Starry, William H., Trenton, Ohio. Swinging gate	330,937	Nov. 24	2010	543	33	911
Startzman, George W. (See Clark, Alfred D., assignor.)						
Startzman, George W. (See Mast, Startzman, and Clark.)						
Stasch, Emil R., Corning, N. Y. Measuring-vessel	332,297	Dec. 15	1544	404	33	1288
Staufacher, George J., Monroe, Wis. Lamp-bracket	317,237	May 5	420	105	31	600
Staugard, Hans H., assignor to A. Ellwood, Sycamore, Ill. Wire-stretcher	324,893	Aug. 25	2038	558	32	924
Staubert, J. Galusha, Ellicottville, N. Y. Assembling-bolt	314,075	Mar. 17	1407	367	30	1056
Staubert, J. Galusha, Ellicottville, N. Y. Roof	314,076	Mar. 17	1408	367	30	1056
Staubert, J. Galusha, Ellicottville, N. Y. Runway for poultry-houses	322,075	July 14	914	237	32	174
Staubert, J. Galusha, Ellicottville, N. Y. Perch for fowls	322,076	July 14	915	237	32	175
Stausen, Herman, Whitewater, Wis. Buckle	330,012	June 16	1430	376	31	1324
Staver Implement Company, H. C. (See Smith, George K., assignor.)						
St. Clair, Robert, Veederburg, Ind. Side bar for buggies	314,077	Mar. 17	1409	368	30	1057
St. Claire, Josephine M., Cedar Rapids, Iowa. Corset	322,497	July 21	1480	389	32	265
Stead, James C., Brooklyn, N. Y. Steam-generator	311,450	Jan. 27	1735	473	30	339
Stead, James C., Brooklyn, N. Y. Steam-boiler	330,438	Nov. 17	1366	364	33	781
Steam Gauge and Lantern Company. (See Fox, William T., assignor.)						
Steam Heat Evaporator Company. (See Rogers and Allen, assignors.)						
Stearnes, Joseph, et al. (See Helms, Jacob H., assignor.)						
Stearns & Co., E. C. (See S.ely, Obadiah, assignor.)						
Stearns & Co., E. C. (See Warner, Warren E., assignor.)						
Stearns, Edward C., Syracuse, N. Y. Door-hanger	321,151	June 30	2985	791	31	1623
Stearns, Frank K. (See Johnson, Frank A., assignor.)						
Stearns, Henry A., Lincoln, R. I. Gas-service valve	325,969	Sept. 8	1016	259	32	1210
Stearns, James H., et al. See Sutton, Benjamin F., assignor.)						
Stearns, John F., Chester, assignor of one-half to R. J. Allen, Hartford, Conn. Auger	333,170	Dec. 29	2777	727	33	1520
Stearns Manufacturing Company. (See Miller, James S., assignor.)						
Stearns Manufacturing Company. (See Miller and Lapham, assignors.)						
Stearns, Walter H., Jr., Newton, Mass. Artificial stone or marble	321,459	July 7	69		32	15
Stears, Emily A., Brooklyn, N. Y. Wash-basin or similar vessel	328,334	Oct. 13	1093	284	33	208
Stebbins, Darius, assignor to H. H. Rice and E. T. Cornwall, Cheshire, Conn. and E. A. Cornwall. Buckboard-wagon	317,035	May 5	125	34	31	547
Stebbins, James H., Jr., New York, N. Y. Red coloring-matter	313,119	Mar. 3	106		30	796
Stebbins, James H., Jr., New York, and P. Casanajor, Brooklyn, N. Y. Water and alkali proof fabric	316,075	Apr. 21	1518		31	288
Stebbins, Nathan M., assignor of one-half to E. Shaw, Wales, Mass. Valve	313,549	Mar. 10	609	183	30	916
Steber, Joseph C., assignor to C. V. Manner, San Francisco, Cal. Screw-tap. (Reis-sue)	10,646	Sept. 22	2329	610	32	1461
Steck, Ernst F., Chicago, Ill. Hose-wagon	325,990	Sept. 8	1019	260	32	1210
Steck, Ernst F., Chicago, Ill. Hose-carriage	326,930	Sept. 22	2332	608	32	1463
Steck, Ernst F., Chicago, Ill. Chemical fire-extinguisher	327,342	Sept. 29	2666	748	32	1565
Steck, Ernst, Chicago, Ill., assignor to Fire Extinguisher Manufacturing Company. Ve-hicle-brake	321,546	July 7	196	52	32	39
Steckler, Louis, et al. (See Meisner, John, assignor.)						
Stedman, David R. (See Stedman, George A. and D. R.)						
Stedman, David R., Elizabeth, N. J. Window shade and awning	317,238	May 5	420	105	31	600
Stedman, George A., New York, N. Y., and D. R. Stedman, Elizabeth, N. J., assignors of one-half to R. J. Bowen, Berlin, Md. Hay raking and loading machine	320,598	June 23	2264	599	31	1484
Stedman, Nathan, and J. N. Sargent, Aurora, Ind. Railway-frog	329,664	Oct. 20	1775	463	33	330
Steel Horse Collar Company. (See Fisher, Ebenezer, assignor.)						
Steel, J. F. (See Bartley, Harvey, assignor.)						
Steel, James, Paterson, N. J. Hand-truck	319,524	June 9	752	201	31	1196
Steel, James, assignor of one-half to G. Mahan, Memphis, Tenn. Pipe	320,981	June 30	2764	734	31	1573
Steele, Charles R., et al. (See Wilson, Merrick F., assignor.)						
Steele, Edward D., Waterbury, Conn. Button-fastener	316,304	Apr. 21	1822	479	31	344
Steele, Edward D., Waterbury, Conn. Button-fastener	316,305	Apr. 21	1823	479	31	344

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Steele, Frederick M., administrator. (See Wilkinson, Lewis.)						
Steele, Herbert B., Somerville, Mass. Lathe and planer tool.	312,034	Feb. 10	780	313	30	501
Steele, Oliver. (See Atkin, Samuel T., assignor.)						
Steele, Oliver. (See Atkin and Steele, assignors.)						
Steele, Ransom, assignor of one-half to A. M. Hyde, New Britain, Conn. Marking-gage	310,964	Jan. 20	1046	284	30	206
Steele, Sylvanus W. (See Milliron, Jacob, Jr., assignor.)						
Steele, Walter L. (See Atkin and Steele.)						
Steele, William B., Berlin, Minn. Draft-equalizer	311,042	Jan. 20	1154	314	30	228
Steelman, Jonas, Jr., et al. (See Trego, A. Homer, assignor.)						
Steen, James H., Canton, Ohio. Adjustable axle-nut	333,030	Dec. 22	2580	678	33	1481
Steen, Theodore J., Oakland, Nebr. Chimney-cap	312,918	Feb. 24	1980	540	30	738
Steers, Albert W., Strawn, Ill. Combined table and culinary receptacle	326,526	Sept. 15	1733	451	32	1350
				452		
Steers, Schuyler B., New Orleans, La. Bale heading and lifting attachment for presses	320,719	June 23	2416	640	31	1513
				641		
Steers, William, Brattleborough, Vt. Bench-plane	310,473	Jan. 6	393	109	30	76
Steers, William, Brattleborough, Vt. Carpenter's square	320,718	June 23	2416	640	31	1513
Stegemann, Adolph, New York, N. Y. Repetition-action for upright pianos	317,874	May 12	1264	337	31	763
Stehlin, Joseph, New York, N. Y. Clothes-brush	330,270	Nov. 10	1131	301	33	729
Steiger, Andrew. (See Rice, Steiger, and Thurber.)						
Steiger, Andrew W. (See Steiger, William T. and W. H., assignors.)						
Steiger, John J., Peoria, Ill. Traction-increaser for locomotives	332,298	Dec. 15	1545	404	33	1288
Steiger, Walter H. (See Steiger, William T. and W. H.)						
Steiger, William T. and W. H., Howard County, Md., assignors of one-third to A. W. Steiger, New York, N. Y. Device for preventing snow-drifts in road-cuts, &c	319,143	June 2	257	67	31	1094
Stein, Emanuel. (See Gordon, Thomas, assignor.)						
Stein Manufacturing Company. (See Sparks and Rappleyea, assignors.)						
Stein, William. (See White, William, assignor.)						
Steinman, Simon, and A. L. Seelgman, New York, N. Y. Knitted or cardigan jacket	317,682	May 12	1011	262	31	714
Steinan, Jacob A., assignor to S. H. Sahlein, New York, N. Y. Elastic garment-support						
Steinbach, George P., Baltimore, Md. Wheel-securing device	324,426	Aug. 18	1399	380	32	799
Steinbach, John A., assignor of one-half to J. Steinbach, Dayton, Ohio. Coal-bucket	330,748	Nov. 17	1763	475	33	858
Steinbach, Joseph. (See Steinbach, John A., assignor.)	324,427	Aug. 18	1399	381	32	798
Steinberger, Louis, New York, N. Y. Oil-drip washer for roller-skates	320,232	Oct. 27	2328	603	33	445
Steinberger, Louis, New York, N. Y. Box-handle for canes or umbrellas	331,095	Nov. 24	2207	597	33	948
Steinbrecher, William H. (See Nessel and Steinbrocher.)						
Steinebach, Fredrick, and H. Wright, New York, N. Y. Fire-escape	326,160	Sept. 15	1263	325	32	1262
Steinem, Emanuel. (See Schroeder, George G., assignor.)						
Steiner, Josef, Brooklyn, N. Y. Electro-magnet armature	329,782	Nov. 3	480	121	33	506
Steinke, Hermann, Brooklyn, N. Y., and M. Limprecht, Union Hill, N. J. Vapor apparatus for hot-houses, &c	320,411	June 16	2015	529	31	1429
Steinly, Charles. (See Kanfhold and Steinly.)						
Steinmetz, Daniel, Sr., et al. (See Helliwell, Robert B., assignor.)						
Steinmetz, Philip J., et al. (See Helliwell, Robert B., assignor.)						
Steinway, C. F. Theodor, New York, N. Y. Piano-frame	314,740	Mar. 31	2294	608	33	1254
Steinway, C. F. Theodor, New York, N. Y. Piano-pedal	314,741	Mar. 31	2295	609	30	1254
				609		
Steinway, C. F. Theodor, New York, N. Y. Piano-frame	314,742	Mar. 31	2296	610	30	1254
				610		
Steinway, C. F. Theodor, New York, N. Y. Panel for upright pianos	315,447	Apr. 7	638	165	31	114
Stelle, Randolph M., et al. (See Beach, William W., assignor.)						
Steller, Charles E., Milwaukee, Wis. Transom-lifter	317,036	May 5	135	35	31	547
Stellwagen, Edward J., Washington, D. C. Collar-button and necktie-holder	317,239	May 5	421	106	31	600
Stellwagen, Michael F., and A. E. Lytle, St. Ignace, Mich. Mail-bag	313,630	Mar. 10	804	211	30	935
Stelter, Wilhelm. (See Schach and Stelter.)						
Stempel, Omar A., assignor of one-half to M. S. Barnett, St. Louis, Mo. Argand-lamp-wick trimmer	314,743	Mar. 31	2299	610	30	1255
Stender, Charles F. G., assignor of one-half to Garfield Manufacturing Company, Chicago, Ill. Harness-loop	318,818	May 26	2535	676	31	1012
Stephen, George. (See Boynton and Stephen.)						
Stephen, Johnston, Edinburgh, county of Mid-Lothian, Scotland. Individual call	332,567	Dec. 15	1924	503	33	1354
				504		
Stephens, Edward W., Erie, Pa. Ore-concentrator	325,129	Aug. 25	2344	646	32	981
Stephens, Edward W., Erie, Pa. Ore-concentrator	329,862	Nov. 3	591	151	33	615
				152		
Stephens, John E., Detroit, Mich. Lamp-stove	327,613	Oct. 6	147	35	33	27
Stephens, John G., Brooklyn, assignor, by meane assignments, to D. E. Thebaud, New York, N. Y. Cleaning and separating the pulpy matters from the fibers and leaves of plants	328,355	Oct. 13	1094	284	33	208
				285		
Stephens, John G., Brooklyn, assignor, by meane assignments, to D. E. Thebaud, New York, N. Y. Apparatus for cleansing pulpy matters from fibers	328,356	Oct. 13	1097	285	33	208
Stephens, John G., Brooklyn, assignor, by meane assignments, to D. E. Thebaud, New York, N. Y. Machinery for cleaning and separating the pulpy matters from fibers of leaves, &c	328,357	Oct. 13	1099	285	33	209
				286		
Stephens, John R., Portland, Oreg. Railway-switch	320,982	June 30	2764	734	31	1584
				735		
Stephens, Joseph J., Colesburg, Mo. Saddle-bags	321,152	June 30	2966	791	31	1624
Stephens, Nathan, Brooklyn, and M. L. Ritchie, assignors to Eagle Tube Company, New York, N. Y. Utilizing old boiler-tubes	319,144	June 2	258	67	31	1095
Stephens, Richard, Albany, N. Y. Cover for fruit-baskets	311,311	Jan. 27	1397	382	30	277
Stephens, Roe. (See Desmond, John, assignor.)						
Stephens, Samuel, Indianapolis, Ind. Band-saw mill	332,365	Dec. 15	1644	431	33	1305
Stephens, William, New Richmond, Wis. Drive-chain	322,653	July 21	1674	443	32	320
Stephens, William G., et al. (See Pendleton, John H., assignor.)						
Stephenson, Albert, et al. (See Mellum, Ole H., assignor.)						
Stephenson, Alvin E., Charlestown, Ohio. Fence-post	312,919	Feb. 24	1961	541	30	739
Stephenson, David J., Port Huron, Mich. Automatic advertising device	317,940	May 5	422	106	31	600
Stephenson, John, New York, N. Y. Car-body truss	311,541	Feb. 3	114	33	30	370
Stephenson, John, New York, N. Y. Car-body truss	317,683	May 12	1012	263	31	715
Stephenson, John, New York, N. Y. Car-body truss	319,525	June 9	753	202	31	1196
Stephenson, John, New York, N. Y. Car-body truss	319,526	June 9	754	202	31	1196
Stephenson, John, New York, N. Y. Car-window sash	322,967	Aug. 11	757	211	32	673
Stephenson, John, New York, N. Y. Tram-car signal-cord sheave	326,705	Sept. 8	656	163	32	1147
Stephenson, John, New York, N. Y. Tram-car draw-head	327,614	Oct. 6	149	35	33	27

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Stephenson, John, New York, N. Y. Change-gate for car-doors.....	331,010	Nov. 24	2100	568	33	926
Stephenson, M. Elmer, Boston, Mass. Flower-stand.....	319,339	June 2	494	133	31	1142
Stephenson, William, Jordan, Ontario, Canada. Boiler and straw-burning furnace.....	310,740	Jan. 13	744	202	30	147
Stephenson, Zadok, Verona, Ky. Clothes-drier.....	330,749	Nov. 17	1764	475	33	858
Sterling, Joseph A. (See Groesbeck, Ball, and Sterling.)						
Sterling, William H., and D. D. Wassa, New York, N. Y. Car-axle lubricator.....	323,605	Aug. 4	292	84	32	576
Stern, Aaron D., Chicago, Ill. Printer's rule.....	312,302	Feb. 17	1161	317	30	579
Stern, Jonathan, Savannah, Ga. Time-piece dial.....	319,033	June 2	193	34	31	1071
Stern, Max D. (See Brown and Stern.)						
Stern, Philip K., Toronto, Ontario, Canada. Incandescent electric lamp.....	322,498	July 21	1469	389	32	285
Stern, Rebecca, Philadelphia, Pa. Decoration of silvered glass surfaces and signs.....	322,864	July 21	1963	520	32	373
Sternberg, Charles H., Lawrence, Kans. Composition for fuel.....	316,580	Apr. 28	2900		31	418
Sternberg, William, Cicero, N. Y. Tobacco-transporting rack. (Reissue).....	10,560	Feb. 10	1080	294	30	554
Sternberger, Herman S., Piqua, Ohio. Folding dress-pillow.....	319,340	June 2	495	134	31	1142
Sternberger, Herman S., Piqua, Ohio. Folding dress-pillow.....	324,604	Aug. 18	1629	448	32	841
Sterne, Louis, London, county of Middlesex, England. Spring.....	316,306	Apr. 21	1824	480	31	344
Sterns, Ezra L. (See Sheehan, James H., assignor.) (Reissue.)						
Sterns, William W. (See Phelps and Sterns.)						
Stetson, Amos H., Brookline, Mass. Apparatus for actuating the lever of a railway-signal.....	313,895	Mar. 17	1171	305	30	1011
Stetson, Amos H., Brookline, assignor to C. B. Wheelock, Braintree, Mass. Card or print hanger.....	312,035	Feb. 10	780	213	30	501
Stetson, George R., assignor to himself and Morse Twist Drill and Machine Company, New Bedford, Mass. Machine for making twist-drills.....	312,401	Feb. 17	1292	356 357	30	604
Stetson, George R., assignor to himself and Morse Twist Drill and Machine Company, New Bedford, Mass. Reamer.....	312,920	Feb. 24	1962	541	30	738
Stetson, George R., assignor to himself and Morse Twist Drill and Machine Company, New Bedford, Mass. Manufacturing twist-drills.....	331,739	Dec. 1	743	188	33	1130
Stetson, Joseph B., Lincoln, Me. Lantern.....	314,744	Mar. 31	2299	610	30	1255
Stetson, William H., et al. (See Loop, A. Irwin, assignor.)						
Stetzer, Valentine F., Toledo, Ohio. Spring piston-packing ring.....	331,458	Dec. 1	291	79	33	1050
Stenart, James. (See Wilson and Steuart.)						
Stenssay, David, Monticello, Wis. Harness.....	329,685	Nov. 3	349	99	33	571
Stevens, Alfred L., Darien, Conn. Horseshoe.....	323,082	July 28	2281	602	32	436
Stevens, Amasa W., East Brookfield, Mass. Rotary tray, &c.....	327,032	Sept. 29	2436	641	32	1493
Stevens, Ambrose B., et al. (See Maguire, John, assignor.)						
Stevens, Andrew J., Sacramento, Cal. Valve-gear for steam-engines.....	324,964	Aug. 25	2130	562	32	942
Stevens, Andrew J., Sacramento, Cal. Deflector-plate for fire-boxes.....	329,603	Nov. 3	247	64	33	552
Stevens, Andrew J., Sacramento, Cal. Feed-water purifier.....	311,917	Dec. 8	994	257	33	1184
Stevens, Bernard F., Scotia, Nebr. Trace-carrier.....	326,802	Sept. 22	2141	557	32	1430
Stevens, Charles P., Boston, Mass. Stamp-pad.....	316,072	Apr. 28	2318	608	31	440
Stevens, Edgar B. (See Hoffman, William M., assignor.)						
Stevens, Edgar H. (See Inman and Stevens.)						
Stevens, Francis B., Hoboken, N. J. Gage and level indicating device for railway-tracks.....	325,706	Sept. 8	657	166	32	1143
Stevens, Frank M., New York, N. Y., assignor to Stevens Locomotive and Machine Company. Balanced slide-valve.....	320,509	June 23	2266	509	31	1484
Stevens, Frank M., New York, N. Y., assignor to Stevens Locomotive and Machine Company. Valve-operating mechanism.....	323,606	Aug. 4	292	84	32	576
Stevens, Frank W., et al. (See Young, Harlan P., assignor.)						
Stevens, Frank W., Lowell, Mass. Door-mortising machine.....	312,669	Feb. 24	1652	456	30	681
Stevens, George E., et al. (See Ely, James L., assignor.)						
Stevens, George W. (See Graham, Joseph S., assignor.)						
Stevens, Greenville M., Portland, Me. Machine for forming pulp into vessels of various kinds.....	330,720	June 23	2419	641	31	1513
Stevens, Grenville M., Deering, Me. Pulp-machine.....	333,428	Dec. 29	3123	816	33	1581
Stevens, Harley M., Bismarck, Dak. Ter. Tag.....	314,020	Mar. 31	2126	560	30	1225
Stevens, Henry A., Norristown, Pa. Truck.....	324,499	July 21	1483	389	32	985
Stevens, Henry B., assignor to G. L. Squier, Buffalo, N. Y. Boring-lathe.....	327,343	Sept. 29	2872	749	32	1568
Stevens, Hermann, Homestead, Pa. Reversing-valve.....	323,462	Aug. 4	100	30	32	541
Stevens, Irving D. (See Eberhart, Lloyd, assignor.)						
Stevens, Irving D. (See Eberhart and Stevens.)						
Stevens, James F. (See Gasner and Stevens.)						
Stevens, John. (See Leonard and Stevens.)						
Stevens, John, Neenah, Wis. Automatic weighing-machine.....	325,222	Sept. 1	70	21	32	1029
Stevens, John H. (See Lockwood, Hyatt, and Stevens.)						
Stevens, John H., Sandwich, Mass. Weighing-scale.....	319,637	June 9	911	240	31	1224
Stevens, John H., and W. H. Wood, Newark, N. J., assignors to Celluloid Manufacturing Company, New York, N. Y. Utilizing celluloid, &c., in the production of enameled goods or veneering.....	329,093	Oct. 27	2122		33	408
Stevens, John J., Soldier, Iowa. Churn.....	317,875	May 12	1205	337	31	763
Stevens, John L., assignor to J. W. Kepler, Chicago, Ill. Box-fastener.....	316,412	Apr. 21	1978	519	31	370
Stevens, John S., and C. G. Major, Battersea, county of Surrey, and T. W. Barber, Ulverston, county of Lancaster, England. Hydraulic lift.....	313,921	Feb. 24	1983	541	30	738
Stevens, John S., C. G. Major, Battersea, county of Surrey, and T. W. Barber, Ulverston, county of Lancaster, England. Hydraulic lift.....	313,350	Mar. 10	700	183	30	916
Stevens, John S., and C. G. Major, Battersea, county of Surrey, England. Combined door spring and check.....	328,077	Oct. 13	744	194	33	141
Stevens, Lellie E. (See Stevens, Lucious O. and L. E.)						
Stevens, Levi, Washington, D. C. Casting hollow metal bodies with a non-oxidizable lining.....	327,033	Sept. 30	2457		32	1494
Stevens, Levi, Washington, D. C. Apparatus for manufacturing gas.....	328,149	Oct. 13	234	217	33	158
Stevens, Levi, Washington, D. C. Apparatus for manufacturing illuminating-gas.....	328,150	Oct. 13	236	218	33	152
Stevens, Levi, Washington, D. C. Manufacturing illuminating-gas.....	328,151	Oct. 13	837	218	33	158
Stevens, Levi, Washington, D. C. Furnace for boilers.....	333,429	Dec. 29	3124	816	33	1589
Stevens, Levi, Washington, D. C. Furnace for steam-boilers.....	333,430	Dec. 29	3126	817	33	1589
Stevens Locomotive and Machine Company. (See Stevens, Frank M., assignor.)						
Stevens, Lucious O. and L. E., Burlington, Iowa. Grain-cleaner.....	320,043	June 16	1431	376	31	1394
Stevens, Philip, Toledo, Ohio. Towel-rack.....	318,147	May 19	1635	437	31	840
Stevens, Samuel A. (See Whittlesey, Charles E., assignor.)						
Stevens, Samuel F., North Adams, Mass. Railway passenger-tariff and distance guide-book.....	310,329	Jan. 6	233	64	30	44
Stevens, Samuel F., North Adams, Mass. Railway time-table and distance guide-book.....	310,330	Jan. 6	234	64	30	45
Stevens, Sidney F. (See McKenzie, Angus, assignor.)						
Stevens, William. (See Page, Robinson, and Stevens.)						
Stevens, William, Philadelphia, Pa. Elevator.....	330,750	Nov. 17	1765	476	33	858

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Stevens, William C. (See Taylor, Miles D., assignor.)						
Stevens, William E., San Francisco, Cal. Chimney for dwelling-houses	311,149	Jan. 20	1307	360	30	255
Stevens, William H., et al. (See Gibson, Selden F., assignor.)						
Stevens, William H., Coldwater, Mich. Wheel-felly machine	317,876	May 12	1266	337	31	763
Stevens, William L., Boston, Mass. System for the transmission of power by electricity	316,076	Apr. 21	1519	397	31	288
Stevens, William L., Boston, Mass. Safety-box for electric circuits	316,077	Apr. 21	1523	397	31	289
Stevens, William L., Dorchester, and E. J. Wescott, Hyde Park, Mass. Primary electric clock	330,938	Nov. 24	2012	543	33	919
Stevens, William X., Washington, D. C. Hose-guard for railways	310,331	Jan. 6	236	64	30	45
Stevens, David J., assignor of one-half to F. G. Nott, Minneapolis, Minn. Car-coupling	321,918	July 7	697	182	32	127
Stevenson, James. (See Price and Stevenson.)						
Stevenson, James N., Salvisa, Ky. Weeding and thinning device for growing plants	313,631	Mar. 10	806	211	30	936
Stevenson, Joseph P., Lewistown, Pa. Car-wheel	319,341	June 2	496	134	31	1142
Stevenson, Robert A., New York, N. Y. Lantern	314,271	Mar. 24	1669	444	30	1113
Stevenson, Samuel J., Philadelphia, Pa. Lubricator	310,741	Jan. 13	745	202	30	147
Stevenson, Thomas H., Greensburg, Ind. Tool for corrugating rolls	312,923	Feb. 24	1985	542	30	739
Stevenson, William H. H., Baltimore, Md. Can-filling machine	314,372	Mar. 24	1779	473	30	1134
Stevenson, William H. H., Baltimore, Md. Can-soldering machine	325,130	Aug. 25	2346	646	32	982
Stevenson, William H. H., Baltimore, Md. Filling fruit-cans with liquid	325,131	Aug. 25	2347	647	32	982
Stevenson, William M., Cleveland, Ohio. Non-freezing force-pump	329,233	Oct. 27	2329	603	33	445
Stevenson, William M., Cleveland, Ohio. Non-freezing force-pump	325,234	Oct. 27	2331	604	33	446
Stevenson, William M., South Cleveland, Ohio. Pump-piston	329,235	Oct. 27	2332	604	33	446
Stever, Jeremiah, Bridgeport, assignor of one-third to I. E. Booth, Jr., Trumbull, Conn. Adjustable grate for stoves and furnaces	327,615	Oct. 6	150	36	33	28
Steward, Arthur P., Washington, D. C. Portable stove and oven	329,783	Nov. 3	481	121	33	596
Steward, Arthur P., assignor of two-thirds to T. L. and W. Fracker, Washington, D. C. Portable oven	317,878	May 12	1268	338	31	764
Steward, George H. (See Hunt and Steward.)						
Steward, John F., Chicago, Ill. Harvester-covering	311,542	Feb. 3	115	33, 34	30	371
Steward, John F., Chicago, Ill. Harvester	315,567	Apr. 14	830	219	31	154
Steward, John F., and R. H. Dixon, Chicago, Ill. Harvester-binder	314,272	Mar. 24	1670	444	30	1113
Stewart, Alvin J., Bluffton, Ind. Automatic gas-regulator	332,566	Dec. 15	1926	505	33	1354
Stewart, Burnet B. (See Johnston and Stewart.)						
Stewart, Chase. (See Dixon, Robert W., assignor.)						
Stewart, David P., Buffalo, N. Y. Pump	314,078	Mar. 17	1410	368	30	1057
Stewart, Duncan. (See Adam and Stewart.)						
Stewart, Edward J., New York, N. Y., assignor of one-half to R. A. Wood, Newark, N. J. School-slate	833,483	Dec. 29	3198	836	83	1594
Stewart, Elias M., Richmond, Canada. Cuff-button	322,208	July 14	1087	282	32	207
Stewart, Frederick W., Oswego, N. Y. Darning attachment for sewing-machines	312,923	Feb. 24	1985	542	30	739
Stewart, George W. (See Staats, William, assignor.)						
Stewart, George W., assignor of one-half to S. J. Cox, New York, N. Y. Telegraph-instrument	330,271	Nov. 10	1132	301	33	729
Stewart, George W., assignor of one-half to S. J. Cox, New York, N. Y. Telegraph-sounder	330,635	Nov. 17	1609	430	33	828
Stewart, George W., assignor of two-thirds to S. J. Cox, New York, N. Y. Automatic shade-roller	332,299	Dec. 15	1546	405	33	1288
Stewart, James, Detroit, Mich. Adjustable stove-pipe hanger and fastener	312,924	Feb. 24	1986	542	30	739
Stewart, James, Jr. (See Bynon and Stewart.)						
Stewart, James M. (See Drumm and Wyker, assignors.)						
Stewart, John, Grantville, Tenn. Rail-joint	321,655	July 7	326	87	32	62
Stewart, John L., Philadelphia, Pa. Manufacturing gas	329,967	Nov. 10	740	188	33	650
Stewart, John L., Philadelphia, Pa. Apparatus for manufacturing gas	322,569	Dec. 15	1928	505	33	1354
Stewart, John M., Spencer, Ind. Spring for doors and gates	317,877	May 12	1267	338	31	764
Stewart, Linus, San Francisco, Cal. Separator	327,735	Oct. 6	307	79	33	54
Stewart, Robert, Pittsfield, Ill. Steam-boiler cleaner	319,862	June 9	1213	320	31	1278
Stewart, Robert D. (See Linton and Stewart.)						
Stewart, Robert H., assignor to J. R. Larus, Baltimore, Md. Milk-skimmer	333,484	Dec. 29	3199	836	83	1594
Stewart, Samuel, Newark, N. J. Coffee-roaster	327,344	Sept. 29	2874	749	32	1567
Stewart, Samuel M., McComb, Ohio. Ditching-machine	331,217	Nov. 24	2389	646	33	980
Stewart, Sarah H., Concord, N. H. Check-roll	318,819	May 26	2537	676	31	1012
Stewart, Shaw, Stuart, Iowa. Railway-rail joint	317,037	May 5	137	35	31	547
Stewart, Thomas S., Saltsburg, Pa. End-gate for dumping-wagons	315,969	Apr. 14	1381	358	31	255
Stewart, Thomas S., Saltsburg, Pa., assignor of one-fourth to H. R. Josselyn, Chicago, Ill. Dumping-wagon	315,968	Apr. 14	1380	357	31	255
Stewart, Timothy B., Hartford, Conn. Street-railway car	326,527	Sept. 15	1734	452	32	1351
Stewart, Walter G., Reading, Pa. Drawing-board and drafting appliance	318,319	May 19	1862	500	31	882
Stewart, Wesley H., Louisa, Ala. Churn	313,248	Mar. 3	318	78	30	834
Stewart, William, Brooklyn, N. Y. Bottle-stopper	320,189	June 16	1665	443	31	1367
Stewart, William H., Boonville, Mo. Brick-machine	321,083	July 28	2292	604	32	438
Stewart, William H., Brooklyn, N. Y. Roofing	332,570	Dec. 15	1932	505	33	1355
Stewart, William H., assignor to C. J. Burger, Boonville, Mo. Check-row attachment for corn-planters	330,523	Nov. 17	1477	395	33	609
Stewart, William J., Belleville, Ill. Sewing-machine	323,968	Aug. 11	758	212	32	673
Stewart, William J., Belleville, Ill. Sewing-machine	330,272	Nov. 10	1133	301	33	730
Stewart, William T. (See Tucker, Argyle W., assignor.)						
Stewart, William W., Brooklyn, N. Y. Fountain-pen	314,547	Mar. 24	2040	544	30	1180
Stickney, Allison M., Watertown, Mass. Throttle-valve lever	313,896	Mar. 17	1172	306	30	1012
Stickney, George. (See Pruim, Hiram P., assignor.)						
Stieringer, Luther, and J. H. Vail, assignors of one-half to C. F. Hanington and R. N. Dyer, New York, N. Y. Wiring interlars for electric lights	317,879	May 12	1269	338	31	764
Stigera, John G., Glen Hope, assignor of one-half to S. Hegarty, Hegarty's Cross Roads, Pa. Post-driver	331,740	Dec. 1	744	188	33	1130
Stiggleman, James H., Lincolnville, Ind. School-desk	321,322	June 30	3192	851	31	1663
Stiker, Flavius P., assignor to T. Kingsford, Oswego, N. Y. Apparatus for the manufacture of starch	327,034	Sept. 29	2458	642	32	1494
Stiker, Flavius P., Buffalo, assignor to T. Kingsford, Oswego, N. Y. Manufacturing starch	327,035	Sept. 29	2459	642	32	1494
Stiker, Flavius P., assignor to T. Kingsford, Oswego, N. Y. Apparatus for separating the solid and liquid portions of starch refuse from each other	327,345	Sept. 29	2876	750	32	1567
Stiles, Albert, Jackson, Mich. Bustle	311,269	Jan. 27	1484	407	30	294
Stiles, David R., Ottawa, Kans. Regulator for steam-pumps	322,077	July 14	916	237	32	176

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Stiles, Norman C., Middletown, Conn. Power-press	329,236	Oct. 27	2332	604	33	446
Stiles & Parker Press Company. (See Fladd, Frederick C., assignor.)						
Stiles, Samuel H. (See Hungerford and Stiles.)						
Stiles, William C., San Francisco, Cal. Crushing and grinding mill	326,253	Sept. 15	1392	362	32	1285
Still, Henry, Beloit, Kans. Scuffle-hoe	318,148	May 19	1636	437	31	841
Stillman, Albert A., Syracuse, N. Y. Dental tool rack and case	313,382	Mar. 3	480	126	30	866
Stillman, Charles F., New York, N. Y. Velocipede	324,605	Aug. 18	1630	448	32	841
Stillman, Henry B., and W. F. Patterson, Boston, Mass. Planing-machine	327,346	Sept. 29	2877	751	32	1567
Stillman, Henry B., New York, N. Y., and W. F. Patterson, Boston, Mass. Machine for interchangeably planing or turning	327,963	Oct. 0	600	156	33	108
Stillman, Sanford P., Westerly, R. I. Fifth-wheel	324,065	Aug. 25	2131	592	32	942
Stillson, Daniel C., Somerville, Mass. Automatic fire-extinguisher	311,028	Jan. 20	1223	335	30	240
Stillson, Daniel C., Boston, Mass. Automatic fire-extinguishing apparatus	326,091	Sept. 22	1961	516	32	1398
Stillson, Daniel C., Somerville, Mass. Automatic fire-extinguishing apparatus	333,171	Dec. 29	2777	727	33	1320
Stillwagon, Lucien A., Greencastle, Ind. Cuff-adjuster	333,485	Dec. 20	3200	437	33	1594
Stilson, Abel G., Cobleskill, N. Y. Floor-tube	317,684	May 12	1014	263	31	715
Stilwell, Rickason, New York, N. Y. Material for filling mattresses	312,036	Feb. 10	781		30	501
Stilwell, Wellington. (See Morris, Benjamin J., assignor.)						
Stimpson, Edwin B. (See Jefferson, William E., assignor.)						
Stimpson, Edwin B., Brooklyn, N. Y. Perforating-machine	313,383	Mar. 3	481	126	30	866
Stimpson, James H., Springfield, Ill. Link-fitting apparatus	318,217	May 19	1723	461	31	857
Stimpson, Lorenzo L. (See Hinds and Stimpson.)						
Stimson, David S., Concord, N. H., assignor to C. L. Van Wormer, Melrose, Mass. Dumping-car	319,038	June 9	912	241	31	1225
Stine, John, Marshalltown, assignor of one-half to J. A. Sieg, Marshall County, Iowa. Chimney	328,152	Oct. 13	639	218	33	159
Stinebring, George W., assignor of one-half to J. C. Dalton, Columbus, Ohio. Rotary steam-engine	332,216	Dec. 8	1433	370	33	1662
Stinson, Charles K., Boston, Mass. Machine for making springs	329,094	Oct. 27	2133	552	33	409
Stinson, Charles K., Boston, assignor to L. Ladd, Needham, Mass. Clothes-wringer	327,616	Oct. 6	152	38	33	28
Stirling, Allan, New York, N. Y. Hydraulic elevator for buildings	315,970	Apr. 14	1322	358	31	256
Stitzel, Fredrick, assignor of two-thirds to A. Reutlinger and M. Schwartz, Louisville, Ky. Compressor for ice-machines	323,749	Aug. 4	476	135	32	612
Stitzel, Fredrick, assignor of two-thirds to A. Reutlinger and M. Schwartz, Louisville, Ky. Stuffing-box	323,750	Aug. 4	478	136	32	613
Stitzel, Fredrick, and C. Weinedel, Louisville, Ky. Telegraphic relay	315,568	Apr. 14	831	219	31	155
Stivason, Kennedy H., Kittanning, Pa. Pipe-line for carrying gas	317,680	May 12	1271	339	31	764
Stivers, Charles E. (See King and Stivers.)						
St. John, Garland B., Kalamazoo, Mich. Landside for plows. (Reissue)	10,641	Aug. 25	2483	692	32	1008
St. John, George B., Boston, Mass. Escapement	313,962	Mar. 17	1373	332	30	1030
St. John, George B., Boston, Mass. Stop-watch	319,145	June 2	259	68	31	1095
St. John, George B., Boston, Mass. Indicating device for sensitive instruments	329,237	Oct. 27	2314	604	33	446
St. John, Henry, Hartford, Conn. Safety-pin	313,691	Mar. 10	880	229	30	951
St. John, Thomas C., Willoughby, Ohio, assignor to New York Steam Company, of New York. Steam-oven	326,170	Sept. 15	1265	325	32	1263
St. John, William P. (See Passenger, John S., assignor.)						
St. John, William W., New York, N. Y. Platen-packing	325,022	Aug. 25	2909	006	32	955
St. Lawrence, Henry, Northampton, Mass. Forging-machine	333,486	Dec. 20	3201	637	33	1594
St. Louis Shovel Company. (See Holton, Edward K., assignor.)						
St. Mieleczek, Wladislaw, assignor of one-half to F. Molinsk, Grand Rapids, Mich. Ventilator for stove-pipes	321,394	June 30	3289	879	31	1682
Stobacns, John B., Newark, N. J. Gas-compressor	321,751	Aug. 4	480	136	32	613
Stock, Charles F., Peoria, Ill. Apparatus for the manufacture of flying targets	313,119	Mar. 3	106	26	30	796
Stock, Charles F., Peoria, Ill. Flying target	313,120	Mar. 3	107	27	30	796
Stock, Charles F., deceased; N. G. Moore, administrator, and assignor to E. H. Walker, Peoria, Ill. Flying target	314,745	Mar. 31	2300	611	30	1255
Stock, Charles F., deceased; N. G. Moore administrator and assignor, by means assignments, to Peoria Target Company, Peoria, Ill. Trap for throwing targets	322,020	July 14	842	219	32	161
Stock, Charles F., deceased; N. G. Moore administrator and assignor to E. H. Walker, Peoria, Ill. Apparatus for the manufacture of flying targets	323,806	Aug. 4	663	187	32	648
Stock, Charles F., deceased; N. G. Moore administrator and assignor to E. H. Walker, Peoria, Ill. Flying target	323,897	Aug. 4	664	187	32	648
Stöckel, Herrmann, Auerbach, Germany. Embroidering-machine	328,846	Dec. 22	2309	608	33	1431
Stockton, Joseph A., Goshen, N. Y. Refrigerator	323,463	Aug. 4	103	30	32	541
Stockham, Alice B. (See Wetherell, James M., assignor.)						
Stocking, Daniel, Fort Atkinson, assignor of one-half to D. Starin, Whitewater, Wis. Rowing-gear for boats	319,935	June 9	1318	348	31	1297
Stocking, Ransler V., Morrison, Ill. Weed-puller	322,109	Dec. 8	1372	355	33	1250
Stockman, Henry, Philadelphia, Pa. Last	320,784	Nov. 3	422	122	33	506
Stockman, Henry, Philadelphia, Pa. Last	329,785	Nov. 3	483	122	33	507
Stockmann, Christopher, Brooklyn, N. Y. Stylographic pen	330,636	Nov. 17	1610	431	33	828
Stocks, John G., San Francisco, Cal. Two-wheeled vehicle	310,621	Jan. 13	590	163	30	119
Stockton Combined Harvester and Agricultural Works. (See Powell, Thomas, assignor.)						
Stockton, Robert N., Philadelphia, Pa. Fishing-gig	326,803	Sept. 22	2142	557	32	1430
Stockton, William W., and G. Phelps, San José, Cal. Draft yoke or bar for double teams	332,366	Dec. 15	1646	431	33	1306
Stockwell, Emory, assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Time-lock	312,925	Feb. 24	1987	542	30	740
Stockwell, George E., Marblehead, Mass. Leather-skiving machine	310,742	Jan. 13	746	203	30	148
Stockwell, Levi W., assignor to Cleveland Electric Motor Company, Cleveland, Ohio. Switch for electric motor and other circuits	326,603	Sept. 22	1840	483	32	1376
Stoddard & Co., J. W. (See Stoddard, E. Fowler, assignor.)						
Stoddard, Charles V. (See Bradley, Benjamin H., assignor.)						
Stoddard, E. Fowler, Dayton, Ohio. Wheel harrow	312,772	Feb. 24	1782	493	30	705
Stoddard, E. Fowler, Dayton, Ohio. Combined horse rake and tedder	322,136	July 14	996	250	32	190
Stoddard, E. Fowler, assignor to J. W. Stoddard & Co., Dayton, Ohio. Horse hay-rake	314,021	Mar. 31	2177	580	30	1225
Stoddard, E. Fowler, assignor to J. W. Stoddard & Co., Dayton, Ohio. Horse hay-rake	314,022	Mar. 31	2140	570	30	1225
Stoddard, E. Fowler, assignor to J. W. Stoddard & Co., Dayton, Ohio. Horse hay-rake	314,023	Mar. 31	2142	570	30	1226
Stoddard, E. Fowler, assignor to J. W. Stoddard & Co., Dayton, Ohio. Horse hay-rake	314,024	Mar. 31	2145	571	30	1226
Stoddard Manufacturing Company. (See Green, Albert J., assignor.)						
Stoddard, Marvin O., Poultney, Vt. Milk-setting apparatus	315,443	Apr. 7	639	165	31	114

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Stoddard, Oren, Buati, N. Y. Windmill.....	320,190	June 16	1666	443	31	1367
Stoddard, Oscar, Detroit, Mich. Calipers and dividers.....	314,025	Mar. 31	2148	571	30	1927
Stoddard, Samuel G., assignor to Bridgeport Brass Company, Bridgeport, Conn. Lamp-burner.....	321,395	June 30	3290	879	31	1682
Stoddard, Sylvester S., and O. Terwilliger, Detroit, Mich. Roller coasting device.....	314,626	Mar. 31	2140	571	30	1327
Stoetzel, Christopher and F. C., Newark, N. J. Hame and clip for harness.....	320,600	June 23	2267	599	31	1484
Stoetzel, Frank C. (See Stoetzel, Christopher and F. C.)						
Stokes, Charles F., et al. (See McGlinchey, Charles E., assignor.)						
Stokes, Robert L., assignor of one-half to C. Joseph, Jeffersonville, Ind. Lamp-bracket.....	319,146	June 2	261	69	31	1095
Stoler, Abraham, Philadelphia, Pa. Sash-fastener.....	332,170	Dec. 8	1372	355	33	1251
Stoler, David M., et al. (See McMurtrie, James E., assignor.)						
Stoler, Samuel B., et al. (See McMurtrie, James E., assignor.)						
Stoll, Jacob, assignor of one-half to G. Raddatz, Milwaukee, Wis. Wheelbarrow.....	324,606	Aug. 18	1631	448	32	841
Stoll, Jacob, assignor of one-third to G. Raddatz, Milwaukee, Wis. Plow.....	324,607	Aug. 18	1632	449	32	842
Stollstorff, August, Chicago Ill. Branding iron.....	332,300	Dec. 15	1547	405	33	1268
Stollwerck, Gebr. (See Bergmann, Theodor, assignor.)						
Stollwerck, Gebr. (See Stollwerck, Heinrich, assignor.)						
Stollwerck, Heinrich, assignor to Gebr. Stollwerck, Cologne-on-the-Rhine, Prussia, Germany. Purifying feed-water in steam-boilers.....	313,838	Mar. 10	1066	282 283	30	987
Stollwerck, Heinrich, assignor to Gebr. Stollwerck, Cologne-on-the-Rhine, Prussia, Germany. Apparatus for hulling, assorting, and cleansing cocoa-beans.....	320,890	June 23	2632	686 697	31	1553
Stollwerck, Heinrich, assignor to Gebr. Stollwerck, Cologne-on-the-Rhine, Prussia, Germany. Grain-drier.....	324,182	Aug. 11	1051	287	32	726
Stolterfoht, Max, Berlin, Germany. Clutch.....	321,656	July 7	327	87	32	62
Stolz, Christian. (See Lee, James, Jr., assignor.)						
Stoltz, David, San Francisco, Cal. Hair-dye.....	313,121	Mar. 3	108		30	797
Stompe, Joseph. (See Boynton, Alonzo R., assignor.)						
Stone, Cassius, Walnut Creek, Cal. Apparatus for working derrick-forks.....	328,530	Oct. 20	1333	346	33	258
Stone, Charles M., Belton, Tex. Baling-press.....	313,551	Mar. 10	701	183 184	30	917
Stone, Charles M., Belton, Tex. Ribbon and braid holder.....	322,209	July 14	1088	282	32	207
Stone, Dudley G. (See Lovelace, Walter A., assignor.)						
Stone, Edward H., assignor of one-half to R. S. Hannah, West Bay City, Mich. Shaking-grate.....	323,969	Aug. 11	760	212	32	673
Stone, Edward J. (See Austin and Stone.)						
Stone, Elijah. (See Stone, Lovi, assignor.)						
Stone, Frank, assignor to Munroe Organ Reed Company, Worcester, Mass. Reed-board.....	315,449	Apr. 7	641	166	31	114
Stone, Frank, assignor to Munroe Organ Reed Company, Worcester, Mass. Organ-action.....	326,171	Sept. 15	1206	326	32	1263
Stone, Frank, assignor to Munroe Organ Reed Company, Worcester, Mass. Mechanical musical instrument.....	326,172	Sept. 15	1208	326 327	32	1263
Stone, Frank G., New York, N. Y., and W. R. Walton, assignors to Ansonia Brass and Copper Company, Ansonia, Conn. Testing metallic tubes.....	324,495	Aug. 18	1484	406	32	813
Stone, George A., Richmond, Mo. Cornstalk-cutter.....	321,919	July 7	698	182	32	127
Stone, George F., Medfield, Mass. Motor for sewing and other machines.....	331,260	Nov. 24	2456	663	33	991
Stone, George W. (See Hemelright and Stone.)						
Stone, Henrie D. (See Wade and Stone.)						
Stone, Henrie D., Boston, Mass., assignor to Adams Manufacturing Company, Portland, Me. Heeling-machine.....	315,675	Apr. 14	968	253	31	181
Stone, Henrie D., Boston, and A. C. Ambler, Natick, Mass., assignors to Adams Manufacturing Company, Portland, Me. Heeling-machine.....	315,971	Apr. 14	1363	358	31	256
Stone, Irving L., Battle Creek, Mich. Opera-chair.....	325,283	Sept. 1	72	22	32	1029
Stone, John H., Hamilton, Ontario, Canada. Tubular lantern.....	324,183	Aug. 11	1054	282	32	726
Stone, John H., Hamilton, Ontario, Canada. Bench-oller.....	333,487	Dec. 29	3202	837	33	1505
Stone, Levi, St. Mary's, Ohio, assignor of one-half to E. Stone, Chicago, Ill. Meat-tenderer.....	311,451	Jan. 27	1737	473	30	340
Stone, Oren, et al. (See Skinner, John, assignor.)						
Stone, Pardon B., Waverly, Pa. Tongue-support.....	325,187	Aug. 25	2422	665	32	905
Stone, Reuben R., New York, N. Y. Milk-refrigerator.....	330,751	Nov. 17	1766	476	33	852
Stone, Roy, New York, N. Y. Hydraulic excavating-machine.....	316,497	Apr. 28	2099	551 552	31	398
Stone, Thomas W., Columbus, Ohio. Butcher's steel.....	317,591	May 12	893	229	31	693
Stone, William G., Ellsville, Ill. Gate.....	326,173	Sept. 15	1271	327	32	1264
Stone, William H., assignor of one-half to E. Dunning, Bethel, Ohio. Fender for plows.....	311,857	Feb. 3	512	139	30	445
Stone, William R., and A. W. Pratt, Salem, Mass. Machine for treating hides.....	318,020	May 26	2538	677	31	1012
Stonebraker, Jeremiah, Darneville, Ohio. Fruit-gatherer.....	329,065	Oct. 27	2135	552	33	309
Stonemetz, John H., Erie, Pa. Trimming device for paper-folding machines.....	320,891	June 23	2635	607	31	1554
Stonemetz, John H., Erie, Pa. Pasting attachment for paper-folding machines.....	325,023	Aug. 25	2210	606	32	956
Stonesifer, Christian E., Boonsboro, Md. Tooth-securing device for agricultural machines.....	322,567	July 21	1569	414	32	300
Stoney Landing Company. (See Walker, C. Irvine, assignor.)						
Stoney Landing Company. (See Walker and Jervey, assignors.)						
Stopper, Michael, Cincinnati, Ohio. Apparatus for sinking wells.....	329,968	Nov. 10	741	189	33	650
Storck, Henry W. (See Woodbury and Storck.)						
Storer, John, Marlborough, N. Y. Furnace-grate.....	324,966	Aug. 25	2132	583	32	942
St. Ores, Lewis, Guadalupe, Cal. Two-wheeled vehicle.....	327,036	Sept. 29	2461	643	32	1494
Stormer, Jerome, Moline, Ohio. Hay-rack.....	314,746	Mar. 31	2301	611	30	1255
Storrs, Fred C., Hudson, Ind. Drag-saw.....	327,736	Oct. 6	307	79	33	54
Storrs, Royal O., et al. (See Pottle, George F., assignor.)						
Story, Albert G. (See Candee, Charles E., assignor.)						
Stosch, Ernst, Stettin, Germany, assignor to H. Hartt, Chicago, Ill. Paper-matrix drier.....	324,496	Aug. 18	1485	407	32	813
Stossmelster, Albert W., Newport, Ky. Wrench.....	328,980	Oct. 27	1968	511	33	380
Stott, Samuel S., and R. Birtwistle, Haslingden, county of Lancaster, England. Machine for making elevator-buckets.....	318,582	May 26	2225	594	31	956
Stouffer, Hiram C., Cortland, Ohio, assignor to C. C. Trout, Sharon, Pa. Combined lock, latch, and hasp.....	312,926	Feb. 24	1990	543	30	740
Stouffer, Luther, St. Joseph, Mo. Side-bar vehicle.....	326,692	Sept. 22	1963	516	32	1399
Stough, S. C., et al. (See Quinn, Isaac T., assignor.)						
Stout, A. L., et al. (See Bennett, Thomas H., assignor.)						
Stout, David, St. Louis, Mo. Aerial ship.....	319,936	June 9	1319	348	31	1297
Stout, David, Logan City, Ariz. Ter. Grip for cable railways.....	330,807	Nov. 17	1835	494	33	871
Stout, George M., assignor of one-half to W. H. Poley, Philadelphia, Pa. Alarm time-recorder for railways, &c.....	332,020	Dec. 8	1140	298	33	1211
Stout, Herbert, et al. (See Brewer and Heesen, assignors.)						
Stout, Herbert, et al. (See Heesen, Hendrick, assignor.)						
Stout, James A., assignor to Harrison Machine Works, Belleville, Ill. Valve-gear.....	310,743	Jan. 13	747	203	30	149

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Stout, Mills & Temple. (See Galloway, James W., assignor.)						
Stout, Nathan. (See Mertz and Lorton, assignors.)						
Stovall, Washington L., Winona, Miss. Gate-latch	325,577	Sept. 1	492	190	32	1107
Stoveken, Matthias, Jersey City, N. J. Purse	330,806	Nov. 17	1636	495	33	871
Stover, Atkins, Brooklyn, N. Y. Metal-shearing machine	329,086	Oct. 27	2136	552	33	409
Stover, Atkins, Brooklyn, N. Y. Water-faucet	330,524	Nov. 17	1450	398	33	802
Stover, Daniel C., Freeport, Ill. Wire-barbing machine	318,821	May 26	2539	677	31	1012
Stover, Daniel C., Freeport, Ill. Wire-barbing machine	318,822	May 26	2541	677	31	1013
Stover, Daniel C., Freeport, Ill. Barbed-wire spool	319,147	June 2	262	68	31	1065
Stover, Daniel C., Freeport, Ill. Windmill	325,707	Sept. 8	661	166	32	1143
Stover, Daniel C., Freeport, Ill. Barbed-wire spool	327,347	Sept. 29	2880	752	32	1567
Stover, Daniel C., Freeport, Ill. Vehicle-hub	330,809	Nov. 17	1836	495	33	872
Stover, Evan T., assignor to J. Stover and G. W. Roberts, Chicago, Ill. Face-protector	331,339	Dec. 1	115	27	33	1019
Stover, Evan T., assignor to J. Stover and G. W. Roberts, Chicago, Ill. Face-protector	331,340	Dec. 1	115	27	33	1019
Stover, George H., South Bend, Ind. Bee-hive	330,353	Nov. 10	1244	332	33	751
Stover, George W., Laurelton, assignor of one-half to J. Lilley, Sr., Lewisburg, Pa. Shut-ter-worker	321,396	June 30	3291	879	31	1632
Stover, Henry, et al. (See Franklin, James C., assignor.)						
Stover, Isaac L., Centralia, Ill. Car-coupling	318,052	May 19	1515	406	31	817
Stover, Joseph, et al. (See Stover, Evan T., assignor.)						
Stover Manufacturing Company. (See Ziegler, Oscar J., assignor.)						
Stow, Harry, Iola, Kans. End-gate for wagons	316,307	Apr. 21	1825	480	31	344
Stowe, Aaron F., Worcester, Mass. Racing machine for cutting leather	328,078	Oct. 13	745	194	33	141
Stowe, Anson C., Paola, Kans. Tool-handle	327,969	Oct. 6	603	157	33	108
Stowe, Benjamin L., Brooklyn, assignor to J. V. Reed, New York, N. Y. Belting	321,153	June 30	2987	791	31	1624
Stowe, Benjamin L., Brooklyn, assignor to J. V. Reed, New York, N. Y. Belting	321,154	June 30	2988	792	31	1624
Stowe, George W., New Haven, Conn. Thill-coupling	317,685	May 12	1014	263	31	715
Stowe, James G., assignor of one-half to J. W. Parker, Cincinnati, Ohio. Corn harvesting and husking machine	331,459	Dec. 1	292	79, 80	33	1050
Stowell, Frank L., New York, N. Y. Knife-eraser	322,921	July 28	2154	571	32	415
Stowell, John W., Putney, Vt. Folding table	313,632	Mar. 10	806	211	30	936
Stowell, Nellie S., New York, N. Y. Sharpening tool	317,424	May 5	672	170	31	645
Strait, Earnest A., Jersey City, N. J. Water-closet valve	326,528	Sept. 15	1735	453	32	1351
Strack, Edward W. (See Turner and Strack.)						
Strader, Levi T. (See Gray, Henry F., assignor.)						
Straight, John A., Hartford, Conn. Low-water alarm	322,021	July 14	843	220	32	161
Strain, Ebenezer W., Allegheny, assignor to himself, and R. P. Crawford, Lower Burrell township, Westmoreland county, Pa. Refining, reducing, and separating hydrocarbon oils	311,543	Feb. 3	116	34	30	371
Straith, Celestia L. (See Straith, William, assignor.)						
Straith, Hiram, Troy, N. Y. Corkscrew	317,038	May 5	138	35	31	547
Straith, Hiram, Troy, N. Y. Cuspidor	317,039	May 5	140	36	31	548
Straith, Hiram, Troy, N. Y. Potato-digger	328,079	Oct. 13	748	195	33	142
Straith, William, Elmira, N. Y., assignor to C. L. Straith. Hillside-plow	313,122	Mar. 3	109	97	30	797
Straith, William, assignor to C. L. Straith, Elmira, N. Y. Sulky-plow	322,301	Dec. 15	1548	405	33	1289
Straith, William, assignor to C. L. Straith, Elmira, N. Y. Plow	322,302	Dec. 15	1549	406	33	1289
Straker, Ernest, London, England. Machine for removing superfluous gold-leaf from book-covers	329,863	Nov. 3	599	152	33	615
Stranahan, Henry B., Cleveland, Ohio. Key-fastener	330,854	Nov. 17	1896	513	33	822
Strand, Charles, and J. Gilburg, Fowler, Ind. Cartridge-loading machine	321,257	June 30	3113	828	31	1647
Stranders, Walter, New York, N. Y., assignor to P. G. Thomson, Cincinnati, Ohio. Building toy	311,793	Feb. 3	431	116	30	429
Stranders, Walter, New York, N. Y., assignor to P. G. Thomson, Cincinnati, Ohio. Spelling toy or puzzle	318,823	May 26	2543	677	31	1013
Strange, Edward M., Brooklyn, N. Y. Aero-steam engine	328,865	Oct. 20	1776	463	33	339
Strasmer, William F. (See Phillips, Thomas S., assignor.)						
Straaser, David. (See Gerdum, Andrew H., assignor.)						
Straaser, David, and A. H. Gerdum, Albany, N. Y. Bottom bar for window-shades	328,905	Oct. 20	1834	479	33	350
Strathy, Matilda F., London, Ontario, Canada. Carpet-fastener	312,402	Feb. 17	1283	357	30	604
Stratton, E. Platt, College Point, assignor to Stratton Separator Company, New York, N. Y. Steam-separator	323,891	Aug. 4	655	185	32	646
Stratton Separator Company. (See Pratt, Nathaniel W., assignor.)						
Stratton Separator Company. (See Stratton, E. Platt, assignor.)						
Stratton, William D., Boston, Mass. Buckle	323,024	July 28	2286	605	32	439
Stratton, William H., assignor to S. R. Smith, New Haven, Conn. Fire-extinguisher	316,581	Apr. 28	2200	579	31	418
Straub, Albert, Gowanda, N. Y. Vehicle-spring	319,343	June 2	498	135	31	1143
Straub, Ambrose W., Philadelphia, Pa. Grinding-mill	322,400	July 14	1329	346	32	252
Straubel, Conrad, and P. Hebel, Coehetion, N. Y. Adjustable back for vehicle-seats	322,303	Dec. 15	1551	405	33	1289
Straus, Jacob, St. Louis, Mo. Sweat-pad for horse-collars	313,963	Mar. 17	1274	332	30	1030
Straus, Jacob, St. Louis, Mo. Sweat-pad hook	321,155	June 30	2990	793	31	1624
Straus, Max, Baltimore, Md. Furniture-leg shoe	319,342	June 2	497	134	31	1142
Strauss, Abram. (See Hagenbacher and Strauss.)						
Strauss, Alfred A. (See Warren, Albert G., assignor.)						
Strauss, Henry S., New York, N. Y. Corset	324,497	Aug. 18	1486	407	32	814
Strauss, Richard, Schweidnitz, Prussia, Germany. Safety apparatus for the preservation of the dead until their burial	315,569	Apr. 14	833	219	31	155
Straut, Hooper B., Colbertson, Nebr. Calf-weaner	317,881	May 12	1272	339	31	765
Straw, George, assignor of two-thirds to S. W. Harvey and J. Gregg, Constantine, Mich. Shifting-rail for vehicles	310,474	Jan. 6	393	109	30	76
Straw, George H. (See Baker and Straw.)						
Straw, Herman F., Manchester, N. H. Preparing colored yarn for filling	313,123	Mar. 3	109	30	797	
Straw, Herman F., Manchester, N. H. Mechanism for winding yarns upon shuttle bobbins or quills	313,124	Mar. 3	111	27	30	797
Straw, Herman F., Manchester, N. H. Adjustable reed for warping-machines	322,401	July 14	1331	346	32	253
Straw, Herman F., and J. D. Butler, Manchester, N. H. Warping and beaming machine	325,224	Sept. 1	74	22	32	1030
Stream, Edgar L., New Orleans, La. Locomotive	314,747	Mar. 31	2302	611	30	1256
Streator, Harry E. (See Haskell, John T., assignor.)						
Streator, Henry D., Galesburg, Mich. Feeding-rack	329,500	Nov. 3	101	27	33	524

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Streator, Henry D., Galesburg, Mich. Refrigerator-safe for bread, cake, &c	332,367	Dec. 15	1647	431	33	1306
Street Car Money Drawer Company. (See Harrison, William H., assignor.)						
Street, Eugene A., and R. W. Fleming, Kansas City, Mo. Underground conduit for electrical conductors	331,918	Dec. 8	995	258	33	1184
Streeter, Herbert A. (See Amet, Edward H., assignor.)						
Streeter, Herbert A., Chicago, Ill. Sash-bar	316,562	Apr. 28	2202	579 580	31	418
Streeter, James L. (See Jenkins and Streeter.) (Reissue.)						
Streett, James R., assignor of one-half to J. H. L. Eager, Washington, D. C. Rifling-machine for heavy guns						
Streit, Charles, Cincinnati, Ohio. Sofa-bed	318,824	May 26	2543	678	31	1013
Streit, Charles, Cincinnati, Ohio. Sofa-bed	312,927	Feb. 24	1991	544	30	740
Streit, Charles, Cincinnati, Ohio. Sofa-bed	330,855	Nov. 17	1897	513	33	882
Streit, Charles, Cincinnati, Ohio. Cradle	332,564	Dec. 15	1920	502	33	1353
Streitz, Emil, Freienwalde, Prussia, Germany. Centrifugal bolting-machine	329,097	Oct. 27	2137	553	33	409
Stretch, Robert, Tecumseh, Mich. Switch-stand	315,570	Apr. 14	835	230	31	155
Strickland, Ansel, Cumming, Ga. Cash-carrier	318,330	May 19	1864	500	31	883
Strickland, Morgan D., assignor of one-half to C. D. Carroll, St. Louis, Mo. Injector	333,086	Dec. 22	2653	695	33	1492
Strickland, Thomas E., New York, N. Y. Glass ornamentation for imitation of fine polished stone	327,348	Sept. 29	2881	752	32	1568
Strickland, Palmer C. (See Wright, Christopher C., assignor.)						
Stride, Hugh, Mahanoy City, Pa. Miner's squib-carrier	328,358	Oct. 13	1103	226	33	209
Striker, George H., Buffalo, N. Y. Spectacle-case	326,065	Sept. 8	1126	226	32	1230
Stringer, George. (See Birdsall and Stringer.)						
Stringer, George, assignor to E. M. Birdsall, Auburn, N. Y. Traction-engine	319,344	June 2	499	135 136	31	1143
Stringham, Charles W., Brooklyn, N. Y. Car-brake	310,905	Jan. 20	1047	284	30	206
Stripe, Horace G., Omaha, Nebr. Indicator-lock	318,218	May 19	1725	461	31	858
Strobel, Charles, Philadelphia, Pa. Anchor shuttle-box motion for looms	331,741	Dec. 1	745	189	33	1130
Strobel, Charles L., Pittsburg, Pa. Manufacture of eye-bars and similar articles	329,501	Nov. 3	102	27	33	525
Strobel, Frederick, Marion, Ohio. Cylinder for clover-hullers	316,308	Apr. 21	1896	480	31	344
Strobel, Frederick, Marion, Ohio. Concave for clover-hullers	318,825	May 26	2543	678	31	1013
Strobel, Victor O., Allegheny, Pa. Valve	327,117	Sept. 29	2572	671	32	1513
Strobel, Victor O., assignor to Gordon, Strobel & Laureau, Philadelphia, Pa. Blast-furnace	336,804	Sept. 22	2142	558	32	1430
Strobridge, Charles M. (See Young, Walter F., assignor.)						
Strobridge, Charles M., and W. Honghton, Merrill, Wis. Machine for sawing spouts	323,229	July 28	2483	680	32	475
Strobridge, Frank L., deceased, (T. Strobridge administrator,) New Brighton, Pa. Straw-cutting	326,923	Sept. 22	2311	605	32	1460
Strobridge, Turner, administrator. (See Strobridge, Frank L.)						
Stroder, Martin, Chicago, Ill. Lubricator	329,502	Nov. 3	104	27	33	525
Strohacker, Frederick. (See Koegel and Strohacker.)						
Strom, Axel A., Austin, Ill. Railway-frog	329,098	Oct. 27	2139	553	33	409
Strom, Axel A., Chicago, Ill. Ratchet-drill	331,341	Dec. 1	116	27, 28	33	1019
Strom, Axel A., Austin, Ill. Lifting-jack	331,919	Dec. 8	997	258	33	1185
Strom, Axel A., Austin, Ill. Chair for railway-tracks	332,760	Dec. 22	2205	581	33	1411
Strong, Albert E., Paterson, N. J. Automatic frogless switch	321,920	July 7	699	182	32	137
Strong, David A., et al. (See Strong, Henry C., assignor.)						
Strong, Edward B., Detroit, Mich. Car-axle box	320,412	June 16	2016	529	31	1429
Strong, Edwin J., Berea, Ohio, Dak. Ter. Spring-brace for vehicles	317,040	May 5	142	36	31	548
Strong, Eli, Kalamazoo, Mich. Pressure-indicator for roller-mills	311,927	Feb. 10	625	173	30	473
Strong, Francis A., Colebrook, Wis. Drag-saw	314,152	Mar. 17	1513	396	30	1074
Strong, Francis A., Colebrook, Wis. Lubricator	330,525	Nov. 17	1440	396	33	802
Strong, Frederick S., assignor to Carver Cotton Gin Company, East Bridgewater, Mass. Saw-cylinder for cotton-seed linters and gins	314,748	Mar. 31	2203	611 612	30	1256
Strong, Frederick S., assignor to Carver Cotton Gin Company, East Bridgewater, Mass. Sand-paper roll	325,708	Sept. 8	667	167	32	1145
Strong, Frederick S., assignor to Carver Cotton Gin Company, East Bridgewater, Mass. Wedge-driving machine	325,709	Sept. 8	668	167	32	1145
Strong, George S., Philadelphia, Pa. Locomotive-brake	315,973	Apr. 14	1387	359	31	257
Strong, George S., Philadelphia, Pa. Steam-boiler	315,971	Apr. 14	1388	359 360	31	257
Strong, George S., Philadelphia, Pa. Cylinder and valve for engines	320,893	June 23	2637	698 699	31	1554
Strong, George S., Philadelphia, Pa. Cylinder for steam-engines	320,894	June 23	2638	699 700	31	1554
Strong, George S., Philadelphia, Pa. Valve-motion	320,895	June 23	2639	700	31	1554
Strong, George S., Philadelphia, Pa. Machine for corrugating plates or tubes	324,608	Aug. 18	1633	449 450	32	842
Strong, George S., Philadelphia, Pa. Welding-machine	324,609	Aug. 18	1635	450 451	32	842
Strong, George S., Philadelphia, Pa. Machine for welding tubes	324,610	Aug. 18	1638	451 452	32	843
Strong, George S., assignor to J. T. Morris, trustee, Philadelphia, Pa. Valve-gear	315,972	Apr. 14	1386	359	31	257
Strong, George S., assignor to J. T. Morris, trustee, Philadelphia, Pa. Valve-operating mechanism	320,892	June 23	2636	698	31	1554
Strong, George S., Philadelphia, and A. Mitchell, Wilkes-Barre, Pa. Car-truck	312,928	Feb. 24	1992	544 545	30	740
Strong, Henry C., assignor of eleven-fifteenths to D. A. Strong and H. P. Caldwell, Chicago, Ill. Combined telegraphic relay and telephone	312,670	Feb. 24	1654	456	30	681
Strong, James F. (See Haines and Strong.)						
Strong, Joel, College Hill, Ohio. Trace-holder	311,686	Feb. 3	298	81	30	405
Strong, John W., Bridgeport, Conn. Die-stock	321,404	Aug. 4	105	30	32	541
Strong, Joseph J., St. Paul, Minn. Hotel-car	313,454	Mar. 3	581	149	30	885
Strong, Maurice H., Cincinnati, Ohio. Chicken-brooder	331,096	Nov. 24	2307	598	33	948
Strong, Maurice H., Cincinnati, Ohio. Poultry water-can	331,097	Nov. 24	2309	598	33	949
Strong, Pitt W., Brockville, Ontario, Canada. Magazine fire-arm	325,774	Sept. 8	755	189	32	1161
Strong, Sutton, Harmony, Ind. Transom-operator	312,224	Feb. 10	1044	226	30	549
Strong, Walter E. (See Piper, Edwin S., assignor.)						
Strong, William, assignor of one-half to C. Aneshansel, Jr., Indianapolis, Ind. Cistern and flushing apparatus for water-closets	322,078	July 14	917	238	32	175
Strong, William, assignor of one-half to C. Aneshansel, Jr., Indianapolis, Ind. Hose-coupling for street-washers	326,604	Sept. 22	1842	483	32	1377
Strong, William, assignor of one-half to C. Aneshansel, Indianapolis, Ind. Pipe or hose coupling	327,737	Oct. 6	309	79	33	54
Strong, William C., Readfield, Me. Gas-machine	311,858	Feb. 3	513	139	30	445

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Strong, William C., Kent's Hill, Me. Adjustment for solar cameras	315,450	Apr. 7	642	166	31	114
Strößenreuther, Karl, Nuremberg, Bavaria, Germany. Pencil-holder	330,526	Nov. 17	1482	396	33	803
Strott, Adam, New Brunswick, N. J. Grain-winner	312,929	Feb. 24	1993	545	30	741
Stroud, David L., Richford, Minn. Grain-cleaner for thrashing-machines	326,805	Sept. 22	2144	558	32	1430
Strouse, Edward, New Haven, Conn. Hoop-skirt	311,859	Feb. 3	515	139	30	445
Strouse, Isaac, New Haven, Conn. Combined corset and shoulder-brace	317,473	May 5	740	187	31	657
Strouse, Isaac, New Haven, Conn. Shoulder-brace	317,474	May 5	741	188	31	657
Strouse, William, <i>et al.</i> (See Ginter, William P. assignor.)						
Strout, George A., Lisbon, Dak. Ter. Bundle-carrier for harvester-binders	325,710	Sept. 8	669	167 168	32	1145
Strowbridge, Clarence S., Cortland, N. Y. Positive shuttle-motion for looms	332,217	Dec. 8	1435	370	33	1262
Struebig, Charles H., Milwaukee, Wis. Mat for seed-presses	321,258	June 30	3116	829	31	1647
Strunk, Daniel, Minneapolis, Minn. Grain-binder	322,218	Dec. 8	1436	371 372	33	1262
Strunk, Daniel, assignor of two-thirds to Minneapolis Harvester Works, Minneapolis, Minn. Grain-binder	318,321	May 19	1865	500 501	31	883
Stryker, James M., Jr., Chicago, Ill. Combined wash-stand and bureau	323,970	Aug. 11	762	213	32	674
Stryker, John C. (See Murray and Stryker.)						
Strype, William G., Wicklow, Ireland. Preparing dried blood	318,826	May 26	2546		31	1014
Strype, William G., Wicklow, Ireland. Making hydrates of barium and of strontium	326,066	Sept. 8	1127	227	32	1230
Stuart, Carl W., assignor to F. W. Devoe & Co., New York, N. Y. Compass attachment for pencils	322,865	July 21	1964	520	32	373
Stuart, Chester J. (See Marsh, Robert R. assignor.)						
Stuart, John A., Austin, and J. F. Woodmansee, Flushing, Tex. Cuff button and holder	324,184	Aug. 11	1055	289	32	736
Stuart, John E., Newark, N. Y. Window-screen frame	328,080	Oct. 13	752	196	33	142
Stuart, Robert J., assignor to Sedgwick Manufacturing Company, Poughkeepsie, N. Y. Paper-feeding machine	319,431	June 2	613	166 167	31	1165
Stuart, Robert J., assignor to Sedgwick Manufacturing Company, Poughkeepsie, N. Y. Paper-feeding machine	327,617	Oct. 6	154	37, 38	33	28
Stuart, Sinclair, Plainfield, N. J. Removing oil from exhaust-steam	316,673	Apr. 22	2319	809	31	440
Stuart, Sinclair, Plainfield, N. J. Shaft-coupling	316,919	Apr. 22	2696	702	31	509
Stubbe, John, Pittsburg, Pa., assignor to H. B. Seutt & Co., (limited.) Device for converting motion	312,773	Feb. 24	1791	494 558 559 560	30	706
Stubbe, John, Pittsburg, assignor to T. B. Kerr, Allegheny City, Pa. Barb-wire machine	326,806	Sept. 22	2144	558 559 560	32	1431
Stubbe, John, assignor to Pittsburg Steel Fencing Company, Pittsburg, Pa. Machine for applying barbs to fence-wire	328,621	Oct. 20	1470	382 383 384	33	282
Stubbe, John, assignor to Pittsburgh Steel Fencing Company, Pittsburg, Pa. Wire-barb-machine	333,067	Dec. 22	2654	696 697	33	1492
Stubbers, Joseph, Cincinnati, Ohio. Automatic gas-machine	328,359	Oct. 13	1104	226	33	209
Stubblefield, Nathan B., Murray, Ky. Lighting device	329,964	Nov. 3	594	152	33	616
Stuber, Jacob. (See Stuber, Johann and J.)						
Stuber, Johann J., Syracuse, N. Y. Refrigerating apparatus for houses	324,278	Aug. 11	1192	324	32	752
Stuck, Levi, Hart, Mich. Lowering mechanism for dentists' chairs	332,626	Dec. 15	2005	526	33	1368
Stuckert, J. Franklin, Philadelphia, Pa. Support for gutters of skylights, roofs, vaults, &c.	346,413	Apr. 21	1979	520	31	370
Stuckert, J. Franklin, Philadelphia, Pa. Metallic roofing	332,219	Dec. 8	1440	372	33	1263
Stuckert, J. Franklin, Philadelphia, Pa. Plate-roofing	332,220	Dec. 8	1441	372	33	1263
Stuckes, John, Jr., Chicago, Ill. Confection-capsule	325,711	Sept. 8	671	168	32	1146
Studley, Elbridge G., and P. Bosch, Grand Rapids, Mich. Fly-net	315,975	Apr. 14	1389	360	31	257
Stuertz, John. (See Yuuck and Stuertz.)						
Stuertz, John, Philadelphia, Pa. Gas-burner	331,361	Nov. 24	2457	663	33	991
Stumpe, John H. (See Kemper and Stumpe.)						
Sturgis, David, assignor of four-fifths to W. H., F. A., and W. H. Wilson and E. Durfee, Harrison, Mich. Car-coupling	323,752	Aug. 4	481	136	32	613
Sturgia, Samuel, Manayunk, Pa. Dumping-cart	328,981	Oct. 27	1969	511	33	387
Sturm, Wendelin, New York, N. Y. Tenement-house	332,457	Dec. 15	1761	461	33	1326
Sturtevant, Albert A., Hartford, Conn. Sewing-machine	326,067	Sept. 8	1128	287	32	1231
Sturtevant Mill Company. (See Sturtevant, Thomas L. assignor.)						
Sturtevant, Thomas L., Framingham, Mass., assignor to Sturtevant Mill Company, Portland, Me. Screen	316,920	Apr. 22	2697	702	31	509
Sturtevant, Thomas L., Framingham, Mass., assignor to Sturtevant Mill Company, Portland, Me. Attrition-mill	316,921	Apr. 22	2698	703	31	509
Sturtevant, Thomas L., Framingham, assignor to Sturtevant Mill Company, Boston, Mass. Rotary head for grinding-mills	324,047	Aug. 11	864	239	32	691
Sturtevant, Thomas L., Framingham, assignor to Sturtevant Mill Company, Boston, Mass. Wet-grinding mill	327,501	Sept. 29	3066	799	32	1600
Stutsman, Henry, East Portland, Oreg. Steam-generator	328,631	Oct. 20	1335	346	33	259
Stutz, Edward E. (See Batzloff, Frederick T., assignor.)						
Stutz, Sebastian, Pittsburg, Pa. Preventing gas-explosions	315,062	Apr. 7	130	30	31	25
Stutz, Sebastian, Pittsburg, Pa. Coal washing or separating machine	324,341	Aug. 11	1279	247	32	769
Styne, Nicholas, Brooklyn, N. Y. Faucet	313,249	Mar. 3	319	78	30	834
Styne, Nicholas, Brooklyn, N. Y. Range-boiler spud	327,738	Oct. 6	310	79	33	54
Subers, Thomas N., Philadelphia, Pa. Scaffold-clamp	331,742	Dec. 1	748	189	33	1131
Sublett, William, San Francisco, Cal. Cartridge	317,041	May 5	142	36	31	548
Suckert, Julius J., Ridgewood, N. J. Cooling and separating a lubricating agent from a compressed-gas, and liquefaction of gases and production of refrigeration	320,305	June 16	1827	485 486	31	1395
Suckert, Julius J., Ridgewood, N. J. Liquefying gases and producing refrigeration	320,306	June 16	1835	486	31	1397
Suckert, Julius J., Ridgewood, N. J. Method of and apparatus for purifying and liquefying gases and producing refrigeration	320,307	June 16	1841	486	31	1398
Suckert, Julius J., Ridgewood, N. J. Separating and cooling a sealing or lubricating liquid in apparatus for producing refrigeration	320,308	June 16	1845	487	31	1398
Suckert, Julius J., Ridgewood, N. J. Separating and cooling a sealing or lubricating liquid in producing refrigeration	320,309	June 16	1848	487	31	1398
Suckert, Julius J., Ridgewood, N. J. Method of and apparatus for separating a liquefiable gas from a condensable vapor	320,310	June 16	1851	487 488	31	1399
Suckow, Edmund, assignor of one-half to Harlwick & Ware, Buffalo, N. Y. Lifting-jack	331,460	Dec. 1	296	80	33	1051
Suell, Augustus E., assignor of two-thirds to J. B. Montague and J. T. Booker, Franklin, Ky. Wagon-axle	314,981	Mar. 31	2650	701	30	1317
Suess, Max, Chicago, Ill. Making ornamental and other designs in relief	313,029	Feb. 24	2136		30	706
Suhr, William M., New York, N. Y. Sectional non-conductive covering for tubes	312,037	Feb. 10	782	213	30	501
Suhrheinrich, Louis, Evansville, Ind. Valve-gear	318,827	May 26	2547	678	31	1014

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Suit, William T. (See Haithcock and Suit.)						
Sullenberger, Samuel A., assignor of two-thirds to T. Weaver and E. Z. Wallower, Harrisburg, Pa. Breech-loading fire-arm	330,354	Nov. 10	1244	332	33	751
Sullivan, Cornelius J., Fall River, Mass. Cloth-guide for looms	313,633	Mar. 10	807	211	30	936
Sullivan, Daniel, Sparta, Wis. Railway-switch chair	317,042	May 5	143	36	31	548
Sullivan, Haines W. (See King, Charles W., assignor.)						
Sullivan, James F., Fitchburg, Mass. Water-motor	313,030	Feb. 24	2137	581	30	766
Sullivan, James H. (See Bennett and Sullivan.)						
Sullivan, Jerry, Du Bois, Pa. Motor	319,527	June 9	756	202	31	1197
Sullivan, John D. (See Minor and Sullivan.)						
Sullivan, John J. (See Cummings, Henry H., assignor.)						
Sullivan Machine Company. (See Ball, Albert, assignor.)						
Sullivan, Samuel E. (See Colby, John N., assignor.)						
Sullivan, Samuel J., Lamar, Mo. Churn	324,277	Aug. 11	1191	324	32	752
Sullivan, T. J. (See Hampton, William R., assignor.)						
Sullivan, Thomas P., Webster Groves, and E. M. Hazard, St. Louis, Mo. Oil-expressing box	330,896	June 23	2641	701	31	1355
Sullivan, Timothy C. (See Munroe and Sullivan.)						
Sullivan, Timothy J., Bowling Green, Ky. Drier	326,924	Sept. 22	2313	605	32	1460
Sulter, Frederick, Cincinnati, Ohio. Tube-expander	328,022	Oct. 20	1475	384	33	223
Sulitzer, Joseph B., St. Louis, Mo. Scarf-shield	317,882	May 12	1273	339	31	765
Sulzer, Henry. (See Vetter, Caspar, assignor.)						
Summer, Henry H., Senola, Ga. Compound plow-beam	331,342	Dec. 1	118	28	33	1020
Summers, Daniel J., Waynesborough, Pa. Car-coupling	333,172	Dec. 20	2779	728	33	1520
Summers, Dewitt C., Summers' Mills, Tex. Device for packing cotton	332,304	Dec. 15	1552	406 407	33	1289
Summers, Henry. (See Cook and Summers.)						
Summers, John P., Tiffin, Ohio. Road-scraper	319,036	June 2	124	34	31	1071
Summers, Lewis P., Peculiar, Mo. Grain-bag filler, weigher, and register	330,856	Nov. 17	1899	513 514	33	889
Summerson, Junius R., Dublin, assignor of one-half to D. T. Martin, Pulaeki P. O., Va. Pulverizing attachment for plows	314,982	Mar. 31	2650	701	30	1317
Summerville, Thomas. (See Olmstead, David B., assignor.)						
Sumner, Dwight C. (See Tateum, Thomas E., assignor.)						
Sumner, Dwight C., Worcester, Mass. Machinery for shearing cloth	324,428	Aug. 18	1400	381 332	32	798
Sumner, James J., assignor of one-half to M. R. Capron, Providence, R. I. Spindle and bolster for spinning and twisting machines	322,654	July 31	1674	444	32	320
Sumner, William B., et al. (See Smith, John A., assignor.)						
Sumner, William P., Mooresville, Ind. Dumping-wagon	313,125	Mar. 3	114	28	30	707
Sun Electric and Illuminating Company. (See Slattery, Marmaduke M. M., assignor.)						
Sunderland, Leslie E., assignor to Joliet Enterprise Company, Joliet, Ill. Machine for making barbed-wire fences. (Reissue)	10,597	May 12	1383	371 372	31	788
Sundin, Per O., Providence, R. I. Surface-plate	326,925	Sept. 22	2314	605	32	1460
Suppes, Maximilian M. (See Hunt and Suppes.)						
Surbaugh, Joseph T., Modesto, Cal. Obstetrical supporter	324,498	Aug. 18	1487	407	32	814
Sury, Paul, et al. (See Müller, Armand, assignor.)						
Susemihl, Francis G., Detroit, Mich. Car-bearing	311,618	Feb. 3	212	60	30	388
Susemihl, Francis G., Detroit, Mich. Car-brake	321,397	June 30	3293	880	31	1682
Sustaire, John T., Matthews, assignor of one-half to J. E. Black, Mecklenburg County, N. C. Car-coupling	313,455	Mar. 3	583	150	30	855
Sutherland, David, St. Louis, Mo. Car-door	325,218	Aug. 25	2465	678	32	1003
Sutherland, George, Adelaide, South Australia. Producing typographic blocks or plates from photo-negatives	325,636	Sept. 1	554		32	1120
Sutherland, George C. (See Keith and Sutherland.)						
Sutherland, John, assignor of one-half to J. Hess, Attica, Ind. Crane	328,081	Oct. 13	753	196 197	33	142
Sutherland, John R., assignor of one-half to G. A. Porter, Syracuse, N. Y. Valve-gear	317,475	May 5	742	188	31	657
Sutliff, James R., Meriden, assignor to Foster, Merriam & Co., West Meriden, Conn. Drawer-knob	325,712	Sept. 8	671	188	32	1146
Sutton, Benjamin F., assignor to Davol Rubber Company, Providence, R. I. Atomizer	318,930	May 26	2680	710	31	1039
Sutton, Benjamin F., Providence, R. I., assignor of two-thirds to R. Parker and J. H. Stearns, Brooklyn, N. Y. Syringe	319,937	June 9	1320	348	31	1297
Sutton, Charles, San Francisco, Cal. Stamping margins for cement pavements, &c.	312,225	Feb. 10	1045	286	30	549
Sutton, George. (See Darose and Sutton.)						
Sutton, George D., New York, N. Y. Street curb and gutter	329,342	Oct. 27	2492	643	33	475
Sutton, George D., New York, N. Y. Street-curb	329,343	Oct. 27	2493	643	33	475
Sutton, George D., New York, N. Y. Street curb and gutter	329,344	Oct. 27	2495	643	33	476
Sutton, John W., New York, N. Y. Machine for plucking pelts	322,137	July 14	909	290	32	190
Sutton, William A., New York, N. Y. Skate	330,527	Nov. 17	1482	396	33	803
Suydam, James, Milwaukee, Wis. Syringe	324,420	Aug. 18	1402	382	32	799
Suydam, Samuel A., New York, N. Y. Siphon for ice-boxes and refrigerators	322,992	July 28	2155	572	32	415
Svedberg, John A., Washington, D. C. Steam-boiler	324,430	Aug. 18	1402	382	32	792
Svenson, Fritz S., Lund, Sweden. Lamp	321,657	July 7	330	87	32	69
Svensson, Claes A., assignor of one-half to W. W. Oliver, Buffalo, N. Y. Metal-shears	317,883	May 12	1274	339	31	765
Swab, Joseph F., Cedar Rapids, Iowa. Transportation-can	328,022	Oct. 13	754	197	33	143
Swab, Joseph F., Cedar Rapids, Iowa. Churn	328,023	Oct. 13	750	197	33	143
Swade, Amos W. (See Hiestand and Swade.)						
Swain, John B., Newbern, Ind. Churn-dasher	332,620	Dec. 15	2090	549	33	1383
Swain, John M., assignor of three-fourths to M. F. Maddox, Bloomington, Ind. Kitchen-cabinet	323,374	July 28	2695	717	32	512
Swain, Addis E., Cherryvale, Kan. Rolling window-screen	321,921	July 7	701	183	32	127
Swain, Appious C., Chico, Cal. Gas-retort	310,744	Jan. 13	749	203	30	148
Swain, Fred F., assignor of one-half to G. W. Tilton, Chicago, Ill. Crank-pin lubricator	313,964	Mar. 17	1275	333	30	1030
Swain, Fremont, Indianapolis, Ind. Bicycle	311,687	Feb. 3	298	81	30	405
Swan, Alfred, Low Fell Works, Gateshead-on-Tyne, England. Holder for incandescent electric lamps	313,965	Mar. 17	1276	333	30	1031
Swan, Eugene R., Applington, Iowa. Cooking-table	327,502	Sept. 29	3067	799	32	1600
Swan, George E., Beaver Dam, Wis. Spring-heel for boots or shoes	323,971	Aug. 11	763	213	32	674
Swan, Henry C., Oshkosh, Wis. Two-wheeled vehicle	319,037	June 2	126	34	31	1071
Swan, Henry C., assignor of one-half to H. M. Clark, Oshkosh, Wis. Spring-wagon	324,342	Aug. 11	1282	347	32	769
Swan, James, Seymour, Conn. Machine for the manufacture of auger-bits	313,456	Mar. 3	584	150	30	895
Swan, James, Seymour, Conn. Auger	320,097	June 16	1543	406	31	1345

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Swan, Joseph W., Newcastle-upon-Tyne, county of Northumberland, assignor to Electrical Power Storage Company, (limited,) London, England. Secondary battery	312,599	Feb. 17	1565	427	30	655-
Swan, Joseph W., Laureston, Bromley, county of Kent, England. Secondary battery	318,828	May 26	2548	679	31	1014
Swan, Joseph W., Bromley, county of Kent, England, assignor to T. J. Montgomery, New York, N. Y. Manufacture of carbons for incandescent lamps	322,993	July 28	2158	572	32	415
Swan, Patrick J., Ira, Iowa. Grab-iron for railway-switches	323,220	July 28	2485	680	32	476
Swann, Francis M., and W. W. Adkins, Tyler Creek, W. Va. Wagon-brake	332,681	Dec. 15	2091	549	33	1383
Swann, John, et al. (See Elbridge, Martin V. B., assignor.)						
Swanson, John, Mendota, Ill. Pedal attachment for organs	311,688	Feb. 3	300	82	30	406
Swanton, William H., Boston, Mass. Stove or range	329,416	Oct. 27	2907	673	33	495
Swartout, Emma J., Danbury, Conn. Machine for sewing hat-tips	316,414	Apr. 21	1980	521	31	370-
Swartz, Francis M., Jacksontown, Ohio. Sheep-stock	312,403	Feb. 17	1293	357	30	605
Swartzenburg, Walter J. (See Peters and Swartzenburg.)						
Swartzwelder, Harrison, et al. (See Allfree, James B., assignor.)						
Swasey, Ambrose, Cleveland, Ohio. Gear-cutting machine	327,037	Sept. 29	2461	643 644	32	1495-
Swasey, Ambrose, Cleveland, Ohio. Cutting teeth of gear-wheels	333,488	Dec. 29	3202	637 638	32	1596-
Swayze, Stephen J., and J. C. Lane, Sag Harbor, N. Y. Time-signal	327,739	Oct. 6	311	80	33	54
Sweatt, Francis V. (See Sweatt, James J., G. H., and F. V.)						
Sweatt, George H. (See Sweatt, James J., G. H., and F. V.)						
Sweatt, James J., G. H., and F. V., Conyersville, Tenn. Seed-drill	313,250	Mar. 3	320	79	30	834
Sweatt, Leavitt L., Manchester, N. H. Stop-motion for spinning-frames	314,153	Mar. 17	1514	397	30	1075-
Sweeney, Andrew J., Pana, Ill. Corn-cultivator	311,689	Feb. 3	301	82	30	405
Sweeney, Andrew J., Pana, Ill. Scoop-board for wagons	315,676	Apr. 14	970	254	31	183
Sweeney, David H., Fitchburg, Mass. Scraper	323,972	Aug. 11	764	214	32	674
Sweeney, Dennis, Amsterdam, N. Y., and G. Rehfuess, assignors to Dewees Fabric Trimmer Company, (limited,) Philadelphia, Pa. Machine for trimming fabrics	329,865	Nov. 3	595	153	33	616
Sweeney, Dennis F. (See Partridge, Andrew, assignor.)						
Sweeney, Dennis F. (See Partridge and Sweeney.)						
Sweeney, James, Cerning, Ohio. Churn-power and butter-worker combined	328,906	Oct. 20	1836	479	33	350-
Sweeney, John M., assignor to himself and M. S. Baldwin, Monmouth, Ill. Portable hay and grain cover	328,437	Oct. 13	1222	317	33	931
Sweeney, Dennis J., et al. (See Ashworth, John, assignor.)						
Sweet, Clayton E., et al. (See Rohme, James H., assignor.)						
Sweet, Clinton W., et al. (See Rohme, James H., assignor.)						
Sweet, Fletcher & Co. (See Fletcher, Henry, assignor.)						
Sweet, Horace E., Providence, R. I. Tool-holder	329,069	Nov. 10	749	189	33	650-
Sweet, John E., assignor to T. Hooker, Syracuse, N. Y. Micrometer-gage	313,552	Mar. 10	702	184	30	917
Sweet, Joseph L., Attleborough Falls, Mass. Appendage for ornamental chains	331,743	Dec. 1	749	189	33	1131
Sweet, Parker H., Jr., Washington, D. C., assignor to Heaton Button Fastener Company, Providence, R. I. Button-fastener	323,465	Aug. 4	106	31	32	542-
Sweet, Parker H., Jr., Washington, D. C., assignor to Heaton Button Fastener Company, Providence, R. I. Setting-instrument for attaching buttons to wearing-apparel	323,466	Aug. 4	107	31	32	542-
Sweet, Sidney. (See Davis, Robert W. and A. W., assignors.)						
Sweet, Thomas A., Cambria, Cal. Wheel-harrow	321,922	July 7	702	183	32	127
Sweet, William A., Syracuse, N. Y. Turning the ends of springs	320,187	June 16	1043	442	31	1367
Sweet, William A., Syracuse, N. Y. Billet for rolling wire	321,658	July 7	331	86	32	63
Sweet, William A., Syracuse, N. Y. Machine for cutting toe-calks for horseshoes	321,659	July 7	331	86	32	63
Sweetland, Alvah, Syracuse, N. Y. Plant-cutting shears	330,355	Nov. 10	1250	332	33	752-
Sweetland, Cornelius S. (See Ford, Franklin D., assignor.)						
Sweetland, Jerome B., Pontiac, Mich. Churn	325,637	Sept. 1	555	141	32	1121
Sweitzer, Eugene, Allegheny, Pa. Curtain-stretcher	319,345	June 2	500	136	31	1143-
Swem, Lawrence W., West Liberty, Iowa. Adding-machine	327,970	Oct. 6	604	157	33	108
Sweeney, Charles E., Pierceton, Ind. Check-roller apparatus for corn-planters	318,931	May 26	2621	711	31	1039-
Swenson, Bengt J., Sugar Land, Tex. End-gate fastener	314,154	Mar. 17	1515	397	30	1075-
Swenson, Lorens, Cresco, Iowa. Fire-escape ladder	316,415	Apr. 21	1984	521	31	371
Swentzel, Edward W. (See McConnell, Andrew, assignor.)						
Sweet, Albert L., Medina, N. Y. Stay-roller for sliding doors	319,938	June 9	1321	348	31	1397
Sweat, Quimby & Co. (See Quimby, Jn Ius F., assignor.)						
Sweet, William O., Normal Park, Ill. Staple-fastener for wooden vessels	314,304	Mar. 17	1576	417	30	1086
Swezey, Joseph B., East Patchogue, N. Y. Bill-file	332,221	Dec. 8	1442	372	33	1964
Swift, Albert L., Leavenworth, Kans. Oil-cup	328,907	Oct. 20	1838	479	33	350-
Swift, Alonzo. (See Parmelee and Swift.)						
Swift, Edwin E., Paterson, N. J. Thill-coupling	321,398	June 30	3296	880	31	1683
Swift, George B. (See Ripley, Heisey, and Swift.)						
Swift, R. K., and L. E. Phelps, assignors of one-third to J. J. A. Zeller, Rochelle, Ill. Disk-harrow	310,475	Jan. 6	364	109 110	30	76
Swindell, Edward, Apalachicola, Fla. Construction of ships	323,831	Aug. 4	576	163	32	631
Swindell, Edward, Apalachicola, Fla. Construction of ships	323,832	Aug. 4	577	163	32	632
Swindell, William, Allegheny City, Pa. Gas-furnace	310,745	Jan. 13	750	204	30	148
Swindell, William, Allegheny, Pa. Regenerative natural-gas furnace	332,094	July 28	2157	572	32	416
Swindell, William, Allegheny, Pa. Regenerative natural-gas furnace	322,995	July 28	2158	573	32	416
Swindell, William, Allegheny, Pa. Gas-furnace	327,618	Oct. 6	158	38, 39	33	29
Swinehart, William H. (See Mitchell, Oliver F., assignor.)						
Swing, Tilford C., Mason City, Ill. Piano-pedal attachment	311,043	Jan. 20	1154	315	30	228
Swinhart, William H. (See Mitchell, Oliver F., assignor.)						
Swinnerton, William O., San José, Cal. Windmill	316,078	Apr. 21	1523	397	31	288
Swinton, David L., Port Jervis, N. Y. Grate for stoves and furnaces	328,438	Oct. 13	1223	317	33	931
Swivel, Andrew. (See Leifer and Swivel.)						
Switzer, Rufus, et al. (See Hummel, William C. B., assignor.)						
Swoboda, M. (See Eisler, Marcus, assignor.)						
Swope, Horace G., and J. R. Rude, deceased, (W. W. Snyder executor,) assignors to Rude Brothers Manufacturing Company, Liberty, Ind. Wheel-cultivator	321,399	June 30	3296	880	31	1683
Swope, John E., Elizaville Ind. Car-coupling	332,847	Dec. 22	2311	610	33	1431
Sword, Chancy N. (See Rice, Sword, and Wilder.)						
Sylvester, Charles R., Little Falls, assignor of one-half to G. Sylvester, Milwaukee, Wis. Turbine water-wheel	321,660	July 7	333	88, 89	32	63-
Sylvester, George. (See Blascow, David H., assignor.)						
Sylvester, George. (See Michelson, Sigismund M., assignor.)						
Sylvester, George. (See Michelson, Sigismund M., assignor.) (Reissue.)						
Sylvester, George. (See Sylvester, Charles R., assignor.)						
Syme, Chapman J., Petersburg, Va. Machine for assorting peanuts, &c	314,749	Mar. 31	2304	612	30	1256-

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Symington, Robert B. (See Chiccheater, Lewis S., assignor.)						
Symington, William A., <i>et al.</i> (See Gill, Edwin R., Jr., assignor.)						
Symons, Robert R., <i>et al.</i> (See Maxim, Hiram S., assignor.)						
Symonds, Clarence M., San Francisco, Cal. Canister	311,690	Feb. 3	302	82	30	406
Symons, Henry. (See Duke, Joseph, assignor.)						
Symons, Henry, Totnes, county of Devon, England. Gas-carburetor	317,686	May 12	1015	964	31	715
Symons, Josiah W. (See Hewitt, Charles E., assignor.)						
Synnot, Thomas W., Wenonah, assignor to Whitney Brothers, Glassborough, N. J. -Glass-furnace	329,970	Nov. 10	743	189	33	650
Synold, Alfred, Columbus, Ohio. Account-book	312,226	Feb. 10	1046	928	30	549
Sypher, George W., Seneca, Kans. Rotary steam-valve	321,156	June 30	2990	793	31	1624
Syracuse Bolt Company. (See Colton, George A., assignor.)						
Syracuse Paper Ware Company. (See Annable and Leonard, assignors.)						
Syracuse Paper Ware Company. (See Leonard, Henry W., assignor.)						
Syracuse Paper Ware Company. (See Leonard and Stevens, assignors.)						
Taaffe, Henry M., deceased; J. Meley, San Francisco, Cal., administratrix. Car-brake	326,666	Sept. 22	1923	505	32	1391
Taaffe, Henry M., deceased; J. Meley, San Francisco, Cal., administratrix. Automatic car-brake	326,667	Sept. 22	1924	506	32	1391
Taaffe, Henry M., deceased; J. Meley, San Francisco, Cal., administratrix. Automatic guard or track-clearer	326,668	Sept. 22	1925	507	32	1391
Taber, Benjamin F., Buffalo, N. Y. Rotary pump	333,356	Dec. 29	3083	792	23	1566
Taber, Clark A., <i>et al.</i> (See Taber, William D., assignor.)						
Taber, Loyal C., Danforth, N. Y. Traction-engine	320,238	Oct. 27	2336	605	33	447
Taber, William D., assignor to himself, C. A. Taber, Rockville, and J. A. Covey, Hope Valley, R. I. Check-rein holder	325,285	Sept. 1	76	22	32	1030
Taber, William D., assignor to himself, C. A. Taber, Rockville, and J. A. Corey, Hope Valley, R. I. Check-rein holder	333,031	Dec. 22	2581	678	33	1481
Tabor, Anson, <i>et al.</i> (See Norris, Charles E., assignor.)						
Tabor, Harris, New York, N. Y. Shaft-coupling	322,266	July 21	1965	520	32	373
Tabor, Harris, New York, N. Y. Speed-indicator	325,091	Sept. 8	1092	260	32	1211
Tabourin, Georges A., Marseilles, France. Voltaic-arc lamp	315,571	Apr. 14	837	220	31	155
Tack, Charles M., St. Louis, Mo. Sink-valve	317,043	May 5	144	37	31	548
Tack, M. A., <i>et al.</i> (See Clarke, William H., assignor.)						
Tacts, John B. (See Galatian and Tacts.)						
Taft, Charles E., assignor of one-half to C. V. Hickox, Chicago, Ill. Surveying-instrument	311,386	Jan. 27	1654	452	30	324
Taft, Edward A., Davenport, Iowa. Hose-truck	320,015	June 16	1434	377	31	1325
Taft, Edward L. (See Ellis and Taft.)						
Taft, Edward L., Gardner, and H. M. Rich, Athol, Mass. Hand nailing implement	329,686	Nov. 3	350	89	33	
Taft, George W., Abington, Conn. Machine for making, repairing, and cleaning roads	335,091	Apr. 7	288	68, 69	31	51
Taft, George W., Abington, Conn. Machine for making, repairing, and cleaning roads	331,920	Dec. 8	990	258	33	1185
Taft, James O., Howell, Mich. Stock-rack	315,677	Apr. 14	971	254	31	182
Taft, Lafayette, Douglass, Mass. Picker-stick for looms	320,971	Nov. 10	744	189	33	651
Taft, Ryland L. (See Buchanan and Dodge, assignors.)						
Taft, Ryland L., assignor to Illinois Watch Company, Springfield, Ill. Machine for ruling dials	312,227	Feb. 10	1047	287	30	549
Taft, Ryland L., assignor to Illinois Watch Company, Springfield, Ill. Stem winding and setting watch	330,273	Nov. 10	1135	302	33	730
Taft Twist Drill and Tool Company. (See Taft, Walter E., assignor.)						
Taft, Walter E., assignor to Taft Twist Drill and Tool Company, Providence, R. I. Machine for making drill-blanks	318,322	May 19	1867	501	31	883
Taggart, Francis S., Freeport, Ill. Pulley-block	313,553	Mar. 10	706	184	30	917
Taggart, Frank J., Adrian, Mich. Car-coupling	329,357	Dec. 29	3033	792	23	1567
Taggart, G. Ellis, <i>et al.</i> (See Lytle, Albert E., assignor.)						
Tagliabue, Charles J., Brooklyn, N. Y. Syringe	325,132	Aug. 25	2348	647	32	982
Tahl, Isidor, New York, N. Y. Folding paper box	331,568	Dec. 1	450	117	33	1078
Tainter, William H. II., <i>et al.</i> (See King, George H., assignor.)						
Tainter, William H. H., <i>et al.</i> (See Millard, Martin S., assignor.)						
Tainter, William H. H., <i>et al.</i> (See Millard and King, assignors.)						
Talbott, Jesse H., Nevada, assignor of one-half to L. Schooler, Des Moines, Iowa. School-desk	311,928	Feb. 10	626	173	30	473
Taliaferro, Eilbeck H., assignor of one-half to G. W. Barnett, Big Spring, Va. Quilting-frame for sewing-machines	327,118	Sept. 29	2575	671	32	1514
Taliaferro, Ruben, and E. P. Mitchell, Hueneme, Cal. Two-wheeled vehicle	310,746	Jan. 13	752	205	30	149
Talka, Henry, assignor of one-half to H. Doherty, Paterson, N. J. Take-up mechanism for looms	329,972	Nov. 10	744	190	33	651
Tallerdy, Franklin G., Poplar Grove, Ill. Wind-wheel	330,168	Nov. 10	1007	263	33	705
Talley, James H. R., and C. P. Barnes, Sheldon, Mo. Dumping-car	326,807	Sept. 22	2151	560	32	1431
Tallman, Charles H. (See Blankley and Tallman.)						
Tallman, James, <i>et al.</i> (See Prentiss, Frank, assignor.)						
Tallman, Michael R., assignor of one-half to S. L. Foster, Philadelphia, Pa. Shutter-bower	314,750	Mar. 31	2305	612	32	1257
Tallravn, Thomas R., Brooklyn, N. Y. Repeater for quadruplex telegraphs	320,311	June 16	1857	468	31	1400
Tambling, William H., San Francisco, Cal. Churn	312,671	Feb. 24	1656	457	30	681
Tanczos, Rudolf, Vienna, Austria-Hungary. Fireproofing wood	329,973	Nov. 10	746		33	651
Tanger, David B., near Bellefontaine, Ohio. Hay-loader	329,687	Nov. 3	353	90	33	572
Tanner, Benjamin, Sturgis, Mich. Hay-rack	323,467	Aug. 4	108	31	32	542
Tanner, George W., Providence, R. I. Cigar-machine	321,259	June 30	3116	829	31	1648
Tanner, George W., Providence, R. I. Cigar-machine	324,185	Aug. 11	1056	289	32	726
Tanner, James M., Herrick, Ill. Washing-machine	325,457	Sept. 1	325	79	32	1077
Tanner, Norman A., New Haven, Conn. Clamp for roller-skates	329,239	Oct. 27	2338	605	33	447
Tanner, William J., London, county of Middlesex, England. Electrical apparatus for separating gold from ores	328,532	Oct. 20	1335	346	33	259
Taney, Vurlin G., Ashland, Nebr. Holder for ornamental and fly paper	317,241	May 5	423	106	31	600
Tapeley Machine Company. (See Addy, Charles J., assignor.)						
Tapling, Francis E., Mount Gilead, Ohio. Railway-chair	311,387	Jan. 27	1655	452	30	325
Tappe, August and C., Bloomington, Ill. Tobacco-pipe	331,569	Dec. 1	459	117	33	1078
Tappe, Charles. (See Tappe, August and C.)						
Tarbox, David N. (See Eapy and Tarbox.)						
Tarbox, Frank T., Cedarville, Ohio. Dumping-wagon	313,126	Mar. 3	115	22	30	798
Tarkington, George. (See Rains and Tarkington.)						
Tarkington, William S. R., Indianapolis, Ind. Rein-support	321,460	July 7	69	19	32	15
Tarney, Simeon U., Auburn, Ind. Window-screen roller	311,044	Jan. 20	1155	315	30	228
Tarragon, Charles A., Portland, Oreg. Brick-machine	319,639	June 9	914	241	31	1225

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Tasker, Charles P. (See Wendell, Isaac P., assignor.)						
Tasker, Stephen P. M. (See Borie, Hiram R., assignor.)						
Tasker, Stephen P. M., Philadelphia, Pa. Manufacture of leathery compound	332,996	July 28	2159		32	416
Tasker, Stephen P. M., Philadelphia, Pa. Mandrel	331,570	Dec. 1	463	117 118	33	1079
Tasker, Stephen P. M., Philadelphia, Pa. Machine for making tubes from hollow ingots..	331,571	Dec. 1	454	118	33	1079
Tasker, Stephen P. M., Philadelphia, Pa. Machine for making tubes from hollow ingots..	331,572	Dec. 1	458	118	33	1079
Tasker, Stephen P. M., Philadelphia, Pa. Roller-mandrel	331,573	Dec. 1	463	119	33	1080
Tasker, Stephen P. M., Philadelphia, Pa. Machine for making taper tubes from hollow ingots	331,574	Dec. 1	465	119	33	1080
Tasker, Stephen P. M., Philadelphia, Pa. Machine for making taper tubes from hollow ingots	331,575	Dec. 1	470	119	33	1081
Tasker, Stephen P. M., Philadelphia, Pa. Machine for making taper tubes from hollow ingots	331,576	Dec. 1	475	120	33	1082
Tasker, Stephen P. M., Philadelphia, Pa. Mandrel	331,577	Dec. 1	480	120	33	1082
Tasker, Stephen P. M., Philadelphia, Pa. Machine for making tubes from hollow ingots..	331,578	Dec. 1	485	120	33	1083
Tasker, Stephen P. M., Philadelphia, Pa. Machine for making tubes from hollow ingots..	331,579	Dec. 1	486	121	33	1083
Tasker, Stephen P. M., Philadelphia, Pa. Machine for making tubes from hollow ingots..	331,580	Dec. 1	490	121 122	33	1084
Tasker, Stephen P. M., Philadelphia, Pa. Machine for making tubes from hollow ingots..	331,581	Dec. 1	485	122 123	33	1084
Tasker, Stephen P. M., Philadelphia, Pa. Machine for making tubes from hollow ingots..	331,582	Dec. 1	500	123 124	33	1085
Tasker, Stephen P. M., Philadelphia, Pa. Machine for making tubes from hollow ingots..	331,583	Dec. 1	505	194	33	1086
Tasker, Stephen P. M., Philadelphia, Pa. Machine for making tubes from hollow ingots..	331,584	Dec. 1	509	194 195	33	1086
Tate, George J. F., London, England. Portable exercising stool or chair	331,157	June 30	2991	793	31	1694
Tate, Minnie B., Johnstown, Ill. Cooking utensil	335,188	Aug. 25	9429	966	32	996
Tate, Robert M., Somerset, Ky. Animal-trap	336,460	Sept. 15	1649	431	32	1334
Tate, William, Winston, N. C. Grain and seed separator and grader	319,528	June 9	758	203	31	1197
Tatum, Benjamin F., Memphis, Tenn. Shelf-bracket	317,242	May 5	424	106	31	601
Tatum, Thomas E., assignor of one-half to D. C. Sumner, Worcester, Mass. Combination-tool for boot or shoe makers' use	329,503	Nov. 3	105	97	33	525
Tatham, Edwin, Balmain, New South Wales. Oscillating meter	332,560	July 21	1484	389 390	32	226
Tatham, Henry B. Jr., Philadelphia, Pa. Artificial mother for raising chickens	321,060	June 30	2874	764	31	1603
Tatham, James, Philadelphia, Pa. Attachment for lead-pipe presses	327,835	Oct. 6	430	112	33	76
Tatham, James, Philadelphia, Pa. Manufacture of sheathed and insulated electrical conductors	327,971	Oct. 6	605	158	33	109
Tatlow, Forrester M., Hannibal, Mo. Feed-regulator for roller-mills	314,627	Mar. 31	2150	572	30	1227
Tatnall, Thomas, Wilmington, Del. Hay or straw cutter	331,343	Dec. 1	118	28	33	1020
Tatro, William B., Hartford, Conn. Friction-clutch	329,866	Nov. 3	597	153	33	616
Tatum & Bowen. (See Harbach, Daniel L., assignor.)						
Tatum & Bowen. (See Wheeler, Henry W., assignor.)						
Tatum & Co., Samuel C. (See Bennett, John M., assignor.)						
Tatum, J. W. (See Garrard, Samuel, assignor.)						
Taubert, Julius. (See Buckler, Cain, Taubert, and Pelzer.)						
Tawler, E. T., et al. (See Richardson, George W., assignor.)						
Tawler, Willard A., et al. (See Richardson, George W., assignor.)						
Taylor, Albert F., Pawtucket, R. I. Hub-cap	310,332	Jan. 6	238	65	30	45
Taylor, Benjamin, Morrilton, Ark. Spring-frame for beds, &c	318,219	May 19	1726	461	31	858
Taylor, C. W. (See White, John F., assignor.)						
Taylor, Charles B. (See Kind, Clement, assignor.)						
Taylor, Charles B., Denver, Colo. Book-shelf	332,627	Dec. 15	2006	526	33	1369
Taylor, Charles L., Swissvale, and J. Skewis, Pittsburg, Pa. Rolling beams	318,220	May 19	1727	462	31	859
Taylor, Charles M., assignor of one-half to A. P. Turner, London, England. Bottle-stop-per	328,533	Oct. 20	1338	348	33	950
Taylor, Charles W., Gallatin, Tenn. Hand-motor for sewing-machines	327,349	Sept. 29	2881	752	32	1568
Taylor, Clarence W., Janesville, Wis. Fountain pen	330,500	June 23	2146	566	31	1462
Taylor, Crispin H., Brooklyn, assignor to T. Coit, New York, N. Y. Screw-cap for jars	318,929	May 26	2550	679	31	1014
Taylor, Cyrus, Denver, Colo. Railway-rail joint	325,458	Sept. 1	396	79	32	1077
Taylor, Daniel R., and W. I. Ludlow, Cleveland, Ohio; said Ludlow assignor to said Taylor. Car-coupling	319,863	June 9	1214	320	31	1278
Taylor, David E., Dudley, Mass. Atmospheric washing-machine	327,619	Oct. 6	159	39	33	29
Taylor, De Witt C., New York, N. Y. Alphabet-block	322,210	July 14	1069	283	32	907
Taylor, Edmund B., College Hill, Mass. Vehicle device for checking horses	313,897	Mar. 17	1173	306	30	1012
Taylor, Edward G. (See Taylor, Sydney W., assignor.)						
Taylor, Edward R., Cleveland, Ohio. Apparatus for the manufacture of carbon bisulphide.	321,661	July 7	333	89	32	63
Taylor, Edward R., Cleveland, Ohio. Apparatus for the manufacture of carbon bisulphide.	321,662	July 7	335	89	32	64
Taylor, Edward R., Cleveland, Ohio. Apparatus for the manufacture of carbon bisulphide.	321,771	July 7	494	131	32	92
Taylor, Elbert C., Stockton, Mo. Churn	323,358	Dec. 29	2068	793	32	1567
Taylor, Elizabeth A., Baltimore, Md. Fruit-jar	325,877	Sept. 8	882	222	32	1185
Taylor, Eugene H. (See Tyler and Taylor.)						
Taylor, Eugene H., Lynn, assignor of two-thirds to G. W. Hollis, Boston, and L. W. Pen-nell, Watertown, Mass. Tag-fastener	321,864	July 7	632	163	32	115
Taylor, Franklin, et al. (See Chandler and Dodda, assignors.)						
Taylor, Franklin, assignor to Vulcanized Fibre Company, Wilmington, Del. Vulcanized fiber roller or wheel, &c	316,847	Apr. 28	2500	677	31	469
Taylor, Franklin, assignor to Vulcanized Fibre Company, Wilmington, Del. Nut-lock	326,345	Sept. 15	1518	395	32	1310
Taylor, Franklin, assignor to Vulcanized Fibre Company, Wilmington, Del. Composite roller	320,099	Oct. 27	2140	553	33	410
Taylor, Frederick. (See Disbee, Wisner B., assignor.)						
Taylor, Frederick. (See Davis, Arthur W. S., assignor.)						
Taylor, Frederick A., et al. (See Stanton, Lafayette J., assignor.)						
Taylor, Frederick S., Riegelsville, N. J. Bed-plate for paper-pulp engines	320,721	June 23	2420	641	31	1513
Taylor, George, Jersey City, N. J. Device for regulating the flow of gases and fluids	325,459	Sept. 1	327	79	32	1077
Taylor, George, Jersey City, N. J. Pyrotechnical toy	329,504	Nov. 3	106	28	33	525
Taylor, George C., Hicksville, Ohio. Tilt-scoop	323,173	Dec. 29	2780	798	32	1221
Taylor, George J., Salt Lake City, Utah Ter. Treadle for pedometers	323,085	July 28	2287	606	32	439
Taylor, George W., Baltimore, Md. Sheet-metal can	315,854	Apr. 14	1212	316	31	227
Taylor, George W., and S. Smyrna, Del. Wheel-cultivator	312,228	Feb. 10	1048	287	30	549
Taylor, Gorham H., Yarmouth, Mass. Lock for steering-gear of vessels	320,510	June 23	2148	567	31	1462
Taylor, Harrison H., assignor to F. A. Hubel, Detroit, Mich. Capsule-machine	311,860	Feb. 3	516	140	30	445

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Taylor, Harrison H., assignor to F. A. Hubel, Detroit, Mich. Capsule-machine	323,753	Aug. 4	482	{ 136 137 }	32	614
Taylor, Harrison H., assignor to Detroit Machine Screw Works, Detroit, Mich. Machine for threading tapering bushings	331,167	Nov. 24	2312	616	33	967
Taylor, Henry F., Neath and Briton Ferry, county of Glamorgan, and G. Leyshon, Tivdale, county of Stafford, assignors to Taylor, Struvé, Eaton & Price, Neath and Briton Ferry, South Wales, England. Apparatus for coating metal plates	329,240	Oct. 27	2339	{ 605 606 }	33	447
Taylor, Henry F., Neath and Briton Ferry, county of Glamorgan, and G. Leyshon, Tivdale, county of Stafford, assignors to Taylor, Struvé, Eaton & Price, Neath and Briton Ferry, South Wales, England. Manufacturing fluxes	332,458	Dec. 15	1762		33	1326
Taylor, Henry R., Oakland, Cal. Ore crusher and pulverizer	313,554	Mar. 10	708	{ 184 185 }	30	918
Taylor, Hiram, assignor of one-half to J. Heckart, Salem, Ohio. Milk-can	324,611	Aug. 18	1641	432	32	843
Taylor, J. C. (See Moore and Ball, assignors.)						
Taylor, James, Wigan, county of Lancaster, England. Vehicle-wheel	325,024	Aug. 25	2212	607	32	956
Taylor, James A., and J. F. Knapp, Hamburg, N. Y. Folding settee or bench	324,431	Aug. 18	1404	382	32	799
Taylor, James H., Westfield, Mass. Butter-worker	324,186	Aug. 11	1057	289	32	727
Taylor, James R., and P. Lockwood, Marshall, Mich. Combined dust catcher and separator for middlings purifiers	325,713	Sept. 8	672	168	32	1146
Taylor, James S., Danbury, Conn. Machinery for scalding and felting hat-bodies	343,127	Mar. 3	116	28	30	798
Taylor, John. (See Dowson and Taylor.)						
Taylor, John B. La Monte, Mo. Device for removing wagon-bodies	330,752	Nov. 17	1767	476	33	858
Taylor, John C., Niles, Mich. Lock	332,966	Dec. 22	2478	656	33	1463
Taylor, John F., West Park, N. Y. Door-bolt	322,211	July 14	1089	283	32	207
Taylor, Lucius L., Seaboard, N. C. Cotton or hay press	333,859	Dec. 29	3037	793	33	1567
Taylor, M. Temple, Mobile, Ala. Combined ventilated vegetable and stock car	332,021	Dec. 8	1141	{ 298 299 }	33	1211
Taylor, Marcus E. (See Palmer, John W., assignor.)						
Taylor, Miles D., assignor of one-half to W. C. Stevens, Janesville, Wis. Self-binding harvester	331,921	Dec. 8	1002	{ 259 260 261 }	33	1186
Taylor, N. W., et al. (See Brightman, Joseph W., assignor.)						
Taylor, Richard, et al. (See Kellogg, Charles, assignor.)						
Taylor, Robert H., Sheffield, county of York, England. Spring-packing for pistons and other analogous uses	313,251	Mar. 3	321	79	30	835
Taylor, Robert R., Washington, D. C. Conduit for electric wires	332,761	Dec. 22	2206	582	33	1412
Taylor, Samuel. (See Taylor, George W. and S.)						
Taylor, Samuel C., Morton, near Bingley, county of York, England. Window	396,605	Sept. 22	1844	{ 483 484 }	32	1377
Taylor, Stephen H., Remington, Ind. Hog-ringer	327,119	Sept. 29	2575	671	32	1514
Taylor, Struvé, Eaton & Price. (See Taylor and Leyshon, assignors.)						
Taylor, Sydney W., Newport, R. I., assignor to E. G. Taylor, New York, N. Y. Slight-plumb for fire-arms	316,416	Apr. 21	1985	522	31	371
Taylor, Theodore, Mount Vernon, N. Y. Rope-fastener	322,501	July 21	1427	390	32	286
Taylor, Theodore F., Brooklyn, N. Y. Telephone-receiver	314,135	Mar. 17	1515	398	30	1075
Taylor, Theodore F., Brooklyn, N. Y. Telephone-receiver	314,156	Mar. 17	1517	398	30	1075
Taylor, Theodore F., Brooklyn, N. Y. Telephone-receiver	314,157	Mar. 17	1519	398	30	1076
Taylor, Thomas, assignor to Norwalk Lock Company, Norwalk, Conn. Door-key	313,692	Mar. 10	881	230	30	951
Taylor, Thomas P., Bridgeport, Conn. Fish-pole holder	314,751	Mar. 31	2206	613	30	1257
Taylor, Thomas W., assignor to himself and B. Lynch, Worcester, Mass. Glazing	324,499	Aug. 18	1488	407	32	814
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Street letter-box	329,688	Nov. 3	354	90	33	572
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock	332,459	Dec. 15	1763	461	33	1326
Taylor, Washington, Ponca, Nebr. Horse hay and manure fork	312,966	Mar. 17	1277	333	30	1031
Taylor, William H. (See Isbell and Taylor.)						
Taylor, William J. (See Johnston and Taylor.)						
Taylor, William J., Chester, N. J., assignor to Ridgway Refrigerator Company, (limited,) Philadelphia, Pa. Refrigerator	320,791	June 23	2421	642	31	1504
Taylor, William S., Huntingdon, Pa. Hydraulic air-pump	326,346	Sept. 15	1519	395	32	1310
Taylor, William W., New Orleans, La. Steam-trap	326,347	Sept. 15	1520	395	32	1310
Tcherniac, Joseph. (See De Günzburg and Tcherniac.)						
Teagle, John, Cleveland, Ohio. Apparatus for freezing paraffine-oils	314,498	Mar. 24	1967	523	30	1168
Teague, Moses F., Indianapolis, Ind. Escapement-motor	328,360	Oct. 13	1107	287	33	210
Teague, Vandiver, Lenoir, N. C. Flour-bolt reel	324,187	Aug. 11	1058	290	32	727
Teal, B. Frank, Philadelphia, Pa. Spring-motor	323,540	Aug. 4	209	61, 62	32	561
Teal, Daniel E. (See Van Valkenburgh and Teal.)						
Teal, Ferguson, Utica, Iowa. Apparatus for weighing stock	319,038	June 2	127	35	31	1071
Teal, Henry W., assignor of one-half to E. Blew and W. W. Adamson, Montrose, Mo. Motor	317,044	May 5	145	37	31	548
Teal, Levi. (See Starr and Teal.)						
Teall, William S., Little Falls, N. Y. Breech-loading fire-arm	322,568	July 21	1570	414	32	300
Tebbetts, Paul, and D. R. Faulkner, Homer, N. Y. Manufacture of oil-cloth	328,084	Oct. 13	757		33	143
Tecktonius, Emil C., assignor of one-half to Mitchell & Lewis Company, (limited,) Racine, Wis. Vehicle-spring	321,663	July 7	337	89	32	64
Teed, George, New York, N. Y. Banjo	313,384	Mar. 3	424	127	30	866
Teeter, Eljah R. H., White House Station, N. J. Revolving stand	312,528	Feb. 17	1473	403	30	637
Teeter, George O., Teeterville, Ontario, Canada. Rein-holder	320,793	June 23	2423	642	31	1514
Teeter, Horace H., Carbondale, Ill. Churn	327,620	Oct. 6	161	40	33	29
Teeter, Horace H., Carbondale, Ill. Filter	320,505	Nov. 3	106	28	33	525
Teeter, Abe L., Indianapolis, Ind. Grain-sifter	3 0,476	Jan. 6	396	110	30	76
Teets, William H., Allegheny, Pa. Wagon body	323,973	Aug. 11	765	214	32	674
Teetzal, William H., Detroit, Mich. Door-check	318,923	May 19	1868	501	31	883
Tefft, Pha, Oriental, Colo. Truss	319,346	June 2	501	128	31	1123
Tefft, Pha, Saguache, Colo. Windmill	325,025	Aug. 25	2213	007	32	956
Teggart, John, San Francisco, Cal. Conduit for underground electric wires	321,965	July 7	633	{ 163 164 }	32	115
Tegner, Albert J. V., Copenhagen, Denmark. Self-leveling ship's furniture	323,231	July 28	2486	660	32	476
Teichman, Isaac. (See Angell, Albert, assignor.)						
Teipel, Benjamin, Covington, Ky., assignor to Ligowsky Clay Pigeon Company, Cincinnati, Ohio. Target-trap	329,974	Nov. 10	747	191	33	651
Telegraphic Time Company. (See Bailey, Henry L., assignor.)						
Teller, John C., Palatka, Fla. Rotary engine	316,309	Apr. 21	1827	{ 480 481 }	31	344
Teller, Adalbert. (See Fabian and Teller.)						
Temple, Henry, Grand Rapids, Mich. Extensible step-ladder	317,884	May 12	1276	340	31	765

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Temple, John J., Kalamazoo, Mich. Ice-creeper	313,886	Mar. 17	1178	306	30	1612
Temple, Morris D., Chicago, Ill. Chain-pump-bucket	316,199	Apr. 21	1686	442	31	319
Temple, William J., Hampden, assignor of one-half to C. E. Hill, Bangor, Me. Swinging churn	329,689	Nov. 3	356	91	33	578
Temple, Winfield S., Sidney, Ill. Car-coupling	330,983	June 30	2706	736	31	1364
Ten Brook, Garrett L. (See Knowles, William, assignor.)						
Ten Eyck, Edward W., Elizabeth, N. J. Clamp for confining the ends of braid, ropes, &c.	316,310	Apr. 21	1628	481	31	345
Ten Eyck, James H., Auburn, N. Y. Hammock-support	315,354	Apr. 7	508	129	31	92
Tener, George E. (See McCarty, Tener, and McAfee.)						
Tener, George E. (See Withrow, Oliver, Wilcox, and Tener.)						
Tengvall, Axel O. (See Gorrings and Tengvall.)						
Tenney, Cornelius, assignor to C. Tenney Hardware Company, Brooklyn, N. Y. Rod for saw-frames	310,866	Jan. 13	898	243	30	175
Tenney Hardware Company, C. (See Tenney, Cornelius, assignor.)						
Tentschert, Florian. (See Krüznier and Tentschert.)						
Terberst, Frank A., Kansas City, Mo. Convertible skate	327,350	Sept. 29	2882	753	32	1568
Terhune, Richard H., Salt Lake City, Utah Ter. Slag and matte pot	323,541	Aug. 4	210	62	32	561
Terhune, Richard H., Salt Lake City, Utah Ter. Slag-pot	323,607	Aug. 4	295	84	32	576
Teriault, Octave J., Rutland, Vt. Necktie-fastener	331,098	Nov. 24	2210	598	33	949
Terman, James W., assignor of three-fourths to H. S. Butler, Des Moines, Iowa. Traction-engine	333,360	Dec. 29	3088	793	23	1367
Terpening, Clinton W., Bedford, Iowa. Hand-plow	325,775	Sept. 8	757	189	32	1162
Terrell, Elah, and W. H. Fish, Columbus, Ohio. Wall for the support of arches and bricks for the construction of the same	318,324	May 19	1869	501	31	884
Terrell, Henry D., Covington, Ga. Convertible plow	310,333	Jan. 6	238	65	30	45
Terrell, John L. (See Harrell, A. Frank, assignor.)						
Terry, Andrew J., assignor of one-half to E. F. Adams, San Francisco, Cal. Bolting-reel	312,672	Feb. 24	1636	457	30	692
Terry, Henry C., trustee. (See Yuncle and Stuerz, assignors.)						
Terry, Hiram, Bonham, Tex. Gate	331,168	Nov. 24	2314	626	33	967
Terry, James, Hartford, Conn. Internal bottle-stopper	320,098	June 16	1544	408	31	1345
Terry, James, Hartford, Conn. Removable bottle-stopper	320,191	June 16	1667	443	31	1367
Terry, James, Hartford, Conn. Internal bottle-stopper	320,192	June 16	1668	443	31	1367
Terry, Philo F., Green City, Mo. Hay-stacker	315,185	Apr. 7	291	69	31	32
Terry, Samuel H., Chicago, Ill. assignor, by mesne assignments, of one-half to A. W. and M. A. Nesbit, Fulton, Mo. Car for cable ways	329,786	Nov. 3	484	122	33	597
Terry, Titus B., Toledo, Ohio. Ornamenting shears and scissors	316,311	Apr. 21	1629	481	31	345
Terstegen, Fred, Elizabeth, N. J. Repeating attachment for watches	311,270	Jan. 27	1485	407	30	294
Terwilliger, Ora. (See Stoddard and Terwilliger.)						
Tesselman, John, Dayton, Ohio. Car-axle-box cover	321,664	July 7	337	90	32	64
Tesselman, John, and H. A. Billings, Dayton, Ohio. Railway-car	327,826	Oct. 6	432	112	33	76
Tewksbury, Andrew J., Haverhill, Mass. Wooden-soled shoe	315,573	Apr. 14	429	231	31	156
Textile Manufacturing Company. (See Moulton, George W., assignor.)						
Thacher, Edwin, Pittsburg, Pa. Bridge truss	310,747	Jan. 13	753	205	30	149
Thacher, Scott. (See Rawson, Isaac, assignor.)						
Thacher, Seth, Jr. (See Woodbury and Thacher.)						
Thackston, Richard D., assignor of one-half to M. I. Coe, St. Louis, Mo. Self-closing hatch-way	311,089	Jan. 20	1226	335	30	240
Thackston, Richard D., assignor of one-half to H. I. Coe, St. Louis, Mo. Self-closing hatch-way	311,090	Jan. 20	1226	336	30	240
Thackston, Richard D., assignor of one-half to H. I. Coe, St. Louis, Mo. Self-closing hatch-way	311,091	Jan. 20	1227	336	30	240
Thackston, Richard D., assignor of one-half to H. I. Coe, St. Louis, Mo. Self-closing hatch-way	315,062	Apr. 7	131	31	31	26
Thackston, Richard D., assignor of one-half to H. I. Coe, St. Louis, Mo. Self-closing hatch-way	328,361	Oct. 13	1109	267	33	210
Thackston, Richard D., assignor of one-half to H. I. Coe, St. Louis, Mo. Self-closing hatch-way	328,362	Oct. 13	1109	267	33	210
Thain, Richard S., Oak Park, Ill. Combination ruler and paper-cutter	325,992	Sept. 8	1024	260	32	1211
Thal, Samuel, Milwaukee, Wis. Shirt	322,592	July 21	1488	391	32	266
Thatcher, Charles D., Springfield, Ohio. Cap-headed screw-nut	322,867	July 21	1966	520	32	373
Thatcher, Frederick B., Bridgeport, Conn., assignor to Aetna Stopper Company, Pawtucket, R. I. Bottle-stopper	313,253	Mar. 3	393	79	30	835
Thatcher, Thomas, Utica, N. Y., assignor of one-half to W. Dawson, Scranton, Pa. Car-axle end-bearing	313,252	Mar. 3	392	79	30	835
Thatcher, Thomas, Utica, N. Y., assignor of one-half to W. Dawson, Scranton, Pa. Car-axle box	313,520	May 26	2135	575	31	948
Thau, Henry, et al. (See Wood, Frank B., assignor.)						
Thaxter, George E., Boston, Mass. Knob locking and releasing mechanism for locks	315,186	Apr. 7	394	70	31	72
Thaxter, William S., Oakland, Cal. Azimuth attachment to compasses	327,551	Sept. 29	2283	753	32	1568
Thayer, Adelbert R., Cheboygan, Mich. Stopper	318,325	May 19	1870	502	31	884
Thayer, Anson P., Brooklyn, N. Y. Making barbed metallic fencing	315,085	Apr. 7	133	31	31	26
Thayer, Anson P., assignor to T. W. Hall, Brooklyn, N. Y. Die for making barbed strips	310,622	Jan. 13	591	163	30	119
Thayer, Anson P., assignor to T. W. Hall, Brooklyn, N. Y. Die for making barbed fencing	311,150	Jan. 20	1309	360	30	255
Thayer, Anson P., assignor to T. W. Hall, Brooklyn, N. Y. Die for making barbed fencing	312,404	Feb. 17	1294	357	30	605
Thayer, Anson P., assignor to T. W. Hall, Brooklyn, N. Y. Die for making barbed fencing	313,031	Feb. 24	2138	581	30	766
Thayer, Anson P., assignor to T. W. Hall, Brooklyn, N. Y. Making metal fence-barbs	315,084	Apr. 7	131	31	31	26
Thayer, Anson P., assignor to T. W. Hall, Brooklyn, N. Y. Die for making metallic fence-barbs	315,086	Apr. 7	134	31	31	26
Thayer, Anson P., assignor to T. W. Hall, Brooklyn, N. Y. Die for making metallic fence-barbs	315,087	Apr. 7	135	32	31	26
Thayer, Anson P., assignor to T. W. Hall, Brooklyn, N. Y. Die for making barbed metallic fencing	320,825	June 23	2543	673	31	1537
Thayer, Charles F. and J. Lowe, assignors to Rhode Island Metal Company, Providence, R. I. Making nails	318,839	May 26	2551	679	31	1014
Thayer, Charles G., assignor of one-half to O. M. Gawnie, Fredonia, N. Y. Bicycle	312,930	Feb. 24	1995	546	30	741
Thayer, Ellis T., Charleston, W. Va. Self-oiling car-wheel	317,243	May 5	485	107	31	601
Thayer, Frank W., and A. S. Mowell, Milwaukee, Wis. Journal-bearing	314,079	Mar. 17	1411	368	30	1657
Thayer, George B. (See Tobey and Thayer.)						
Thayer, George B., Boston, Mass. Register for street-railway cars	310,921	Jan. 20	960	266	30	195
Thayer, Horace N. (See Bostwick and Thayer.)						
Thayer, Isaac, San Francisco, Cal. Machine for crushing and pressing grapes	319,640	June 9	916	242	31	1225

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Thayer, James F., Providence, R. I. Button-fastener	321,665	July 7	338	90	32	64
Thayer, James F., Providence, R. I. Button-attaching instrument	322,655	July 21	1675	444	32	320
Thayer, James F., Providence, R. I. Cutting staples	322,997	July 23	2160	573	32	416
Thayer, James F., Providence, R. I. Fastener	324,895	Aug. 25	2043	559	32	924
Thayer, James F., Providence, R. I. Button-fastener	332,967	Dec. 22	2479	656	33	1463
Thayer, James F., Providence, R. I. Button-fastener	332,968	Dec. 22	2480	657	33	1463
Thayer, James F., Providence, R. I. Button-fastener	332,969	Dec. 22	2481	657	33	1463
Thayer, James F., Providence, R. I. Button-fastener	332,970	Dec. 22	2482	657	33	1463
Thayer, John C., Chicago, Ill. Attachment for lubricators	320,312	June 16	1860	488	31	1401
Thayer, Marion F., and J. S. Smith, Westborough, Mass. Rake	322,022	July 14	844	220	32	162
Thayer, Orlando A., Paris, Me. Folding table	320,413	June 16	2017	529	31	1429
Thayer Portable Refrigerator Company. (See Thayer, William C., assignor.)						
Thayer, Russell, Philadelphia, Pa. Disinfecting apparatus	311,271	Jan. 27	1496	408	30	296
Thayer, Russell, assignor to Philadelphia Drainage Construction Company, (limited,) Philadelphia, Pa. Trap for drain-pipes	319,529	June 9	759	203	31	1197
Thayer, William C., Bainbridge, N. Y. Pendulum-level	317,885	May 12	1277	340	31	766
Thayer, William C., Chicago, Ill. Lamp	318,521	May 26	2136	575	31	942
Thayer, William C., assignor to Thayer Portable Refrigerator Company, Chicago, Ill. Portable refrigerator	333,264	Dec. 29	2911	761	33	1545
Thayer, William S., Owego, N. Y. Box-fastening	322,868	July 21	1967	592	32	373
Thayer, William S., assignor of one-half to C. M. Haywood, Owego, N. Y. Boltless railway-joint	319,641	June 9	917	242	31	1225
Thayer, William S., assignor of one-half to J. J. Van Kleeck, Owego, N. Y. Device for lowering coffins	319,642	June 9	918	242	31	1226
Thebaud, Delphin E. (See Stephens, John G., assignor.)						
Thede, Herman G. (See Bolte and Thede.)						
Thede, John W. (See Bolte and Thede, assignors.)						
Theinert, Charles, and S. Christiansen, New York, N. Y. Making plush articles of clothing	326,348	Sept. 15	1621	395	32	1311
Thels, Leonard, Cabery, Ill. Cultivator attachment	320,984	June 30	2767	735	31	1584
Thels, Leonard, Cabery, Ill. Harrow	324,896	Aug. 25	2044	559	32	925
Thelsen, Eduard, Lindenau, near Leipzig, Saxony, Germany. Evaporating and condensing apparatus	332,848	Dec. 22	2312	611 612 613	33	1431
Therkelsen, Anders, and J. G. A. Bruun, Copenhagen, Denmark. Governor	316,848	Apr. 28	2591	677	31	489
Thew, Walter H., Liverpool, county of Lancaster, England. Condensed peptonized milk	323,754	June 30	2767	484	32	614
Thew, Walter H., Liverpool, county of Lancaster, England. Condensing peptonized milk	324,048	Aug. 11	866		32	691
Thew, Walter H., Liverpool, county of Lancaster, England. Condensed peptonized milk with cocoa	324,049	Aug. 11	868		32	691
Thew, Walter H., Liverpool, county of Lancaster, England. Condensed peptonized milk with coffee	324,050	Aug. 11	868		32	691
Thickins, John C., Hinsdale, Mass. Automatic oiler for lubricating wool	324,612	Aug. 18	1642	452 453	32	843
Thiel, Henry, Clinton, La. Cotton-stalk chopper	331,922	Dec. 8	1011	262	33	1187
Thielsen, Hans, Portland, Ore. Railway cross-tie	317,244	May 5	426	107	31	601
Thielsen, Hans, and H. W. Dilg, Portland, Ore. Divided car-axle	329,604	Nov. 3	248	64	33	552
Thierfelder, Albrecht, Albany, N. Y. Steam-engine governor	317,592	May 12	894	225	31	693
Thiery, Hector, Paris, France. Apparatus for propelling fluids	314,489	Mar. 24	1968	524	30	1168
Thies, John B., assignor of one-half to C. Wight & Son, Dayton, Ohio. Machine for manufacturing picket-fences	316,849	Apr. 28	2593	677 678	31	489
Thies, John B., assignor of one-half to C. and H. C. Wight, Dayton, Ohio. Measuring device and register for fencing material	327,905	Oct. 6	513	133	33	92
Thiasell, George W., Winters, Cal. Codding-moth trap and tree-protector	333,211	Dec. 29	2913	762	33	1545
Thode, George W. (See Knight and Thode.)						
Thode, Gustav A., Holstein, Iowa. Upright steam-boiler	324,188	Aug. 11	1059	290	32	727
Thoms, Burchard, New Orleans, La. Vacuum-pump	329,241	Oct. 27	2342	606	33	448
Thoms, Burchard, assignor to J. S. McDonald, New Orleans, La. Hydraulic-pressure regulator and ram	322,730	Oct. 20	1619	421	33	309
Thoman, Henry, Leesville Cross Roads, Ohio. Scraper for wheels of wheat-drills	330,169	Nov. 10	1008	263	33	705
Thomas, Abner D., Little Rock, Ark. Cotton-elevator and cotton-gin feeder	331,841	Dec. 8	887	229	33	1164
Thomas, Albert D., Keokuk, Iowa. Brick-machine	315,855	Apr. 14	1212	317	31	227
Thomas, Anthony W., Bedford, Ind. Harrow	311,544	Feb. 3	118	35	30	371
Thomas, Arnold, et al. (See Tickle and Leonard, assignors.)						
Thomas, Benjamin F., Camden, Ind. Excavator	318,326	May 19	1870	502	31	884
Thomas, Charles. (See Combs, John, assignor.)						
Thomas, Charles M., Buffalo, N. Y. Elevator-bucket	320,897	June 23	2642	701	31	1555
Thomas, Chauncy, Boston, Mass. Device for operating carriage-doors	328,731	Oct. 20	1619	422	33	310
Thomas Clock Company, Seth. (See Norton, Charles H., assignor.)						
Thomas Clock Company, Seth. (See Reinecke, Herman A. T., assignor.)						
Thomas, Daniel. (See O'Brien, John, assignor.)						
Thomas, David S., North Platte, Nebr. Fire-escape	314,628	Mar. 31	2151	572	30	1227
Thomas, Eddy T., New York, N. Y., assignor to New Home Sewing Machine Company, Orange, Mass. Sewing-machine	310,477	Jan. 6	398	110	30	77
Thomas, Eddy T., and A. Schenck, New York, N. Y. Belt-applying device for sewing and other machines	324,432	Aug. 18	1404	383	32	709
Thomas, Edmund M., Milwaukee, Wis. Exhaust attachment for steam-engines	319,759	June 9	1060	282	31	1252
Thomas, Edward W., Lowell, assignor of one-half to G. Draper & Sons, Hopedale, Mass. Device for removing pressure from rolls of spinning-frames, &c.	329,975	Nov. 10	747	191	33	651
Thomas, Eleazer, Pawtucket, R. I. Spinning-machine	318,522	May 26	2137	575	31	943
Thomas, Frank A., Cedar Rapids, Iowa. Hammock-spreader	329,690	Nov. 3	358	91	33	573
Thomas, Frederic R. H., Hudson, N. Y. Soda-water apparatus	312,588	Feb. 17	1550	422	30	633
Thomas, George C., Waterbury, Conn. Lamp-fixture	314,080	Mar. 17	1412	368	30	1057
Thomas, George C., Waterbury, Conn. Nut-locking washer	331,169	Nov. 24	2315	627	33	968
Thomas, George E., Abingdon, Va. Pole and shaft coupling	319,348	June 2	503	137	31	1144
Thomas, George H., Chicopee Falls, Mass. Egg-beater	331,662	Dec. 1	628	155	33	1106
Thomas, George J., Newton, Mass. Shutter-fastener	323,232	July 28	2487	660	32	476
Thomas, George N., et al. (See Brown, Hiram L., assignor.)						
Thomas, George W., assignor of one-half to J. A. Wright, Baltimore, Md. Parcel-carrier	323,233	July 28	2488	661	32	476
Thomas, Henry O., Fremont, Nebr. Wire gate	325,219	Aug. 25	2466	678	32	1004
Thomas, Horatio, Chicago, Ill. Roller-skate	332,460	Dec. 15	1764	462	33	1327
Thomas, Hugh, New York, N. Y. Device for attaching music-sheets to rollers	327,038	Sept. 29	2465	644	32	1495
Thomas, James F., Denver, Colo. Chair-socket	325,026	Aug. 25	2214	607	32	956

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Thomas, John. (See Lentz, David H., assignor.)						
Thomas, John, <i>et al.</i> (See Saylor, Louis S., assignor.)						
Thomas, John, assignor to L. F. Marsh, Bristol, England. Sewing-machine	327,352	Sept. 29	2884	753 754	32	1568
Thomas, John, assignor to L. F. Marsh, Bristol, England. Finishing or binding the edges of hat-brims	327,353	Sept. 29	2887	754	32	1569
Thomas, John, assignor to L. F. Marsh, Bristol, England. Hat	327,354	Sept. 29	2888	754	32	1569
Thomas, John H., Springfield, Ohio. Apparatus for bending metal bars	312,303	Feb. 17	1161	318	30	579
Thomas, John H., Springfield, Ohio. Tedder	315,856	Apr. 14	1217	317 318	31	228
Thomas, John H., Springfield, Ohio. Hay-tedder	316,498	Apr. 28	2102	552	31	399
Thomas, John H., Springfield, Ohio. Apparatus for straightening crank-shaft journals	317,593	May 12	895	229	31	683
Thomas, John H., Springfield, Ohio. Horse hay-rake	317,594	May 12	896	230	31	693
Thomas, John H., Springfield, Ohio. Tedder-fork	319,864	June 9	1215	321	31	1278
Thomas, John H., Springfield, Ohio. Tedder-fork	329,242	Oct. 27	2343	607	33	448
Thomas, John H., Springfield, Ohio. Hay-tedder	329,506	Nov. 3	107	28	33	525
Thomas, John H., Springfield, Ohio. Hay-tedder	329,976	Nov. 10	748	191	33	651
Thomas, John H., Springfield, Ohio. Hay-tedder	329,977	Nov. 10	749	191	33	652
Thomas, John W., <i>et al.</i> (See Crocker, John B., assignor.)						
Thomas, Joseph, New York, N. Y. Supporting and guiding attachment for sewing-machines	330,170	Nov. 10	1009	264	33	705
Thomas, Joseph H., Newark, N. J. Device for severing finger-rings	328,154	Oct. 13	842	219	33	159
Thomas, Joseph W. (See Offutt, Joseph E., assignor.)						
Thomas, Josephine. (See Rivers, Thomas L., assignor.)						
Thomas, Joshua, Cleveland, Ohio. Apparatus for refining oils	314,490	Mar. 24	1969	524	30	1168
Thomas, Levi H., Chicago, Ill. Paper package	331,842	Dec. 8	898	230	33	1165
Thomas, Levi H., Chicago, Ill. Ink-bottle	331,843	Dec. 8	899	230	33	1165
Thomas, Levi H., Chicago, Ill. Blining package	331,844	Dec. 8	891	230	33	1165
Thomas, Mahlon S., Philadelphia, Pa. Parlor game apparatus	324,189	Aug. 11	1060	200	32	727
Thomas, Manly, Orinda, Mo. Feed-rack	314,273	Mar. 24	1671	444	30	1113
Thomas, Nicholas, Chicago, Ill. Lathe for turning cross-head pins	322,212	July 14	1090	283	32	207
Thomas, Robert H. (See Armstrong and Thomas.)						
Thomas, Simon S., Davisborough, Ga. Book-holder	316,499	Apr. 28	2104	552	31	399
Thomas, William, Brooklyn, N. Y. Steam-box for fixing dyes	314,629	Mar. 31	2153	572	31	1228
Thomas, William, Pittston, Pa. Device for feeding air to furnaces	315,187	Apr. 7	295	70	31	53
Thomas, William, Jersey City, N. J. Pipe-cleaning apparatus	323,542	Aug. 4	211	62	32	561
Thomas, William, Jersey City, N. J. Pneumatic annunciator	324,500	Aug. 18	1469	408	32	814
Thomas, William B., Athens, Ga. Freight-checking device	329,345	Oct. 27	2497	643	33	470
Thomas, William H., Fulton, Mo. Wagon-bed lifter	312,038	Feb. 10	722	213	30	501
Thomas, William M., assignor of one-half to Grand Rapids Electric Light and Power Company, Grand Rapids, Mich. Cut-out for electric lamps	312,529	Feb. 17	1474	403	30	637
Thomas, William M., assignor of one-half to Grand Rapids Electric Light and Power Company, Grand Rapids, Mich. Circuit for systems of electric lighting	312,589	Feb. 17	1552	422	30	653
Thomas, William M., assignor of one-half to Grand Rapids Electric Light and Power Company, Grand Rapids, Mich. Governor for electric motors, &c	316,500	Apr. 28	2104	553	31	399
Thomas, William M., assignor of one-half to Grand Rapids Electric Light and Power Company, Grand Rapids, Mich. Automatic cut-out for incandescent lamps	316,501	Apr. 28	2106	553	31	400
Thomas, William M., assignor of one-half to Grand Rapids Electric Light and Power Company, Grand Rapids, Mich. Electric cut-out	316,502	Apr. 28	2107	554	31	400
Thomas, William M., assignor of one-half to Grand Rapids Electric Light and Power Company, Grand Rapids, Mich. System of electric lighting	319,347	June 2	501	136 137	31	1143
Thomas, William M., assignor of one-half to Grand Rapids Electric Light and Power Company, Grand Rapids, Mich. Electric-arc lamp	332,971	Dec. 22	2483	657	33	1464
Thomas, William P., and E. J. Frost, Philadelphia, Pa. Insulated electrical conductor	312,405	Feb. 17	1295	358	30	605
Thomas, William Y., assignor of one-third to W. B. Culver, West Pittston, Pa. Lubricator	325,578	Sept. 1	483	121	32	1108
Thomassen, Francois. (See Peck and Thomassen.)						
Thommen, Adolph, New York, N. Y. Pin-tongue for breastpins	323,543	Aug. 4	213	63	32	561
Thompson, Arthur. (See Elliott, William T., assignor.)						
Thompson, Arthur G., <i>et al.</i> (See Fowler, Thaddeus, assignor.)						
Thompson, Cassius C., East Liverpool, Ohio. Machine for forming pottery and glassware and finishing or turning the same	319,760	June 9	1062	282	31	1253
Thompson, Cassius C., East Liverpool, Ohio. Bed-pan	322,503	July 21	1488	391	32	266
Thompson, Charles, Alhambra, Iowa. Corn-planter	312,931	Feb. 24	1996	546	30	741
Thompson, Charles A., Flushing, N. Y. Exhaust-nozzle	320,016	June 16	1435	377	31	1323
Thompson, Charles A., Hopkinsville, Ky. Cartridge-loader	326,693	Sept. 23	1963	516	32	1399
Thompson, Charles D. (See Thompson, Mary E., assignor.)						
Thompson, Colin M., and C. R. Eberle, Brooklyn, N. Y. Electrical conductor	312,673	Feb. 24	1657	457	30	629
Thompson, Daniel, Ovid, Mich., assignor to Derby & Ball, Bellows Falls, Vt. Scythensmith fastening	328,363	Oct. 13	1110	288	33	210
Thompson, Daniel L., <i>et al.</i> (See Boscowen, William, assignor.)						
Thompson, Daniel L., <i>et al.</i> (See Odell, Benjamin C., assignor.)						
Thompson, Don S., assignor to West Haven Buckle Company, West Haven, Conn. Garter-elastic	311,691	Feb. 3	304	83	30	406
Thompson, Edward H. (See Thompson, Francis and E. H.)						
Thompson, Edward P. (See Stanley and Thompson.)						
Thompson, Edward P., Elizabeth, N. J. Carbonizing filaments for incandescent electric lamps	331,663	Dec. 1	630	155	33	1108
Thompson, Edward P., Elizabeth, N. J., assignor of three-fourths to E. P. Roberts and G. H. Pierce, Cheyenne, Wyo. Ter. Apparatus for the separation of gold from its ores by electro-chlorination and deposition	317,245	May 5	427	107	31	601
Thompson, Edward P., Elizabeth, N. J., assignor of three-fourths to E. P. Roberts and G. H. Pierce, Cheyenne, Wyo. Ter. Apparatus for the electro-deposition of gold from its chlorides	317,246	May 5	432	108	31	602
Thompson, Edward P., Elizabeth, N. J., assignor of three-fourths to E. P. Roberts and G. H. Pierce, Cheyenne, Wyoming Ter. Apparatus for the separation of gold from its ores by chlorination	323,755	Aug. 4	485	137	32	614
Thompson, Francis and E. H., Allegheny, Pa. Cigar-bunching machine	318,669	May 26	2331	622	31	577
Thompson, Frank. (See Kenyon, John W., assignor.)						
Thompson, Frederick W. (See Campany, Milton E., assignor.)						
Thompson, George A., Washington, Mo. Broom	330,439	Nov. 17	1368	364	33	781
Thompson, George C., assignor to himself, J. L. Foster, and W. S. Mallard, Darien, Ga. Car-coupling	331,218	Nov. 24	2391	647	33	980
Thompson, George H., Frostburg, Md., assignor to H. D. Huff and C. Brinton, Chicago, Ill. Roller-skate	319,530	June 9	760	203	31	1197

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Thompson, George K., Malden, assignor to American Bell Telephone Company, Boston, Mass. Flexible tip for conducting cords.....	317,887	May 12	1279	340	31	766
Thompson, George W., Shickshinny, Pa. Sleigh-runner.....	323,234	July 28	2458	661	32	476
Thompson, George W., Shickshinny, Pa. Pulley.....	327,120	Sept. 29	2577	672	32	1514
Thompson, H. Grant, <i>et al.</i> (See Fowler, Thaddcus, assignor.)						
Thompson, Harry G., <i>et al.</i> (See Mower, Samuel E., assignor.)						
Thompson, Henry A., Farmington, Me. Protector for cow-milkers.....	317,045	May 5	146	37	31	549
Thompson, Henry G., (See Mower, Samuel E., assignor.)						
Thompson, Henry G., <i>et al.</i> (See Fowler, Thaddcus, assignor.)						
Thompson, Henry G., <i>et al.</i> (See Mower, Samuel E., assignor.)						
Thompson, Homer P., Cincinnati, Ohio. Automatic circuit-closer for telegraph-keys.....	322,023	July 14	845	220	32	162
Thompson, Horace W. (See Johnson, Charles C., assignor.)						
Thompson, James, Boston, Mass. Wind-guard for velocipede-boats.....	314,491	Mar. 24	1970	524	30	1168
Thompson, James M., Garrison, Iowa. Clover-huller.....	317,505	May 12	897	230	31	694
Thompson, Jasper, Forest City, Iowa. Device for preventing horses getting their tails over the lines.....	313,254	Mar. 3	325	80	30	835
Thompson, Jesse, Rushville, Ind. Swinging gate.....	329,978	Nov. 10	751	192	33	652
Thompson, Jesse B., assignor of one-fifth to C. W. Ballard, Chicago, Ill. Nut-lock.....	332,972	Dec. 22	2426	658	33	1464
Thompson, John, assignor to Bucyrus Foundry and Manufacturing Company, Bucyrus, Ohio. Friction-clutch.....	316,200	Apr. 21	1626	443	31	320
Thompson, John C., East Liverpool, Ohio. Lid for tea-pots, jugs, &c.....	310,478	Jan. 6	359	111	30	77
Thompson, John H., assignor of one-half to Gilliland Manufacturing Company, Indianapolis, Ind. Roller-skate.....	322,504	July 21	1429	391	32	286
Thompson, John P., Phoenix, Md. Loom-shuttle.....	319,866	June 9	1218	321 322	31	1279
Thompson, Joseph M. (See Gourrier and Thompson.)						
Thompson, Joseph W., assignor of one-half to Buckeye Engine Company, Salem, Ohio. Steam-engine governor.....	310,479	Jan. 6	400	111	30	77
Thompson, Joseph W., assignor of one-half to Buckeye Engine Company, Salem, Ohio. Steam-engine governor.....	314,353	Mar. 24	1721	474	30	1134
Thompson, La Marcus A., South Chicago, Ill. Roller coasting structure.....	310,966	Jan. 20	1048	285	30	207
Thompson, La Marcus A., Philadelphia, Pa. Gravity switch-back railway.....	332,762	Dec. 22	2207	582	33	1412
Thompson Manufacturing Company, N. C. (See Macphail, James, assignor.)						
Thompson, Mark, and J. Kucher, Athens, Pa. Animal-power.....	314,492	Mar. 24	1971	524 525	30	1168
Thompson, Mark S., assignor to R. H. Martin, New York, N. Y. Treating asbestos to form crucibles, &c.....	330,171	Nov. 10	1010		33	705
Thompson, Mark S., assignor to H. A. Lee, New York, N. Y. Device for feeding salt or compressed feed to cattle.....	332,973	Dec. 22	2427	658	33	1464
Thompson, Mary E., assignor of one-half to C. D. Thompson, New York, N. Y. Portable dust hood or blower.....	328,067	Oct. 13	760	198	33	143
Thompson, Melchisedeck, Y., Arkadelphia, Ark. Motor for sewing-machines.....	316,850	Apr. 28	2504	678	31	490
Thompson, Nathan, 23 Southampton Buildings, county of Middlesex, England. Union or coupling for pipes, hose, and other articles.....	331,170	Nov. 24	2316	627 628	33	968
Thompson & Norris. (See Peer, John A., assignor.)						
Thompson, Orrin B., Jersey, Ohio. Device for overcoming dead-centers.....	318,631	May 26	2551	679	31	1014
Thompson, Orrin B., Jersey, Ohio. Device for overcoming dead-centers and starting fly-wheels.....	327,355	Sept. 29	2289	754	32	1509
Thompson, Orrin B., Jersey, Ohio. Device for treadle mechanisms.....	328,225	Oct. 20	1726	449	33	331
Thompson, Perley & Waite. (See Odell, Benjamin C., assignor.)						
Thompson, Perley & Waite. (See Perley, Charles A., assignor.)						
Thompson, Rachel S., Hamilton, Ohio. Caster.....	331,461	Dec. 1	297	40	33	1051
Thompson, Ralph, assignor of one-half to H. A. Winemann, Detroit, Mich. Combined pencil and scissors holder.....	328,886	Oct. 20	1777	464	33	339
Thompson, Richard H. S., New York, N. Y. Electric primer.....	323,974	Aug. 11	766	214	32	674
Thompson, Robert A., Montrose, Mo. Sulky-plow.....	322,331	July 14	1232	323	32	235
Thompson, Robert H., Brooklyn, N. Y. Fabric for decoration.....	311,388	Jan. 27	1636		30	325
Thompson, Robert H., Brooklyn, N. Y. Fabric for decoration.....	311,389	Jan. 27	1637		30	325
Thompson, Robert H., Brooklyn, N. Y. Lining for carpets.....	311,390	Jan. 27	1638		30	325
Thompson, Robert J. (See Corckran and Thompson.)						
Thompson, Robert S., Pine Bluff, Ark. Hoe-rack.....	331,011	Nov. 24	2101	568	33	928
Thompson, Robert W., East Rockport, Ohio. Car-starter.....	316,417	Apr. 21	1968	522	31	372
Thompson, Sherman T., and W. B. Richards, Adams, N. Y. Combined punching and flanging machine.....	318,221	May 19	1729	402	31	859
Thompson, Silvanus P., Bristol, England. Telephonic apparatus.....	327,837	Oct. 6	433	113	33	76
Thompson, Thomas. (See Johnson and Thompson.)						
Thompson, Thomas H., assignor to Sigourney Tool Company, Hartford, Conn. Drilling-machine.....	317,886	May 12	1277	340	31	766
Thompson, Thomas H., assignor to Sigourney Tool Company, Hartford, Conn. Friction-clutch.....	319,867	June 9	1219	322	31	1279
Thompson, Walter C., Brooklyn, assignor to W. C. Howard, New York, N. Y. Show-box.....	327,838	Oct. 6	434	113	33	76
Thompson, Willett, <i>et al.</i> (See Angell, Thomas, assignor.)						
Thompson, William. (See Arnold and Thompson.)						
Thompson, William A. J. (See Grooms, James M., assignor.)						
Thompson, William G., Brooklyn, N. Y. Grappling-bucket.....	321,159	June 30	2994	794	31	1625
Thompson, William G., New York, N. Y. Sewer-gas trap.....	330,529	Nov. 17	1464	397	33	803
Thompson, William G., Brooklyn, assignor to himself and E. L. Hayward, Port Richmond, N. Y. Grappling-bucket.....	321,158	June 30	2992	794	31	1625
Thompson, William H., Luling, Tex. Ant-trap.....	331,099	Nov. 24	2211	599	33	949
Thompson, William W., Orient, N. Y. Check-rein attachment.....	320,724	June 23	2424	642	31	1514
Thoma, James F., administrator. (See Hagan, John A.)						
Thomsen, Peter. (See Meister, Carl, assignor.)						
Thomson, Elihu, Lynn, Mass. Electric lamp.....	320,018	June 16	1439	378	31	1325
Thomson, Elihu, Lynn, Mass. Lightning-arrester.....	321,464	July 7	77	21	32	16
Thomson, Elihu, Lynn, Mass. System of electric distribution.....	322,138	July 14	1003	261	32	191
Thomson, Elihu, Lynn, Mass. System of electric distribution.....	322,139	July 14	1005	261	32	191
Thomson, Elihu, Lynn, Mass. Automatic commutator-adjuster for dynamo-electric machines.....	323,976	Aug. 11	770	215	32	675
Thomson, Elihu, Lynn, Mass. Regulator for dynamo-electric machines.....	324,501	Aug. 18	1491	408	32	815
Thomson, Elihu, Lynn, Mass. Electric-arc lamp.....	324,502	Aug. 18	1493	408	32	815
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electric lighting system.....	321,461	July 7	69	20	32	16
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electric switch.....	321,463	July 7	75	21	32	16

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Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Dynamo-electric or electro-dynamic machine.	323,975	Aug. 11	768	{ 214 215 }	32	675
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Safety device for electrical circuits.	327,039	Sept. 29	2466	644	32	1495
Thomson, Elihu, and E. W. Rice, New Britain, Conn., assignors to Thomson-Houston Electric Company, of Connecticut. Cut-out for electric circuits.	320,017	June 16	1436	377	31	1325
Thomson, George, and W. Kemp, Elizabeth, N. J. Purifying sulphuric acid.	314,548	Mar. 24	2041	.....	39	1181
Thomson-Houston Electric Company. (See Maillonx, C. Odilon, assignor.)						
Thomson-Houston Electric Company. (See Thomson, Elihu, assignor.)						
Thomson-Houston Electric Company. (See Thomson and Rice, assignors.)						
Thomson, J. E. (See Hay, John, assignor.)						
Thomson, John. (See Barton and Thomson.)						
Thomson, John, Brooklyn, N. Y. Diaphragm fluid-meter.	318,327	May 19	1872	503	31	884
Thomson, John, Brooklyn, N. Y. Filter.	320,985	June 30	2768	{ 735 736 }	31	1584
Thomson, John, Brooklyn, N. Y. Mechanical movement.	331,845	Dec. 8	891	230	33	1165
Thomson, John, Brooklyn, N. Y. Mechanical movement.	331,846	Dec. 8	892	231	33	1165
Thomson, John, Brooklyn, N. Y. Mechanical movement.	331,847	Dec. 8	894	231	33	1166
Thomson, John R. (See Nunamacker, By, assignor.)						
Thomson, Judson L. (See Unbehend, Jacob J., assignor.)						
Thomson, Judson L., et al. (See Unbehend, Jacob J., assignor.) (Reissue.)						
Thomson, Judson L., Syracuse, N. Y. Shoe-clasp.	313,255	Mar. 3	325	80	30	835
Thomson, Judson L., Syracuse, N. Y. Attaching shoe-clasps.	313,256	Mar. 3	327	80	30	835
Thomson, Judson L., Syracuse, N. Y. Spring-clasp.	313,257	Mar. 3	327	81	30	835
Thomson, Judson L., and J. J. Unbehend, Syracuse, N. Y.; said Unbehend assignor to said Thomson. Shoe-clasp.	313,385	Mar. 3	485	127	30	867
Thomson, Peter G. (See Stranders, Walter, assignor.)						
Thomson, Rush, assignor to W. S. Thomson, Atlanta, Ga. Cotton-planter.	330,440	Nov. 17	1369	365	33	781
Thomson, William, Glasgow, county of Lanark, Scotland. Dynamo-electric machine.	333,174	Dec. 29	2751	728	33	1521
Thomson, William S. (See Hackett, William H., assignor.)						
Thomson, William S. (See Thomson, Rush, assignor.)						
Thomson, William Y., et al. (See Quaid, Harrison, assignor.)						
Thorman, Simon R., et al. (See Russet, Charles F., assignor.)						
Thormann, Franz, and L. Von Bonhorst, Wiesbaden, Germany. Comb.	327,356	Sept. 29	2891	755	32	1569
Thorn, Frank M., Orchard Park, N. Y. Potato-digger.	327,357	Sept. 29	2892	755	32	1570
Thorn, John H., Youngstown, Ohio. Measuring-pump.	321,061	June 30	2875	764	31	1603
Thorn, John H., Youngstown, Ohio. Liquor-pump.	332,171	Dec. 8	1373	355	33	1251
Thorn Wire Hedge Company. (See Briggs, Orlando P., assignor.)						
Thornberry, Henry S., Boston, Mass. Telephone-circuit.	317,888	May 12	1220	341	31	766
Thornberry, Henry S., Boston, Mass. Telephone-circuit.	320,414	June 16	2018	530	31	1430
Thornberry, Henry S., assignor to American Bell Telephone Company, Boston, Mass. Telephone-transmitter.	321,323	June 30	3193	851	31	1663
Thornburg, John H., Harrisville, Ind. Mechanical motor.	318,532	May 26	2552	620	31	1015
Thornburgh, George W. and J. J. Alliance, Ohio. Egg-tray for incubators.	330,528	Nov. 17	1483	307	33	803
Thornburgh, John J. (See Thornburgh, George W. and J. J.)						
Thornhill, Edward. (See Thornhill, Forknall, and Thornhill.)						
Thornhill, James E. S., Beswick, T. Forknall, Fairfield, and E. Thornhill, Ardwick, county of Lancaster, England. Railway-carriage.	320,601	June 23	2268	600	31	1485
Thornton, Albert E., Atlanta, Ga. Treating oleaginous seeds for the extraction of oil.	312,674	Feb. 24	1658	.....	30	682
Thornton, Albert O., Olneyville, N. J. Farm-gate.	330,939	Nov. 24	2014	544	33	912
Thornton, Amédée, Chelsea, county of Middlesex, assignor of one-half to W. Paine, 2 Garden Road, Clapham, county of Surrey, England. Bit for horses.	314,081	Mar. 17	1412	369	30	1057
Thornton, Hiram W., Millersburg, Ill. Constructing roads.	323,066	July 28	2228	605	32	439
Thornton, John, Cleckheaton, county of York, England. Apparatus for hardening and tempering wire.	323,087	July 28	2229	605	32	439
Thornton, John C., Mount Vernon, Ind. Apparatus for cleaning oils.	313,693	Mar. 10	883	330	30	952
Thornton & Parham. (See Parham, George J., assignor.)						
Thornton, Thomas, Tidouste, Pa. Spark-arrester.	332,028	Dec. 15	2007	{ 526 527 530 }	33	1369
Thoroughgood, John E., assignor of three-fourths to J. Wischart, Des Moines, and I. W. Johnson, Osceola, Iowa. Apparatus for heating street-cars and other vehicles.	311,151	Jan. 20	1310	{ 361 362 }	30	255
Thorp, James M. (See Lane and Thorp.)						
Thorp, Justus W., assignor to himself and J. E. Hensley, Dayton, Wash. Ter. Water-elevator.	327,205	Sept. 29	2693	{ 699 700 }	32	1536
Thorp, Thomas. (See Bower and Thorp.)						
Thorp, Thomas, Whitefield, county of Lancaster, England. Gas-burner.	314,630	Mar. 31	2155	573	30	1298
Thorwarth, John B., and W. Tunstall, Jr., Brooklyn, N. Y. Bobbin.	327,772	July 7	496	131	32	93
Thoubberon, James, Brooklyn, N. Y. Manufacturing show-cards.	326,174	Sept. 15	1273	327	32	1264
Thrash, William R., Selma, Ala. Loom-picker.	322,140	July 14	1008	262	32	199
Throckmorton, John A., Sidney, Ohio. Folding bath-tub.	314,752	Mar. 31	2307	613	30	1257
Thumshirn, George, assignor to Branford Lock Works, Branford, Conn. Sash-fastening.	313,258	Mar. 3	328	81	30	836
Thunder, George H. A. (See Smith and Marshall, assignors.)						
Thurber, Isaac L. (See Rice, Steiger, and Thurber.)						
Thurber, Whyland & Co. (See Clawson, Clement C., assignor.)						
Thurlow, Winfield S., Boston, Mass. Lever-buckle.	318,053	May 19	1516	406	31	818
Thurman, Pleasant M. and W. T. Clarence, Mo. Device for removing wagon-bodies.	316,851	Apr. 28	2596	678	31	490
Thurman, William T. (See Thurman, Pleasant M. and W. T.)						
Thurmond, George F., et al. (See Thurmond, William H., assignor.) (Reissue.)						
Thurmond, James M., et al. (See Thurmond, William H., assignor.) (Reissue.)						
Thurmond, Warren E., et al. (See Thurmond, William H., assignor.) (Reissue.)						
Thurmond, William H., Forsyth, Ga. Car-coupling.	313,386	Mar. 3	486	127	30	867
Thurmond, William H., Forsyth, Ga. Car-coupling. (Reissue.)	10,623	July 7	725	190	32	132
Thurmond, William H., assignor of one-fourth to J. M. W. E., and G. F. Thurmond, Forsyth, Ga. Car-coupling. (Reissue.)	10,622	July 7	724	190	32	132
Thursin, Albert, and F. Jacoby, O'Fallon, Mo. Corn-planter.	315,857	Apr. 14	1219	318	31	228
Thurston, John C. (See Baldwin, Luther C., assignor.)						
Thurston, Robert H., Hoboken, N. J. Apparatus for purifying water.	322,332	July 14	1233	323	32	235
Thurston, Robert H., Hoboken, N. J. Machine for testing lubricants.	332,974	Dec. 22	2487	658	33	1464
Thurston, Spencer D., Philadelphia, Pa. Piston-rod packing.	318,400	May 19	1970	530	31	903
Thury, Charles, and S. De Bassecourt, Paris, France. Corset-spring.	316,852	Apr. 28	2597	678	31	490
Tibbals, Layton S., Mission San José, Cal. Step-ladder.	311,272	Jan. 27	1496	408	30	296
Tibbitts, John B. (See McCarty, Norman, assignor.)						
Tibbitts, Charles E., Burlington, Iowa, assignor, by mesne assignments, to Tibbitts Manufacturing Company, Chicago, Ill. Sewing-machine.	328,534	Oct. 20	1339	348	33	259

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Tibbles, Charles E., assignor to Tibbles Manufacturing Company, Chicago, Ill. Journal-bearing	328,088	Oct. 13	761	198	33	144
Tibbles, Charles E., assignor to Tibbles Manufacturing Company, Chicago, Ill. Shuttle-carrier for sewing-machines	328,539	Oct. 20	1344	{ 330 351 }	33	260
Tibbles, Charles E., assignor to Tibbles Manufacturing Company, Chicago, Ill. Take-up mechanism for sewing-machines	328,536	Oct. 20	1342	349	33	260
Tibbles, Charles E., assignor to Tibbles Manufacturing Company, Chicago, Ill. Sewing-machine shuttle	328,537	Oct. 20	1342	349	33	260
Tibbles, Charles E., assignor to Tibbles Manufacturing Company, Chicago, Ill. Feed-motion for sewing-machines	328,538	Oct. 20	1343	350	33	260
Tibbles, Charles E., assignor to Tibbles Manufacturing Company, Chicago, Ill. Sewing-machine	328,535	Oct. 20	1340	{ 348 349 }	33	260
Tibbles, Charles E., assignor to Tibbles Manufacturing Company, Chicago, Ill. Tension-spring for sewing-machines	328,540	Oct. 20	1346	351	33	261
Tibbles, Charles E., assignor to Tibbles Manufacturing Company, Chicago, Ill. Take-up mechanism for sewing-machines	328,541	Oct. 20	1347	351	33	261
Tibbles, Charles E., assignor to Tibbles Manufacturing Company, Chicago, Ill. Feed-motion for sewing-machines	328,542	Oct. 20	1347	{ 351 352 }	33	261
Tibbles Manufacturing Company. (See Tibbles, Charles E., assignor.)						
Tichenor, Anson C., San Francisco, Cal. Electrical conductor	330,071	Nov. 10	886	229	33	680
Tichenor, Anson C., San Francisco, Cal. Alloy	330,072	Nov. 10	887		33	680
Tickle, John, West Bromwich, and F. Leonardt, Handsworth, county of Stafford, assignors to E. Caddick, West Bromwich, W. Creed, Stroud, and A. Thomas, Newnham, England. Filling and compressing machinery	328,439	Oct. 13	1223	317	33	231
Tideman, Sven, Chicago, Ill., assignor to E. D. Barry, Grand Rapids, Mich. Mechanical movement	321,062	June 30	2276	765	31	1604
Tidgewell, Frederick H. (See Waite and Tidgewell.)						
Tidgewell, William, Middletown, assignor to Meriden Malleable Iron Company, Meriden, Conn. Plane	312,229	Feb. 10	1049	287	30	549
Tidgewell, William, Middletown, assignor to Meriden Malleable Iron Company, Meriden, Conn. Joiner's plane	313,694	Mar. 10	884	230	30	952
Tiemann, Julius H., Brooklyn, N. Y. Refining petroleum	321,465	July 7	79		32	16
Tiemann, Julius H., Brooklyn, N. Y. Purifying petroleum	330,637	Nov. 17	1611		33	828
Tierney, Catharine A., Chicago, Ill. Guide for use in cutting garments	322,402	July 14	1332	{ 346 347 }	32	253
Tiers, Alexander H., et al. (See Pendleton, John H., assignor.)						
Tiers, Cornelius, et al. (See Pendleton, John H., assignor.)						
Tiers, Cornelius, Madison, N. J., and J. H. Pendleton, Brooklyn, N. Y. Railway	311,045	Jan. 20	1156	315	30	228
Tiffany, Albert R., assignor of three-fourths to M. Neil and J. J. Leland, Dayton, Ohio. Screw-jack	313,967	Mar. 17	1278	333	30	1031
Tiffany, Albert R., assignor of one-half to J. J. Leland, Dayton, Ohio. Belt-shifter	324,190	Aug. 11	1060	290	32	727
Tiffany & Co. (See Grosjean, Charles T., assignor.)						
Tiffany, David B., assignor of one-half to J. G. Fearle, Xenia, Ohio. Wheelbarrow	326,349	Sept. 15	1522	396	32	1311
Tiffany, Joel, Hinsdale, Ill. Machine for the manufacture of bricks	314,874	Mar. 24	1673	445	30	1113
Tighe, Lewis, Detroit, Mich. Mortise-lock	322,505	July 21	1490	391	32	287
Tilden, James A. (See Prentiss and Tilden.)						
Tilden, James A., Hyde Park, assignor to Hersey Brothers, Boston, Mass. Rotary fluid-meter	324,503	Aug. 18	1496	{ 409 410 }	32	815
Tighman, Benjamin C. (See Mathewson, Jeremiah E., assignor.)						
Tillon, William R., assignor of one-half to A. C. Hallam, Brooklyn, N. Y. Thill-coupling	328,155	Oct. 13	843	219	33	159
Tillman, William A., Grape Vine, Tex. Fence	315,068	Apr. 7	137	32	31	26
Tillmeyer, Charles H., and G. W. Bolton, Milwaukee, Wis.; said Bolton assignor to said Tillmeyer. Portable rack for scales	329,100	Oct. 27	2141	554	33	410
Tillotson, Joseph, assignor to A. H. Hammond, Worcester, Mass. Making rivet-studs	321,260	June 30	3117	830	31	1648
Tillon, Walter G., New Haven, assignor to N. A. Baldwin, Milford, Conn. Needle for leather-sewing machines	318,833	May 26	2553	680	31	1015
Tillyer, James W., Newark, N. J. Whip-socket fastener	313,032	Feb. 24	2139	561	30	766
Tilton, George W. (See Swain, Fred F., assignor.)						
Tilton, Hubbard W., Boston, Mass. Car-coupling	314,275	Mar. 24	1675	445	30	1114
Tilton, James E., Ashland, assignor to himself and W. H. Huntington, Boston, Mass. Sole for boots or shoes	331,462	Dec. 1	299	80	33	1051
Tilton, Leonard, Brooklyn, N. Y. Shutter-worker	314,493	Mar. 24	1972	525	30	1169
Tim, Wallerstein & Co. (See Hermann, Max, assignor.)						
Timby, Theodore F., Brooklyn, N. Y. Sifter	331,344	Dec. 1	119	29	33	1020
Timby, Theodore R., Nyack, N. Y. Tower and shield system of fortifications	312,230	Feb. 10	1051	{ 287 288 }	30	550
Timby, Theodore R., Nyack, N. Y. System of firing battery-guns in turrets by electricity	312,231	Feb. 10	1052	{ 288 289 }	30	550
Timby, Theodore R., Nyack, N. Y. Revolving tower and shield system of fortifications	312,232	Feb. 10	1054	289	30	550
Timby, Theodore R., Nyack, N. Y. Revolving-tower system of fortifications	330,638	Nov. 17	1612	431	33	828
Timby, Theodore R., Nyack, N. Y. Shield and tower system of fortifications	330,639	Nov. 17	1613	{ 431 432 }	33	829
Timby, Theodore R., Nyack, N. Y. Revolving-tower fortification	330,640	Nov. 17	1614	{ 432 433 }	33	829
Timby, Theodore R., Nyack, N. Y. Revolving-tower system of fortifications	330,641	Nov. 17	1615	434	33	830
Timby, Theodore R., Nyack, N. Y. Revolving-tower system of fortifications	330,642	Nov. 17	1616	435	33	830
Timmermann, William, assignor to himself and J. H. Twaddell, New York, N. Y. Fastening for mail-bags, &c	327,972	Oct. 6	606	158	33	109
Timmers, William. (See Christenson and Timmers.)						
Timmins, Illius A., and S. C. C. Currie, London, county of Middlesex, England. Railway-signal	326,068	Sept. 8	1130	287	32	1231
Timmons, Lindsey H., Dubuque, Iowa. Rotary steam-engine	320,725	June 23	2424	643	31	1514
Timms, Harvey N., Stephenson County, Ill. Pole and shaft for vehicles	313,128	Mar. 3	117	28, 29	30	797
Timms, James, assignor of one-half to B. F. Rees, Columbus, Ohio. Car-axle box	316,503	Apr. 28	2108	554	31	400
Timms, James, assignor of one-half to B. F. Rees, Columbus, Ohio. Car-axle box	319,643	June 9	919	243	31	1225
Tinchant, Edward A., Antwerp, Belgium. Cigar-machine	319,349	June 2	503	137	31	1144
Tin-Plate Decorating Company. (See Habenicht, Charles R. H. M., assignor.)						
Tindall, George G., Oakland, Cal. Steam-boiler	325,027	Aug. 25	2214	608	32	956
Tindell, Adam, Philadelphia, Pa. Manufacturing steel forgings and castings	324,433	Aug. 18	1405		32	709
Tindell, Henry. (See Clark and Tindell.)						
Tingley, Frank F., assignor to Barstow & Luther, Providence, R. I. Bracelet	326,606	Sept. 22	1846	434	32	1377
Tingley, George S., assignor to R. Bliss Manufacturing Company, Pawtucket, R. I. Toy gun	332,461	Dec. 15	1765	462	33	1327

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Tingley, John, Philadelphia, Pa. Heel-machine	322,761	July 21	1814	479	32	346
Tingley, John, Philadelphia, Pa. Machine for attaching boot or shoe heels	324,279	Aug. 11	1193	324	32	752
Tingley, Samuel H. (See Dart, Albert E., assignor.)						
Tingley, Silvanus, Boston, Mass. Asbestos paper	310,334	Jan. 6	240	65	31	45
Tinker, George L., New Philadelphia, Ohio. Bee-hive	311,273	Jan. 27	1497	408	30	296
Tinsley, William P., Dallasbury, Ky. Buckle attachment	326,350	Sept. 15	1522	396	32	1311
Tipney, Mary A., Janesville, Wis. Device for preserving fruits, &c.	313,129	Mar. 3	119	29	30	786
Tippett, Robert G., assignor of one-half to D. Madlem, Reading, Pa. Can-opener	331,923	Dec. 8	1012	262	33	1122
Tippitt, James A., Carroll's Prairie, Tex., assignor of one-half to G. W. Randolph, Memphis, Tenn. Bale-tie	314,753	Mar. 31	2308	613	30	1257
Tirrell, Jacob P., Boston, Mass. Electric signaling apparatus	313,784	Mar. 10	1013	281 282	30	974
Tirrell, Jacob P., Boston, assignor to J. F. Emerson, Wakefield, G. O. Carpenter, Boston, and J. W. Carter, Newton, Mass. Electric gong	328,982	Oct. 27	1970	512	33	381
Tirrell, Jacob P., Boston, assignor to J. F. Emerson, Wakefield, G. O. Carpenter, Boston, and J. W. Carter, Newton, Mass. Electric signaling apparatus	331,463	Dec. 1	300	81	33	1051
Tisdale, Charles D., Boston, Mass., assignor of two-thirds to J. D. Gould, New York, N. Y. Railway signaling apparatus	316,201	Apr. 21	1688	443	31	320
Tisdale, Mary E., Cedar Rapids, Iowa. Egg boiler and caster	318,523	May 26	2138	576	31	943
Titus, Charles M., Ithaca, N. Y. Dumping-wagon	320,346	Oct. 27	2496	644	33	476
Titus, Erasmus C., Catskill, N. Y. Switch	320,019	June 16	1441	378	31	1326
Titus, Ivor R., and H. C. Bossinger, Huntington, W. Va. Car-coupling	317,889	June 12	1281	341	31	766
Titus, Jacob G., Elizabethtown, N. Mex. Ter. Quartz-mill	320,415	May 16	2019	530	31	1420
Titus, John C., J. and S. E. Morral, Marion, Ohio, assignors of one-half to said Titus and of one-fourth each to said J. and S. E. Morral. Ditching-machine	322,656	July 21	1677	444	32	320
Titus, John T., San Francisco, Cal. Hose-coupling	319,350	June 2	505	138	31	1144
Tobey, Elisha H., Denver, Colo. Safety railway-switch	324,613	Aug. 18	1646	453 454	32	844
Tobey, Elisha H., Denver, Colo. Interlocking mechanism for railway switches and signals	324,614	Aug. 18	1648	454 455	32	845
Tobey, Henry A., Lima, Ohio. Steam-trap	333,032	Dec. 22	2582	679	33	1421
Tobey, Horace P., Wareham, and G. B. Thayer, assignors to Golden Gate Concentrator Company, Boston, Mass. Ore-concentrator	326,806	Sept. 22	2152	560 561	32	1431
Tobey, Miles. (See Hudson and Tobey.)						
Tobey, Orville H., Chicago, Ill., and W. W. Tobey, New York, N. Y. Process of and apparatus for roasting ores	315,089	Apr. 7	138	32	31	26
Tobey, William W. (See Tobey, Orville H. and W. W.)						
Tobias, Benjamin, Washington, Ill. Grading and ditching machine	327,740	Oct. 6	312	80	33	55
Tobias, Francis H., New York, N. Y. Folding bedstead	320,101	Oct. 27	2142	554	33	410
Tobin, John F. (See Robertson and Tobin.)						
Todd, Albert M., Nottawa, Mich. Obtaining menthol	330,274	Nov. 10	1136	302	33	730
Todd, Henry B., Meriden, Conn. Stove-pipe damper	317,046	May 5	147	38	31	549
Todd, James M., Albert Lea, Minn. Wheel-fender for carriages	332,022	Dec. 8	1142	299	33	1212
Todd, John N. (See Friess and Todd.)						
Toennies, Charles, Hoboken, N. J. Rocking propeller	319,351	June 2	505	138	31	1144
Toglio, Peter, Charleston, S. C. Manufacture of imitation-brick weather-boarding	318,054	May 19	1517	406	31	818
Togus, Theodore M., Concord, N. H. Umbrella show-stand	323,977	Aug. 11	772	215	32	675
Toledo Mower and Reaper Company. (See Davis, John S., assignor.)						
Tolhurst, William H., Troy, N. Y. Centrifugal machine	322,762	July 21	1816	480	32	346
Toliver, George E., assignor of two-thirds to H. W. Poundstone and E. Schopf, Newport, Mo. Rotary engine	327,621	Oct. 6	169	40	33	30
Tolley, Henry, Birmingham, county of Warwick, England. Breech-loading small-arm	315,858	Apr. 14	1921	319	31	928
Tolman, Gayzer D., Shawano, Wis. Screw-bolt lock	322,657	July 21	1679	445	32	321
Tolman, James P., West Newton, Mass. Machine for making cordage	326,607	Sept. 22	1247	424 425	32	1377
Tombly, Orison, et al. (See Huse, Warren D., assignor.)						
Tombs, Edward S. B., London, county of Middlesex, England. Show-box	314,893	Mar. 31	2524	668	30	1296
Tompkins, William S., Boonton, N. J. Hand coal-conveyer	319,865	June 9	1316	321	31	1278
Tomlinson, Edwin R., assignor to E. Cole & Burnham Company, Bridgeport, Conn. Hose-nozzle	319,148	June 2	262	69	31	1095
Tomlinson, Nathan, Princeton, Ind. Window-shade fastener	324,738	Aug. 18	1815	501	32	676
Tompkins, John J., assignor to himself, W. and N. Bosler, Louisville, Ky. Shoe	328,543	Oct. 20	1349	352	33	261
Tompkins, Samuel D., Jersey City, N. J., and J. N. Matlock, Brooklyn, N. Y. Hot-water or steam radiator	323,235	July 28	2489	661	32	476
Tompkins, William D., Floyd Court-House, Va., assignor of one-half to W. and J. H. Leonard, Baltimore, Md. Grub-puller	328,983	Oct. 27	1972	512	33	381
Toms, Seymour. (See Simpson, John M., assignor.)						
Tondeur, Cleon, Canastota, N. Y. Glass-flattening furnace	330,172	Nov. 10	1011	264	33	705
Toney, Tennille, Union Springs, Ala. Car-step	323,236	July 28	2490	662	32	477
Tonks, James. (See Spruce and Tonks.)						
Tonner, A. Clarke. (See Nodde, George G., assignor.)						
Tonner, A. Clarke, Canton, Ohio. Burglar-alarm	318,834	May 26	2555	680	31	1015
Toole, James N., Jackson, Mich. Railway-signal	325,286	Sept. 1	77	23	32	1030
Topliff, John A., E. S. Cross, W. S. Cox, and J. A. McCollum, Elyria, Ohio. Furnace	330,940	Nov. 24	2015	544 545	33	912
Toppan, James S., et al. (See Allen, Samuel F., assignor.)						
Tordoff, Joseph, Leeds, county of York, England. Manufacture of steam-boiler man-holes and analogous devices	316,312	Apr. 21	1831	482	31	345
Torrance, Francis J., Allegheny, Pa. Bath-tub	327,973	Oct. 6	607	158	33	109
Torrance, John A., and D. B. Jernigan, Harrison, Ark. Cultivator	316,313	Apr. 21	1832	482	31	345
Torrey, Augustus, Detroit, Mich., and D. J. Casey, Cylon, Wis. Passenger-recorder	315,355	Apr. 7	509	130	31	92
Torrey, Charles S., Dimondale, Mich. Potato-digger	326,461	Sept. 15	1650	431	32	1334
Torrey, Charles S., Dimondale, Mich. Root-digger	326,462	Sept. 15	1651	431	32	1335
Torrey, Joseph R. (See McDonald, Alexander, assignor.)						
Torrey, Joseph R. (See Vrooman, William P., assignor.)						
Torsional Balance and Scale Company. (See Springer, Alfred, assignor.)						
Totman, James H., Deseronto, Ontario, Canada. Machine for sharpening and gumming saws	324,434	Aug. 18	1406	323	32	799
Totten, Charles A. L. (See Clark and Totten.)						
Totten, Charles A. L., Garden City, N. Y. Linear or other scale	331,345	Dec. 1	121	29, 30	33	1020
Totten & Co., Thomas. (See Willis, Warren E., assignor.)						
Totten, John E., North Attleborough, Mass. Button	311,794	Feb. 3	431	117	30	429
Totten, Robert C. (See Reese, Abram, assignor.)						
Tourgee, Albion W., assignor to L. D. Jennings and S. E. Kilbourne, Mayville, N. Y. Horse-collar and hame	329,507	Nov. 3	109	29	33	52

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Toungree, Albion W., and L. D. Jennings, assignors to L. D. Jennings and S. E. Kilbourne, Mayville, N. Y. Buckle	327,622	Oct. 6	163	40	33	30
Toungree, Albion W., and L. D. Jennings, assignors to said Jennings and S. E. Kilbourne, Mayville, N. Y. Bridle and bridle attachment	329,508	Nov. 3	111	29	33	526
Toungree, Albion W., and L. D. Jennings, Mayville, N. Y. Harness	333,175	Dec. 29	2782	729	33	1521
Tourigne, Carlos, San Francisco, Cal. Pattern-making machine	317,687	May 12	1016	264	31	715
Tourville, Ferdinand. (See Barrier, Tourville, and Legay.)						
Tousley, Miron G., assignor to A. Patrick, Englewood, Ill. Portable elevated platform for stores, &c.	315,573	Apr. 14	843	221	31	156
Tower, Abner J., Boston, Mass. Coat	310,922	Jan. 20	981	267	30	195
Tower, Abner J., Boston, Mass. Horseman's coat	313,130	Mar. 3	119	29	30	798
Tower, Ashley B., Holyoke, Mass. Machine for grinding pulp from wood	311,212	Jan. 27	1308	382 383	30	278
Tower, Caleb E. (See Meagher and Tower.)						
Tower, Daniel W., assignor to C. H. Leonard, Grand Rapids, Mich. Locking mechanism for doors	314,401	Mar. 24	1842	490	30	1146
Towers, John V. R., assignor of one-half to L. Towers, Jr., Washington, D. C. Picture-hanger	321,866	July 7	634	164	32	116
Towers, Lemuel, Jr. (See Towers, John V. R., assignor.)						
Towle, Abner S., assignor of one-half to J. D. Fogg, Rochester, N. H. Compound metal-working machine	321,547	July 7	198	52	32	39
Towle, Abner S., assignor to Rochester Machine Company, Rochester, N. H. Compound metal-working machine. (Reissue)	10,665	Nov. 24	2472	667	33	994
Towle, George W., Jr., San Rafael, Cal. Hose-patch	312,406	Feb. 17	1296	358	30	605
Towle, William O. (See Daly, Samuel, assignor.)						
Towles, Henry O., et al. (See Baden, Thomas E., assignor.)						
Town, Curtis H., et al. (See Blazier, Fredrick, assignor.)						
Town, S. Chester, Castle, N. Y. Fence	316,418	Apr. 21	1988	522	31	372
Towne, Enoch H., et al. (See Genin, John B., assignor.)						
Towne, Henry R., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Hanger for overhead tram-rails	316,504	Apr. 28	2109	554	31	400
Towne, Nathan P., Brooklyn, N. Y. Lantern	317,047	May 5	148	38	31	549
Townsend, Eli C., New York, N. Y. Underground housing and insulation for electric conductors	310,748	Jan. 13	754	205 206	30	149
Townsend, Isaac. (See Watson, Charles S., assignor.)						
Townsend, John, assignor to Johnson Steel Street Rail Company, Johnstown, Pa. Rail-way rail chair	331,012	Nov. 24	2102	569	33	928
Townsend, John, assignor to Johnson Steel Street Rail Company, Johnstown, Pa. Rail-way frog	331,013	Nov. 24	2102	569	33	929
Townsend, Joseph F., Cambridgeport, Mass. Suspender-buckle	316,853	Aug. 25	2045	559	32	925
Townsend, Louis, Evansville, Ind. Combined annunciator and spring-jack	310,750	Jan. 13	756	206	30	149
Townsend, Louis, and R. W. Moore, Evansville, Ind. Combined spring-jack and annunciator	310,749	Jan. 13	755	206	30	149
Townsend, Orion D., Isle St. George, Ohio. Rain-water escape	316,853	Apr. 28	2598	678	31	490
Townsend, Samuel, Detroit, Mich. Cylinder-lubricator	313,033	Feb. 24	2140	582	30	766
Townsend, Samuel, Detroit, Mich. Lubricator	313,034	Feb. 24	2141	582	30	767
Townsend, Warren R., assignor to himself and C. S. Knight, Grand Rapids, Mich. Automatic waste-valve for engine-cylinders	320,896	June 23	2544	674	31	1537
Towse, William R., Columbus, Ohio. Saw-handle	327,833	Aug. 4	578	163	32	632
Trabue, William, Louisville, Ky. Revolving fire-arm	314,494	Mar. 24	1974	525	30	1169
Trabue, William, Louisville, Ky. Revolving fire-arm	314,754	Mar. 31	2309	613	30	1257
Tracey, F. E. (See Hatfill, Thomas, assignor.)						
Tracey, James C., New York, N. Y. Cutting bifurcated garments	330,073	Nov. 10	888	230	33	680
Trachsel, John, J. K. Lipps, and W. H. Turney, Columbia City, Ind. Weather-strip	318,437	May 19	2017	543	31	911
Tracy, Christopher C., New York, N. Y. Machine for grading shot	310,335	Jan. 6	240	65, 66	30	46
Tracy, Frederick K., Chicago, Ill. Printer's form	314,495	Mar. 24	1975	525	30	1169
Tracy, George S., et al. (See Foust, James W., assignor.)						
Tracy, George S., et al. (See Johnson, William F., assignor.)						
Tracy, H. P. (See Wilson, Alexander W., assignor.)						
Tracy, John, Freeport, Ill. Nut-lock	331,848	Dec. 8	896	231	33	1166
Tracy, John D., Sterling, Ill. Hay-tedder	313,555	Mar. 10	709	185	30	918
Tracy, Lewis W., Brooklyn, N. Y. Hand-power rock-drill	312,304	Feb. 17	1163	318	30	580
Tracy, Lewis W., Philadelphia, Pa. Rock-drilling machine	314,755	Mar. 31	2310	614	30	1257
Tracy, Truman L. (See Calef and Tracy.)						
Tracy, William A., Philadelphia, Pa. Safety device for boilers	329,509	Nov. 3	113	29	33	526
Tracy, William P., Grand Rapids, Mich. Thill-coupling	310,450	Jan. 6	403	111	30	78
Trabern, William C., Elm Lake, Wis. Apparatus for gathering cranberries	319,352	June 2	506	138	31	1144
Train, Edgar H., Union City, Conn. Press for setting lacing-books	323,978	Aug. 11	773	216	32	675
Traitel, Benjamin D., and H. Ruyter, New York, N. Y.; said Ruyter assignor to said Traitel. Finger-ring, &c.	317,596	May 12	898	230	31	694
Trammell, Jefferson D., Auburn, Ala. Car-truck	314,402	Mar. 24	1843	491	30	1147
Trammell, William A. (See Williams and Trammell.)						
Transit Apparatus Company. (See Birge, Isidore, assignor.)						
Transit Apparatus Company. (See North, Selden G., assignor.)						
Traphagen, William H., assignor to Emerson, Talcott & Co., Rockford, Ill. Cultivator	327,358	Sept. 29	2894	755	32	1570
Trask, Adoniram J., Nobleborough, Me. Boot or shoe ventilator	311,046	Jan. 20	1157	315	30	228
Trask, Harry, Brooklyn, N. Y. Pipe-hanger	316,922	Apr. 28	2700	703	31	509
Trask, Henry C., Vienna, Me. Car-coupling	321,773	July 7	497	131	32	93
Traut, Justus A., New Britain, Conn. Bench-plane	319,039	June 2	128	35	31	1071
Traut, Justus A., assignor to Stanley Rule and Level Company, New Britain, Conn. Plane	316,079	Apr. 21	1524	398	31	289
Traut, Justus A., assignor to Stanley Rule and Level Company, New Britain, Conn. Floor-plane	332,305	Dec. 15	1553	407	33	1290
Trautmann, Charles M. (See Fletcher, Dunkin, Hanhart, and Trautmann.)						
Traver, Augustus, New York, and H. B. Pierson, Brooklyn, N. Y. Glove-fastening	332,763	Dec. 22	2209	582	33	1412
Traver, Harrison. (See Weeks and Traver.)						
Travers, Vincent P., New York, N. Y. Rope-buckle	315,859	Apr. 14	1223	319	31	229
Travers, Vincent P., New York, N. Y. Hammock-support	316,419	Apr. 21	1988	522	31	372
Travers, Vincent P., New York, N. Y. Thimble for hammocks, &c.	318,524	May 26	2139	576	31	943
Travers, Vincent P., New York, N. Y. Hammock	330,941	Nov. 24	2016	545	33	912
Traverse, James E., Cincinnati, Ohio. Machine for swaging saw-teeth	331,262	Nov. 24	2458	663 664	33	991
Travis, Charles L., assignor of one-half to Minnesota Brush Electric Company, Minneapolis, Minn. Support for electric lights	329,510	Nov. 3	114	30	33	527

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Travis, Joseph B., <i>et al.</i> (See Phillips, Columbus, assignor.) (Reissue.)						
Travis, Samuel G., Leavenworth, Kans. End-gate for wagons	322,506	July 21	1491	392	32	287
Traylor, George M., Atlanta, Ga. Traveling sign for cars	331,346	Dec. 1	124	30	33	1020
Traylor, George M., Atlanta, Ga. Traveling sign for railway-cars	332,306	Dec. 15	1554	407 408	33	1290
Treadway, Dwight, <i>et al.</i> (See Long, William S., assignor.)						
Treat, Francis H., assignor of one-half to H. S. Smith, Joliet, Ill. Rolling-mill for rolling leafed wire for the manufacture of barbed wire	314,082	Mar. 17	1415	369 370 371	30	1058
Treat, Francis H., assignor of two-thirds to H. S. Smith and C. Pettigrew, Joliet, Ill. Rolling-mill	314,083	Mar. 17	1416	370 371 372	30	1058
Treat, Francis H., assignor of two-thirds to H. S. Smith and C. Pettigrew, Joliet, Ill. Rolling-mill	333,431	Dec. 29	3127	817 818	33	1582
Treat, John, Enfield, Me. Rafting-pin	328,260	Oct. 13	972	253	33	184
Trego, A. Homer, assignor of three-fourths to E. L. Smith, J. Steelman, Jr., and A. De Cernea, Philadelphia, Pa. Bridle-bit	332,571	Dec. 15	1933	506	33	1355
Trelease, Alford, Waterbury, Conn. Bustle	322,440	Oct. 13	1225	318	33	232
Tremlett, John, <i>et al.</i> (See Haynes, William, assignor.)						
Tremont Nail Company. (See Walsh, John A., assignor.)						
Trenkamp, Henry. (See Schneider and Trenkamp.)						
Trent, Eugene F., Jersey City, N. J. Fishing-reel	313,605	Mar. 10	885	230	30	952
Trent, Eugene F., Jersey City, N. J. Lamp-burner	314,354	Mar. 24	1783	474	30	1134
Trenton Iron Company. (See Hewitt, William, assignor.)						
Trenton Iron Company. (See Withington, James, assignor.)						
Trépardoux, Charles. (See De Dion, Bouton, and Trépardoux.)						
Trested, Richard H. (See Kendall, John L., assignor.)						
Trew, Thomas J., Kirksville, Mo. Stove or heater	314,205	Mar. 17	1577	418	30	1086
Trick, Wilkins, <i>et al.</i> (See Mitchell, Bernard W., assignor.)						
Tricker, John N., assignor to C. Chambers, Jr., Philadelphia, Pa. Device for cleaning cut-off wires of brick-machines	318,055	May 19	1518	407	31	818
Tricycle Manufacturing Company. (See Bean and Grant, assignors.)						
Trier, Conrad, Chicago, Ill. Circular sawing machine	322,858	July 21	1680	445 446	32	321
Trige, John, Mount Vernon, N. Y. Drop-light and chandelier	315,976	Apr. 14	1390	361	31	257
Triller, Richard, assignor to J. T. Noye Manufacturing Company, Buffalo, N. Y. Tenon-ing and boring machine	312,530	Feb. 17	1475	404	30	637
Trimble, James M., Sedan, Kans. Ladder	313,387	Mar. 3	488	127	30	867
Trimmer, Benjamin T., West Bloomfield, N. Y. Burglar-alarm	330,942	Nov. 24	2016	545	33	912
Tringham, John W., Windsor, Ontario, Canada. Supporting electrical wires	330,173	Nov. 10	1013	264	33	706
Trinkle, Christopher C. (See Helms and Trinkle.)						
Triple Thermic Motor Company. (See Colwell, William S., assignor.)						
Triple Thermic Motor Company. (See Colwell and Davis, assignors.)						
Tripp, Augustus F., and I. Woepfel, assignors to S. Shepard & Co., Buffalo, N. Y. Flour-sifter	322,141	July 14	1009	262	32	192
Tripp, Hiram B., Baltimore, Md. Burglar-proof safe-door	317,688	May 12	1090	264	31	717
Tripp, Jay E. (See Hall and Tripp.)						
Tripp, Thomas, East Stoughton, Mass. Anti-friction bearing	315,356	Apr. 7	511	131	31	93
Tripp, Thomas, Stoughton, Mass. Anti-friction journal-box	323,468	Aug. 4	109	31	32	542
Tripp, Sylvanus L., Denver, Colo. Amalgamator	318,932	May 26	2633	711	31	1039
Trippett, Joseph, T. and H. Sear's, Sheffield, county of York, England. Buffer	328,085	Oct. 13	757	197	33	143
Trippett, Joseph, T. and H. Sear's, Sheffield, county of York, England. Draw-bar	328,086	Oct. 13	758	198	33	143
Trices, John S., Moncton, New Brunswick, Canada. Railway-signal	326,069	Sept. 8	1132	222	32	1231
Trix, John. (See Murdock, Horace B., assignor.)						
Trobach, Konrad, Berlin, Germany. Manufacture of sugar	322,079	July 14	919		32	175
Troden, James. (See Phillips, Troden and Golling.)						
Troemner, Henry. (See Coles, Henri H., assignor.)						
Tromblee, Andrew, Port Henry, N. Y. Adjustable angle-sheave	315,090	Apr. 7	139	32	31	27
Trombly, Alexander. (See Decker and Trombly.)						
Trost, Henry C. (See Weston and Trost.)						
Trott, Stinson E., Wilmington, Ill. Carbonizing paper	319,353	June 2	508	139	31	1145
Trotter, Alexander P., Furnivals Inn, county of Middlesex, England. Apparatus for distributing and diffusing light	330,356	Nov. 10	1251	333	33	753
Troat, Amos, and C. H. Ortlip, Philadelphia, Pa. Pipe-thread-cutting stock	318,222	May 19	1729	462	31	859
Tront, Carver C. (See Stouffer, Hiram C., assignor.)						
Tront, Conrad C. (See Riddell and Tront.)						
Trout, John F., Chicago, Ill. Water-urn for cooking purposes	326,529	Sept. 15	1736	453 454	32	1351
Trout, John F., Chicago, Ill. Lamp-burner	330,810	Nov. 17	1838	495 496	33	872
Trout, John F., assignor of one-half to R. Barry, Chicago, Ill. Oil-burning stove	332,307	Dec. 15	1556	408 409	33	1290
Tront, Silas E., assignor to H. S. Wendell, Philadelphia, Pa. Manufacture of wall-paper, &c	322,507	July 21	1492		32	287
Trowbridge, Frank, Fond du Lac, Wis. Feed-water cleaner	330,511	June 23	2148	567	31	1462
Trowbridge, Frank, Fond du Lac, Wis. Man-hole cover for boilers	330,512	June 23	2150	567	31	1462
Trowbridge, John H., New York, N. Y. Machine for gathering and ruffling fabrics	323,544	Aug. 4	214	63	32	562
Trowbridge, W. E. S., <i>et al.</i> (See Mason, Henry, assignor.)						
Troy Burlap Manufacturing Company. (See Snyder, William J., assignor.)						
Troy, Daniel S., Montgomery, Ala. Propulsion of ships, &c	317,890	May 12	1282	341	31	767
Troy, Daniel S., Montgomery, Ala. Compressed air and gas locomotive-engine	317,891	May 12	1283	342 343	31	767
Troy, Daniel S., Montgomery, Ala. Gas-engine	317,892	May 12	1287	343 344	31	768
Troy, Daniel S., Montgomery, Ala. Velocipede	317,893	May 12	1291	345 346	31	768
Troy, Daniel S., Montgomery, Ala. Nut-lock	322,869	July 21	1967	521	32	374
Troy, Daniel S., and J. S. Davis, Montgomery, Ala. Seeding-machine	319,432	June 2	617	167	31	1166
Troy, Daniel S., and J. S. Davis, Montgomery, Ala. Seeding-machine	331,263	Nov. 24	2461	664	33	992
Troy Laundry Machinery Company. (See Angus, Charles, assignor.)						
Truax, Jacob W., Essex Junction, Vt. Turbine water-wheel	318,223	May 19	1731	462 463	31	859
Trude, Arthur M., Hartford, Conn. Railway-track fastening	329,887	Nov. 3	508	153	33	617
Trudo, Allison, <i>et al.</i> (See Hale, Roswell W., assignor.)						
True, Daniel E., Leominster, Mass. Pail for commodes	323,469	Aug. 4	111	32	32	542

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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True, David, Salisbury, Mass. Carriage-jack	323,237	July 28	2490	662	32	477
True, Mark B., assignor to himself and J. S. Murphy, Newburyport, Mass. Mechanical movement	327,741	Oct. 6	312	80	33	55
True, Reuben M., Cincinnati, Ohio. Bolting-chest	326,175	Sept. 15	1274	328	32	1264
Trueman, William H., Philadelphia, Pa. Stand for type-writers, &c	313,789	Mar. 10	1010	262	30	975
Truesdail, Robert J., Carlyle, Ill. Dust-guard for cars	316,583	Apr. 28	2204	580	31	418
Truesdale, Charles, Cincinnati, Ohio. Gate for casting	332,402	Dec. 15	1768	462	33	1327
Trull, William E., Jersey City, N. J. Button-hole sewing-machine	320,448	June 16	2063	542	31	1438
Trullinger, Delazon L., Union Mills, Oreg. Gate for water-wheels	330,753	Nov. 17	1768	477	33	859
Trullinger, John C., Astoria, Oreg. Insertible saw-tooth	311,692	Feb. 3	304	93	30	406
Trunn, Emanuel J., Brooklyn, N. Y. Temporary cover for books and similar articles	324,791	Aug. 18	1690	519	32	890
Trumbull, Solomon T., Gloucester, Mass. Building-block	312,305	Feb. 17	1165	318	30	560
Trump, Fuller, Springfield, Ohio. Crank-shaft	312,056	May 19	1519	407	31	818
Truran, William, assignor to Pittsburgh Steel Nail Company, Allegheny, Pa. Machine for making wrought nails	314,294	Mar. 31	2325	669	30	1296
Truran, William, assignor to Pittsburgh Steel Nail Company, Allegheny City, Pa. Die for making staples	327,974	Oct. 6	608	159	33	109
Trussell, Joshua W., Rockland, Me. Check-rein holder	313,131	Mar. 3	120	29	30	799
Trussell, Lorenzo J., assignor of one-half to C. S. Hartough, Leavenworth, Kans. Device for fastening presser-feet for sewing-machines to their bars	311,795	Feb. 3	432	117	30	429
Trussell, Willburt C., Boston, Mass. Street-car motor	327,623	(Oct. 6)	165	42	33	30
Tryon, Joseph M., West Farms, N. Y. Velocipede	329,102	Oct. 27	2143	554	33	410
Tubbs, Alfred L., San Francisco, Cal. Machine for spinning hemp, &c	325,368	Sept. 1	184	49	32	1049
Tubbs, Lilly B., Philadelphia, Pa. Cut-off for hydraulic and other engines	329,417	Oct. 27	2608	673 674	33	496
Tubbs, Napoleon B. (See Nelson, Irenaeus P., assignor.)						
Tubbs, Nelson J., Philadelphia, Pa. Hydraulic engine	314,276	Mar. 24	1675	445 446	30	1114
Tubman, William. (See Ferguson, Schumacher, and Tubman.)						
Tuck, Josiah H. L., San Francisco, Cal. Heat-transmitter	323,545	Aug. 4	215	64	32	562
Tuck, Josiah H. L., San Francisco, Cal. Loading and unloading platform for street use	330,754	Nov. 17	1769	477	33	859
Tucker, Argyle W., Midthonian, assignor of one-half to W. T. Stewart, Big Springs, Tex. Calculating device	331,264	Nov. 24	2462	664	33	992
Tucker, Calder & Co. (See Busacker, John, assignor.)						
Tucker, Charles A. (See Piffard, Henry G., assignor.)						
Tucker, Charles A., Islip, N. Y. Electric temperature-regulator	328,156	Oct. 13	244	219	33	160
Tucker, Charles W. (See Tucker, Frank, assignor.)						
Tucker, Ephraim, assignor to E. W. Vaill, Worcester, Mass. Folding table	312,039	Feb. 10	783	214	30	501
Tucker, Ephraim, assignor to E. W. Vaill, Worcester, Mass. Music rack or holder	312,040	Feb. 10	784	214	30	502
Tucker, Frank, assignor of one-half to C. W. Tucker, Boston, Mass. Garment-clasp	314,549	Mar. 24	2042	544	30	1181
Tucker, Frank W., Waterbury, Conn. Machine for making toe-calks	326,463	Sept. 15	1653	432	32	1335
Tucker, George, et al. (See Andrews, Oscar, assignor.)						
Tucker, George, et al. (See Moses and Andrews, assignors.)						
Tucker, Ira B., Hanford, Cal. Roller-hinge for gates	333,033	Dec. 22	2526	679	33	1482
Tucker, James H., and A. Godfrey, assignors to J. B. Allen, Providence, R. I. Curtain-ring fastening	312,233	Feb. 10	1054	290	30	551
Tucker, John H. (See Newhall and Tucker.)						
Tucker, John L., assignor of one-half to H. A. Foster, Chelsea, Mass. Car-wheel	320,966	June 30	2770	736	31	1585
Tucker, Josiah W. (See Judkins, Edwin H., assignor.)						
Tucker, Marcellus E., Brandon, Vt. Wood-turning lathe	313,839	Mar. 10	1082	223	30	987
Tucker, Marcellus E., Brandon, Vt. Wood-turning machine	313,840	Mar. 10	1080	223 224	30	988
Tucker, Rollin D., Lynn, Mass., assignor to Tucker Seam Weltting and Machine Company, Nashua, N. H. S-wing-machine	320,898	June 23	2643	701	31	1555
Tucker Seam Weltting and Machine Company. (See Tucker, Rollin D., assignor.)						
Tucker, Stephen, Winona, Tex. Cotton-cleaner	316,505	Apr. 28	2109	554 555	31	400
Tucker, Stephen D., New York, N. Y. Delivery apparatus for printing-machines	324,967	Aug. 25	2133	583 584	32	943
Tucker, William, East Brookfield, Mass. File and cutting the same	320,899	June 23	2644	702	31	1555
Tucker, William, East Brookfield, Mass. Saw-sharpening device	327,416	Sept. 29	2568	775	32	1563
Tucker, William, East Brookfield, assignor to himself and F. F. Bullard, Palmer, Mass. Machine for reducing wire rods	332,572	Dec. 15	1934	506 507 508	33	1355
Tucker, William A., New York, N. Y. Capsule-cutting machine	313,132	Mar. 3	121	30	30	799
Tucker, William A., New York, N. Y. Capsule-machine	328,623	Oct. 20	1476	384 385	33	283
Tuckwood, Charles H., Janesville, Wis. Device for converting motion	323,546	Aug. 4	217	64	32	562
Tudor, Frederic, Boston, Mass. Steam-heating apparatus	318,401	May 19	1971	531	31	903
Tudor, Frederic, Boston, Mass. Valve	319,939	June 9	1322	349 350	31	1298
Tuecke, Friedrich, Leeburg, Pa. Cigar-perforator	317,247	May 5	434	104	31	602
Tuerk, Frederick W., Jr., Chicago, Ill. Hydraulic sausage-stuffing machine	313,536	Mar. 10	710	185	30	918
Tuerk, Frederick W., Jr., Chicago, Ill. Rotary water-meter	328,544	Oct. 20	1350	352 353	33	261
Tuerk, Samuel, assignor to himself, M. Rubel, I. Hirsch, and J. B. Galloway, Chicago, Ill. Lock-hinge	313,457	Mar. 3	5-6	150	30	886
Tufts, Augustus, assignor to E. H. Tufts, Malden, Mass. Oil-can	322,569	July 21	1574	414	32	301
Tufts, Eleanor V., administratrix. (See Tufts, Otis.)						
Tufts, Emily H. (See Tufts, Augustus, assignor.)						
Tufts, James W. (See Adams, Conrad, assignor.)						
Tufts, James W. (See Brown, John, assignor.)						
Tufts, James W., Medford, Mass. Producing ornamental designs on britannia and other soft metals	320,513	June 23	2151	567	31	1462
Tufts, Otis, deceased, Boston, Mass.; E. V. Tufts administratrix. Open-car curtain	323,176	Dec. 29	2785	730	33	1521
Tufts, Seth G., Maineville, Ohio. Roofing for buildings and other structures	315,977	Apr. 14	1391	364	31	258
Tufts, William H., Washington, D. C. Fishing-line float	332,573	Dec. 15	1939	508	33	1356
Tully, John D. (See Nelson, William A., assignor.)						
Tumbleton, William W., Baltimore, Md. Nursing-bottle tube	329,103	Oct. 27	2144	554	33	411
Tunncliffe, John, et al. (See King, William H., assignor.)						
Tunncliffe, John C., assignor to G. W. Brown & Company, Galesburg, Ill. Corn-planter	325,638	Sept. 1	556	141	32	1121
Tunstall, William, Jr. (See Thorwarth and Tunstall.)						
Tupper, John A., Salt Lake City, Utah Ter. Capillary filter	311,452	Jan. 27	1737	473	30	340
Tupper, John B., Petaluma, Cal. Saw-set	313,537	Mar. 10	711	185	30	919

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Tupper, John B., Petaluma, Cal. Apple parer, slicer, and corer	329,511	Nov. 3	115	30	33	587
Tupper, John B., Jr., assignor of one-half to G. W. Young, Petaluma, Cal. Wine-press	327,121	Sept. 29	2577	672	32	1514
Turcot, Remi, P. A., Providence, R. I. Filter	316,674	Apr. 28	2320	609	31	440
Turek, Frank. (See Hardwicke, Lauriston W., assignor.)						
Turk, John E., Kelly's Corners, Mich. Salky-plow	321,324	June 30	3195	852	31	1664
Turnbull, Andrew, assignor of one-half to W. I. Felding, New Britain, Conn. Weighing-scale	322,770	July 21	1969	521	32	374
Turnbull, James A., Syracuse, N. Y. Roller-skate	321,261	June 30	3118	830	31	1648
Turnbull Wagon Company. (See Behringer, Charles, assignor.)						
Turnbull, Walter, New Orleans, La. Car-coupling	313,968	Mar. 17	1279	334	30	1031
Turnbull, Walter, New Orleans, La. Car-coupling	322,998	July 28	2160	573 574	32	416
Turnbull, William. (See Ford, Herbert L., assignor.)						
Turner, Alfred R., Jr., Malden, Mass. Twine-package	318,933	May 26	2685	711	31	1039
Turner, Anthony P. (See Taylor, Charles M., assignor.)						
Turner, Chester B., Detroit, Mich. Relief-valve for engines	326,070	Sept. 8	1134	988	32	1231
Turner, Chester B., assignor to H. C., C. C., C. B., and C. H. Hodges, Detroit, Mich. Steam-engine	327,417	Sept. 29	2968	775	32	1583
Turner, Christian, Fairfield, Iowa. Lamp-burner	311,453	Jan. 27	1739	474	30	340
Turner, Clayton A., assignor, by mesne assignments, of one-fourth to E. H. Froehlich, Milwaukee, Wis. Necktie-fastener	322,545	Oct. 20	1353	353	33	989
Turner, Edward S. (See Fields, Charles H., assignor.)						
Turner, Ephraim M., Fort Worth, Tex. Whip	320,193	June 16	1669	444	31	1368
Turner, Ephraim M., Fort Worth, Tex. Stirrup	320,184	June 16	1669	444	31	1368
Turner, George. (See Colman and Turner.)						
Turner, Henry, Boston, assignor to Walker & Pratt Manufacturing Company, Watertown, Mass. Stove	315,574	Apr. 14	843	221	31	156
Turner, Hezekiah H., Tiskilwa, Ill. Wagon end-gate	331,744	Dec. 1	750	189	33	1131
Turner, Isaac A., assignor of one-half to H. C., C. C., C. B., and C. H. Hodges, Detroit, Mich. Compound steam engine	321,325	June 30	3197	852	31	1664
Turner, Isaac J., Princeton, N. J. Tennis-racquet	323,608	Aug. 4	296	85	32	577
Turner, Jacob W., and E. W. Strack, Middle Point, Ohio. Band-cutter and feeder for thrashing-machines	319,940	June 9	1328	350	31	1298
Turner, James A., West Gorton, near Manchester, county of Lancaster, England. Manufacture of material for covering and decorating walls, &c	324,343	Aug. 11	1283		32	789
Turner, James B., Brockton, Mass. Boot or shoe	312,675	Feb. 24	1660	457	30	682
Turner, James P., Osseo, Mich. Force-pump	326,891	Sept. 22	2271	594	32	1453
Turner, John, Boston, Mass. Breech-loading fire-arm	321,923	July 7	703	184	32	128
Turner, John, Detroit, Mich. Car-truck	332,682	Dec. 15	2092	549	33	1373
Turner, John B., et al. (See Perry, Clarence E., assignor.)						
Turner, John M., Triune, Tenn. Latch	315,978	Apr. 14	1392	361	31	258
Turner, John W., assignor of one-third to S. Kelley, Pittsburg, Pa. Instrument of stationery	323,068	Dec. 22	2658	698	33	1493
Turner, Lewis W., Yalesville, Conn. Heating attachment for stoves	331,400	June 30	3298	881	31	1683
Turner, Lewis W., Yalesville, and G. J. Capewell, Cheshire, Conn. Stove	310,623	Jan. 13	593	163 164	30	119
Turner, Melzar G., Westborough, Mass. Ruffler for sewing-machines	312,306	Feb. 17	1166	319	30	580
Turner & Seymour Manufacturing Company. (See Brothwell, John G., assignor.)						
Turner, Squire S., Columbia, Mo. Endless-chain sickle for mowers and reapers	323,609	Aug. 4	297	85	32	577
Turner, Thomas G., New York, N. Y. Sharpening device for scissors	329,512	Nov. 3	118	31	33	528
Turner, Thomas G., New York, N. Y., assignor to New York Fire Extinguisher Company of New York. Chemical fire-extinguisher	333,177	Dec. 29	2786	780	33	1522
Turner, Wendell E., Fall River, Mass. Carpet lining	315,678	Apr. 14	971	254	31	182
Turner, William A., Brooklyn, N. Y., assignor of one-half to W. C. Wood, Washington, D. C. Breast-pump	316,564	Apr. 28	2205	580	31	419
Turner, William B., New York, N. Y. Shaft-coupling	314,206	Mar. 17	1578	418	30	1086
Turner, William B., and C. Board, New York, N. Y. Automatic car-brake	314,923	Mar. 31	2651	701 702	30	1318
Turner, William H., Martinsville, Ohio. Fish-inclosure	313,458	Mar. 3	587	150	30	886
Turner, Winfield S., assignor of one-half to E. Wicoff, Pittsburg, Pa. Expansion-joint for gas-pipes	323,834	Aug. 4	579	163	32	632
Turney, William H. (See Trachsel, Lipps, and Turney.)						
Tuttle, Aaron K., St. Lawrence, N. Y. Reflecting-stereoscope	313,599	Mar. 17	1176	306	30	1012
Tuttle, Arthur C., assignor to Tuttle & Bailey Manufacturing Company, New York, N. Y. Hot-air register	333,069	Dec. 22	2660	698	33	1494
Tuttle & Bailey Manufacturing Company. (See Tuttle, Arthur C., assignor.)						
Tuttle, Beeri W., Council Hill, Ill. Flour-bolt	331,265	Nov. 24	2463	664	33	993
Tuttle, Beeri W., assignor of one-half to A. W. T. Raw, Council Hill, Ill. Windmill water-supply regulator	327,503	Sept. 29	3068	799	32	1600
Tuttle, Beeri W., assignor of one-half to P. J. and A. W. T. Raw, Council Hill, Ill. Wagon-standard	327,504	Sept. 29	3070	800	32	1601
Tuttle, Charles S., and F. Twitchell, Nashua, N. H. Device for oiling the arbors of shell-rollers	313,133	Mar. 3	123	30	30	799
Tuttle, Edward A., New York, N. Y. Hot-air furnace	311,152	Jan. 20	1312	361	30	256
Tuttle, Edward A., New York, N. Y. Hot-air furnace	311,153	Jan. 20	1313	361	30	256
Tuttle, Edward D., assignor to F. J. Tuttle, Waterbury, Conn. Plater's bar	333,432	Dec. 29	3128	818	33	1522
Tuttle, Francis G., Portland, Ore. Track and wheel cleaning and lubricating device	333,090	Dec. 22	2660	698	33	1494
Tuttle, Francis R., Salem, Mass. Suspending hides in tanning	322,984	Oct. 27	1972	512	33	321
Tuttle, Frank J. (See Tuttle, Edward D., assignor.)						
Tuttle, Hiram H., Phoenix, Ariz. Ter. Washing-machine	329,418	Oct. 27	2611	674	33	496
Tuttle, Horace. (See Middleton, William H., assignor.)						
Tuttle, Homer, Cedar Rapids, Iowa. Grain-adjuster	326,464	Sept. 15	1655	432	32	1335
Tuttle, Ira J., Wheatville, N. Y., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Sewing-machine shuttle	316,080	Apr. 21	1525	398	31	229
Tuttle, Ira J., Wheatville, N. Y., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Shuttle supporting and operating mechanism for sewing-machines	316,081	Apr. 21	1528	399	31	229
Tuttle, John L., et al. (See Dorman, Henry E., assignor.)						
Tuttle, John W., Watertown, Mass. Tag-attaching device	318,583	May 26	2226	595	31	956
Tuttle, John W., Watertown, Mass. Crutch	332,624	Dec. 15	2093	550	33	1384
Tuttle, John W., Watertown, assignor, by mesne assignments, to himself and C. Woodman, Chelsea, Mass. Sewing-machine	332,623	Dec. 15	2092	550	33	1384
Tuttle, Joseph P., Onondaga Valley, N. Y. Steam-boiler furnace	323,375	July 28	2696	717	32	513
Tuttle, Joseph P., Onondaga Valley, N. Y. Damper	323,376	July 28	2697	718	32	513
Tuttle, Silas, Jr., Brooklyn, N. Y. Register-front	311,154	Jan. 20	1314	361	30	256

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Tuttle, Willis H., and R. W. Benedict, Perry, N. Y., assignors to said Tuttle. Harrow-cultivator.	312,531	Feb. 17	1477	404	30	637
Tutton, Anaximander B., Sioux Falls, Dak. Ter. Irrigating attachment for bottles.	330,735	Nov. 17	1771	477	33	859
Twaddell, James H. (See Timermann, William, assignor.)						
Twaddell, Ralph H., Westminster, county of Middlesex, J. Platt and J. Fielding, Gloucester, county of Gloucester, England. Riveting-machine.	310,546	Jan. 6	497	137	30	95
Twaddell, Ralph H., Westminster, county of Middlesex, J. Platt and J. Fielding, Gloucester, county of Gloucester, England. Riveting-machine.	310,547	Jan. 6	498	138	30	95
Twaddell, Ralph H., Westminster, county of Middlesex, J. Platt and J. Fielding, Gloucester, county of Gloucester, England. Press for flanging sheet metal.	317,437	May 5	682	172 173	31	646
Twaddell, Ralph H., Westminster, county of Middlesex, J. Platt and J. Fielding, Gloucester, county of Gloucester, England. Hydraulic valve.	317,428	May 5	684	173	31	646
Tweed, Henry A., Brooklyn, N. Y. Knob for stove-doors.	319,644	June 9	920	243	31	1226
Tweedy, Edmund, Danbury, Conn., and G. Yule, Newark, N. J. Hat-rounding machine.	330,441	Nov. 17	1372	365	33	781
Tweedy, Edmund, Danbury, Conn., and G. Yule, Newark, N. J., assignors to Hat Curling Machine Company, Danbury, Conn. Hat-brim softener.	315,451	Apr. 7	643	166 167	31	115
Tweedy, Edmund, Danbury, Conn., and G. Yule, Newark, N. J., assignors to Hat Curling Machine Company, Danbury, Conn. Hat-ironing machine.	315,452	Apr. 7	645	167 168	31	115
Tweedy, Edmund, Danbury, Conn., and G. Yule, Newark, N. J., assignors to Hat Curling Machine Company, Danbury, Conn. Hat-ironing machine.	316,585	Apr. 28	2207	581	31	419
Tweedy, Edmund, Danbury, Conn., and G. Yule, Newark, N. J., assignors to Hat Curling Machine Company, Danbury, Conn. Machine for curling, finishing, or trimming hats.	317,425	May 5	672	171	31	645
Tweedy, Edmund, Danbury, Conn., and G. Yule, Newark, N. J., assignors to Hat Curling Machine Company, Danbury, Conn. Hat-machine tool-coupler.	317,426	May 5	677	172 171	31	645
Tweedy, Edmund, Danbury, Conn., and G. Yule, Newark, N. J., assignors to Hat Curling Machine Company, Danbury, Conn. Hat-paring machine.	327,122	Sept. 29	2578	672 673	32	1515
Tweedy, Edmund, Danbury, Conn., and G. Yule, Newark, N. J., assignors to Hat Curling Machine Company, Danbury, Conn. Hat-paring machine.	327,123	Sept. 29	2582	673	32	1515
Twitchell, Horace E., Highland, N. Y. Automatic revolving manuscript-holder.	324,979	Aug. 11	775	210 231	32	676
Twine, James E., Indianapolis, Ind. Snow-plow.	331,849	Dec. 8	897	232	33	1166
Twisted Wire Box Strap Company. (See Frank. Himan, assignor.)						
Twitchell & Brother, S. (See Roortach, William L., assignor.)						
Twitchell, Franklin. (See Tuttle and Twitchell.)						
Twitchell, Myron A., Kingsley, Iowa. Adjustable cultivator-shovel.	310,856	Jan. 13	885	240	30	173
Twombly, Orion, et al. (See Huse, Warren D., assignor.)						
Tydemann, William H., Earlville, assignor of one-half to J. Reiff, Aurora, Ill. Machine for punching and shearing metal.	316,420	Apr. 21	1989	523	31	372
Tyler, Aaron J., assignor to E. C. Cole, Albion, N. Y. Saw-vise.	331,745	Dec. 1	751	190	33	1131
Tyler, Abel D., Jr., Brockton, Mass. Boot-tree.	317,476	May 5	744	188	31	657
Tyler, Abel D., Jr., assignor to O. A. Miller, Brockton, Mass. Boot-tree.	319,354	June 2	508	139	31	1145
Tyler, Abel D., Jr., assignor to O. A. Miller, Brockton, Mass. Boot-tree.	319,355	June 2	510	139	31	1145
Tyler, Abel D., Jr., assignor to O. A. Miller, Brockton, Mass. Boot-tree.	319,356	June 2	511	139	31	1145
Tyler, E. M. (See Carlton, James, assignor.)						
Tyler, Frederick A., Rome, N. Y. Crib.	328,157	Oct. 13	845	220	33	160
Tyler, George, assignor of three-fourths to H. L. Lobdell and A. M. Barker, Rock Creek, Ohio. Grain-binder.	315,091	Apr. 7	140	33, 34	31	27
Tyler, George L., Lynn, Mass. Leather-splitting machine.	319,357	June 2	512	140	31	1146
Tyler, George R., Palmyra, N. Y. Telephone attachment.	318,057	May 19	1520	407	31	818
Tyler, John E., Roxobel, N. C. Gas-check for fire-arms.	325,878	Sept. 8	883	223	32	1185
Tyler, Marcus S., et al. (See Burile, John D., assignor.)						
Tyler, Merrill A., North Easton, and E. Merritt, Brockton, Mass. Heeling-machine.	321,401	June 30	3299	881 882	31	1683
Tyler, Samuel T., Ironton, Ohio. Machine for making picks.	313,900	Mar. 17	1178	307	30	1013
Tyler, T. Frank, and E. H. Taylor; said Taylor assignor to T. W. Tyler, Lynn, Mass. Machine for forming box-toes.	316,062	Apr. 21	1530	399	31	290
Tyler, Thaddeus W. (See Tyler and Taylor, assignors.)						
Tyler, William H., David City, Nebr. Hame-tug and trace-fastening.	311,796	Feb. 3	433	117	30	429
Tyler, William W., Cleveland, Ohio. Feed-water heater and purifier.	333,429	Dec. 29	3905	838	33	1595
Tynan, John A., assignor of one-half to A. Delerac, Cincinnati, Ohio. Combined washing-machine and wringer.	330,857	Nov. 17	1901	514 515	33	883
Tynan, John A., assignor of one-half to A. Delerac, Cincinnati, Ohio. Washing-machine.	330,858	Nov. 17	1904	515	32	883
Tynan, Joseph E., Paterson, N. J. Machine for doubling and twisting thread.	321,924	July 7	706	184	32	128
Tynan, Joseph E., Paterson, N. J. Machine for doubling and twisting silk and other threads.	326,530	Sept. 15	1737	454	32	1351
Tynan, Joseph E., Paterson, N. J. Machine for throwing silk.	326,531	Sept. 15	1740	454	32	1352
Tynes, Samuel, Nacogdoches, Tex. Cotton-buncher.	316,923	Apr. 28	2701	703	31	509
Tyrrell, Ahira. (See Lathrop and Tyrrell.)						
Tyrrell, Edward, Cincinnati, Ohio. Fountain-pen.	311,861	Feb. 3	517	140	30	445
Tyrrell, Edward, and M. S. Shipley, Cincinnati, Ohio. Machine for spirally winding metallic strips.	312,580	Feb. 17	1553	422	30	653
Tyrrell, Alfred D., assignor to New Haven Clock Company, New Haven, Conn. Clock-case.	321,402	June 30	3304	882	31	1684
Tyson, Benjamin H., Wilson, N. C. Car-coupling.	327,124	Sept. 29	2586	674	32	1516
Tyson, Bryan, Washington, D. C. Amalgamator and concentrator.	328,546	Oct. 20	1354	353 354	33	262
Tyson, William, assignor of one-half to H. B. Stafford, Manson, Iowa. Washing-machine.	328,441	Oct. 13	1226	318	33	232
Ubellar, James L., Kankakee, Ill. Hat and bonnet fastener.	322,213	July 14	1092	224	32	208
Udell, Calvin G., Indianapolis, Ind. Handle-clamp.	313,558	Mar. 10	712	126	30	919
Uehling, Edward A., Bethlehem, Pa. Furnace for burning gaseous fuel.	318,328	May 19	1876	503 504	31	885
Uehling, Edward A., Bethlehem, Pa. Water-circulation for tuyeres, blast-furnaces, &c.	330,442	Nov. 17	1374	366	33	722
Ugland, Andrew A., Smithville, N. J. Motor for velocipedes.	319,040	June 2	128	35	31	1071
Uhl, Jacob, et al. (See Kittler, Julius W., assignor.)						
Uhlhorn, Diedrich, Jr., Grovenbroich, Germany. Mill for hulling grain.	322,080	July 14	921	238	32	176
Ulmer, Johann E. A., London, county of Middlesex, England. Watch-balance.	311,797	Feb. 3	435	117	30	430
Ulmer, John D., Philadelphia, Pa. Button-hole-cutting attachment for sewing-machines.	330,943	Nov. 24	2018	545	33	913
Ulmer, John D., and J. S. Collins, Philadelphia, Pa. Button-hole-cutting attachment.	312,932	Feb. 24	1997	546	30	741
Ulrich, Frederick, Peru, Ind. Wagon-axle truss.	312,676	Feb. 24	1661	458	30	682
Ulrich, Jacob, Huntington, Ind. Device to be used in constructing fences.	313,634	Mar. 10	808	212	30	936
Ulrich, Jacob, Huntington, Ind. Farm-gate.	314,756	Mar. 31	2311	614	30	1258
Ulrich, Max, Easthampton, Mass. Governor for steam-engines.	332,764	Dec. 22	2210	582	33	1412
Ulici, Charles J., Havana, Cuba. Medical compound.	333,361	Dec. 29	3030	33	1508	
Umbstaetter, Daniel, Cleveland, Ohio. Steam-boiler furnace.	324,898	Aug. 25	2046	560	32	925

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Umland, George D., Oseola Mills, Wis. Thill-coupling	319,941	June 9	1329	350	31	1298
Umland, Wilhelm, New York, N. Y. Upright-piano case	324,051	Aug. 11	869	240	32	691
Umland, Wilhelm, New York, N. Y. Upright-piano case	324,052	Aug. 11	870	240	32	692
Umphers-ton, William, Leith, Scotland. Machine for preparing pulp for paper-machines. (Reissue)	10,650	Nov. 3	613	156	33	619
Umstadter, Michael, Norfolk, Va. Gingham-exhibitor	331,858	Dec. 8	898	232	33	1166
Umstead, Isaac L., Lone City, Cal. Support for carriage-tops	314,631	Mar. 31	2156	573	30	1228
Unbehend, Jacob J. (See Thomson and Unbehend.)						
Unbehend, Jacob J., Syracuse, N. Y. Clasp	326,351	Sept. 15	1523	396	32	1311
Unbehend, Jacob J., Syracuse, N. Y. Spring-clasp	326,352	Sept. 15	1525	396	32	1311
Unbehend, Jacob J., Syracuse, N. Y. Spring-clasp	326,353	Sept. 15	1526	397	32	1312
Unbehend, Jacob J., Syracuse, N. Y. Clasp-plate	326,355	Sept. 15	1529	397	32	1312
Unbehend, Jacob J., Syracuse, N. Y. Clasp	326,356	Sept. 15	1531	397	32	1312
Unbehend, Jacob J., Syracuse, N. Y. Clasp	326,357	Sept. 15	1532	398	32	1312
Unbehend, Jacob J., assignor to J. L. Thomson, Syracuse, N. Y. Shoe-clasp	313,388	Mar. 3	489	128	30	867
Unbehend, Jacob J., assignor to J. L. Thomson, Syracuse, N. Y. Shoe-clasp	313,389	Mar. 3	490	128	30	867
Unbehend, Jacob J., assignor to J. L. Thomson, Syracuse, N. Y. Spring-clasp	313,390	Mar. 3	491	128	30	868
Unbehend, Jacob J., assignor to J. L. Thomson, Syracuse, N. Y., and G. Watkinson, New Haven, Conn. Shoe-clasp. (Reissue)	10,573	Mar. 17	1590	420	30	1089
Underhill, Arthur J. (See Hensser, Albert, assignor.)						
Underhill, William P., Brooklyn, N. Y. Invalid-bedstead	325,993	Sept. 8	1025	261	32	1211
Underwood, Anson, et al. (See Harris, Charles R., assignor.)						
Underwood, Flavius J., North Springfield, Mo. Street-railway track	310,234	Jan. 6	92	24	30	20
Underwood, H. Channing, Kalamazoo, Mich. Pavement	321,403	June 30	3305	882	31	1684
Underwood, H. Channing, Wabash, Ind. Roof for toy houses	329,513	Nov. 3	119	31	33	528
Underwood, Harold G., Milwaukee, Wis., assignor to Avery Lactate Company, Portsmouth, N. H. Lactate baking-powder	324,364	Oct. 13	1112		33	211
Underwood, Harrison, and C. Schweizer, New York, N. Y. Split pulley	327,206	Sept. 29	2694	700	32	1536
Underwood, Joseph B., assignor to W. A. Guthrie, Fayetteville, N. C. Chromatic-printing machine	333,490	Dec. 29	3206	839	33	1505
Underwood, Judson B., Meriden, assignor to Osborn & Cheesman Company, Ansonia, Conn. Lamp-burner	320,726	June 23	2426	643	31	1515
Underwood, Walter H., Denver, Colo. Hair-clipper	324,435	Aug. 18	1408	384	32	800
Unexcelled Fireworks Company. (See Gerhard, Charles, assignor.)						
Unexcelled Fire Works Company. (See Linton, Edward F., assignor.)						
Unger, Anton J., Brooklyn, assignor to himself and J. Zorn, New York, N. Y. Surgical-instrument handle	321,160	June 30	2995	794	31	1625
Unger, Charles, Pittsburg, Pa., assignor of two-thirds to E. Kauffeld and T. Miller. Vegetable boiler and cutter	314,084	Mar. 17	1423	372	30	1039
Unger, Oscar, Liepsic, Saxony, Germany. Mill for grinding or pressing coffee, spices, &c.	310,336	Jan. 6	242	66	30	46
Ungermann, Conrad, Dayton, Ohio. Tail-screw for carpenters' benches	330,643	Nov. 17	1617	435	33	830
Union Bearing and Lubricator Company. (See Goulloud and Pagé, assignors.)						
Union Brass Manufacturing Company. (See Ellacott, Joseph P., assignor.)						
Union Carburetter Company. (See Palmer, James M., assignor.)						
Union Foundry and Machine Company. (See Norton, Reuben C., assignor.)						
Union Hoist Company. (See White, Joseph J., assignor.)						
Union Paper Bag Machine Company. (See Sawyer, Benjamin F., assignor.)						
Union Paper Bag Machine Company. (See West, James, assignor.)						
Union Shuttle Company. (See Nolan, John H., assignor.)						
Union Switch and Signal Company. (See Guerber, Frederick S., assignor.)						
Union Switch and Signal Company. (See Hambay, James T., assignor.)						
Union Switch and Signal Company. (See Johnson, Charles R., assignor.)						
Union Water Meter Company. (See Ball and Smith, assignors.)						
Union Wire Mattress Company. (See Hill, Christian C., assignor.)						
Union Wire Mattress Company. (See Powers, David J., assignor.)						
Union Wire Mattress Company. (See Powers, David J., assignor.) (Reissue.)						
United States Automatic Buttonhole Sewing Machine Company. (See Mills, Daniel, assignor.)						
United States Automatic Railroad Gate and Signal Company. (See Sharp, John F., assignor.)						
United States Cable Railway Company. (See Rasmussen, Charles W., assignor.) (Reissue.)						
United States Carbonous Oxide Gas Company. (See Stapp, Robert B., assignor.)						
United States Carbonous Oxide Illuminating Gas Company. (See Stapp, Robert B., assignor.)						
United States Chemical Company. (See McNab, James, assignor.)						
United States Chemical Company. (See Petracus, Carl V., assignor.)						
United States Combustion Company. (See Westlake, William, assignor.)						
United States Cotton Seed Cleaning Company. (See Wall, William, assignor.)						
United States Cotton Seed Cleaning Company of New York. (See Lewis, John A., assignor.)						
United States Electric Lighting Company. (See Barnes, Raymond P., assignor.)						
United States Electric Lighting Company. (See Brangs, Paul H., assignor.)						
United States Electric Lighting Company. (See Colby, Edward A., assignor.)						
United States Electric Lighting Company. (See Prescott, George B., Jr., assignor.)						
United States Electric Lighting Company. (See Weston, Edward, assignor.)						
United States Silvered Steel Company. (See Pordy, William H., assignor.)						
United States Steam Specialty Company. (See Fell, Thomas M., assignor.)						
United States Wind Engine and Pump Company. (See Burnham and Haley, assignors.)						
Universal Electric Arms and Ammunition Company. (See Monfort, Edgar A., assignor.)						
Unz, Henry H., et al. (See Wagner, Franz X., assignor.)						
Updegraff, Horace, Hampton, Kans. Magazine-gun	325,360	Sept. 1	186	49, 50	32	1049
Upham, Andrew J., Sterling, Ill. assignor to Washburn & Moen Manufacturing Company, Worcester, Mass., and I. L. Ellwood, De Kalb, Ill. Barbed wire	313,391	Mar. 3	492	128	30	868
Upham, Andrew J., Sycamore, assignor to W. M. Dillon, Sterling, Ill. Wire-stretcher	325,460	Sept. 1	328	79	32	1077
Upham, Andrew J., assignor to A. Ellwood, Sycamore, Ill. Wire-tightener	332,172	Dec. 8	1374	355	33	1251
Upjohn, William E., Hastings, Mich. Making pills	312,041	Feb. 10	725	214	30	502
Upperman, James D., Pittsburg, Pa. Gas-conductor	316,506	Apr. 28	2111	555	31	401
Upson, Waldo L., Meriden, Conn. Call-bell	330,756	Nov. 17	1771	477	33	859
Upton, Charles S. (See Rhind, Frank, assignor.)						
Upton, Edgar W. (See Sherbond, Thomas W., assignor.)						
Upton, Francis R. (See Bradley, James J., assignor.)						
Upton, Francis R., Orange, N. J. Lightning-conductor	315,679	Apr. 14	973	254	31	182

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Upton, George, deceased; M. C. Upton, Salem, K. Upton, and H. Wardwell, Peabody, Mass., executors. Apparatus for washing hair	315,092	Apr. 7	144	34	31	27
Upton, George W. D., Springfield, Mass. Combined tobacco cutter and shaver	313,259	Mar. 3	329	81	30	836
Upton, James S., Battle Creek, Mich. Grain-separator	318,835	May 26	2556	680	31	1015
Upton, King, et al., executors. (See Upton, George.)						
Upton, Marian C., et al., executors. (See Upton, George.)						
Urbahn, Alwill, Paterson, N. J., assignor to J. May, Brooklyn, N. Y. Machine for bending bars	313,134	Mar. 3	121	30, 31	30	800
Urbahn, Alwill, Paterson, N. J., assignor to J. May, Brooklyn, N. Y. Machine for bending metal	313,459	Mar. 3	588	151	30	886
Urbahn, Alwill, Paterson, N. J., assignor to J. May, Brooklyn, N. Y. Metal-bending machine	313,969	Mar. 17	1280	334	30	1031
Urbahn, Alwill, Paterson, N. J., assignor of one-half to A. G. Jennings, Brooklyn, N. Y. Loom	396,071	Sept. 8	1134	288 289	32	1231
Urban, John. (See Vetsburg, Sigmund, assignor.)						
Uren, Stephen, Sacramento, Cal. Machine for making nuts	327,742	Oct. 6	313	80, 81	33	55
Uren, Stephen, Sacramento, Cal. Utilizing scrap for the manufacture of nuts, &c.	327,743	Oct. 6	314	81	33	55
Uren, Stephen, Sacramento, Cal. Brake-shoe	331,347	Dec. 1	126	31	33	1021
Urey, Adam P., Sandy Lake, Pa. Feed-water alarm	396,465	Sept. 15	1657	432	32	1336
Urie, Henry F., Chestertown, Md. Corn-harvesting machine	320,416	June 16	2020	530 531	31	1430
Ursbruck, Joseph B., Philadelphia, Pa. Nut-lock	333,362	Dec. 29	3040	793	33	1568
Uthoff, John H. H. (See Dreyer, Herman H., assignor.)						
Utley, Charles P., Milwaukee, Wis. Landing-net	325,287	Sept. 1	78	23	32	1031
Utley, Hiram S., Chicago, Ill. Producing imitation stone	315,188	Apr. 7	396		31	53
Utley, Hiram S., and H. S. Bowen, Chicago, Ill. Decorated mirror	333,433	Dec. 29	3129		33	1568
Utter, John S. (See Ward and Utter.)						
Vacuum Brake Company. (See Gresham, James, assignor.)						
Vail, Jonathan H. (See Stieringer and Vail.)						
Vail, Jonathan H., New York, N. Y. Combined engine and dynamo-electric machine	331,924	Dec. 8	1013	962 963	33	1188
Vail, Oliver E., Chicago, Ill. Wall-decorating material	316,083	Apr. 21	1532		31	290
Vail, Theodore N., Boston, Mass. Electric apparatus protector	322,214	July 14	1093	224	32	208
Vail, Theodore N., Boston, Mass. Telephone circuit and apparatus	324,191	Aug. 11	1062	291	32	728
Vail, Theodore N., Boston, Mass. Central and subsidiary telephone-exchange system, circuit, and apparatus	324,192	Aug. 11	1071	291 292	32	729
Vail, Theodore N., assignor to American Bell Telephone Company, Boston, Mass. Electric switch-board	330,644	Nov. 17	1618	436	33	831
Vail, Theron. (See McIntosh, Bacon, and Vail.)						
Vail, Thomas C., Topeka, Kans. Rassel	310,481	Jan. 6	403	111	30	78
Vail, Thomas C., Topeka, Kans. Fastening for the backs of picture-frames	317,248	May 5	434	108	31	602
Vaill, Edward W. (See Tucker, Ephraim, assignor.)						
Valentine, Carleton C. (See Newman, Anton E., assignor.)						
Valentine, David H., Brooklyn, N. Y. Dumping-car	317,429	May 5	686	173	31	647
Valentine, David H., Brooklyn, N. Y. Railway-switch	320,900	June 23	2646	702	31	1555
Valentine, George E., New Bedford, Mass. Countersink	323,308	Dec. 15	1558	409	33	1201
Valentine, James H., Stanley, N. J. Vaporizer	323,547	Aug. 4	218	64, 65	32	562
Valentine, Newell S., assignor to Hartford Silver Plate Company, Hartford, Conn. Fluid-cooler	322,081	July 14	922	228	32	176
Valentine, Samuel W., Boston, Mass. Feeding fuel to boilers	332,975	Dec. 22	2488	658	33	1465
Valentine, William P., Painesville, Ohio, assignor of three-fourths to E. G. Wetherbee, M. J. Wilson, and W. C. Reed. Sewing-machine	328,089	Oct. 13	762	198	33	144
Valentine, William P., Painesville, Ohio, assignor of three-fourths to E. G. Wetherbee, M. J. Wilson, and W. C. Reed. Mechanical movement	328,090	Oct. 13	764	199	33	144
Vallant Button Fly Company. (See Vallant, George, assignor.)						
Vallant, George, Toronto, Ontario, Canada. Boot. (Reissue.)	10,609	Dec. 1	762	192	33	1134
Vallant, George, Toronto, Ontario, Canada, assignor to Vallant Button Fly Company, Portland, Me. Boot or shoe	330,944	Nov. 24	2019	546	33	913
Vallant, George, Toronto, Ontario, Canada, assignor to Vallant Button Fly Company, Portland, Me. Boot	330,945	Nov. 24	2020	546	33	913
Valliquet, Louis P., Mount Kisco, N. Y. Lady's tricycle	313,460	Mar. 3	529	151	30	886
Valk, Henry, Chicago, Ill. Window-sash	390,195	June 16	1670	444	31	1368
Valk, James S., et al. (See Marion, Joseph, assignor.)						
Vallee, Amedee. (See Cline, Leon, assignor.)						
Valentine, Edward. (See Hyde and Valentine.)						
Vallett, Bartholomew, Providence, R. I. Cabinet for curtains	330,645	Nov. 17	1620	436	33	831
Vallier, Louis E., Grenoble, France. Glove	328,261	Oct. 13	973	253	31	148
Van Aarle, Francis A. (See Leroux, Joseph N., assignor.)						
Van Allen, Cicero D., Brussels, Ontario, Canada. Air-tight package for butter	323,980	Aug. 11	775	216	32	676
Van Alstine, Seymour M., Melrose, Mass. Truss	328,985	Oct. 27	1973	512	33	381
Van Alstyne, Lawrence, Sharon, Conn. Combined lock and latch	327,624	Oct. 6	166	41	33	30
Van Anken, Thomas B., assignor, by means assignments, to himself and W. W. Jones, Auburn, N. Y. Steam-engine valve-gear	323,238	July 28	2492	662	32	477
Van Antwerp, Sylvester, Syracuse, N. Y. Oil-tank	320,514	June 23	2152	568	31	1462
Van Auken, Calvin E., Pleasant Lake, Ind. Flood-fence	316,854	Apr. 28	2589	679	31	490
Van Auken, J. H. (See Aspinwall, D. La Mont, assignor.)						
Van Auken, John F., Youngstown, Ohio. Thrill-coupling	318,836	May 26	2557	681	31	1015
Van Bommel, Louis, Maestricht, Holland. Watch-barrel	327,339	Sept. 29	2895	755	32	1570
Van Benschoten, Charles H., Cincinnati, Ohio. Furnace	322,215	July 14	1095	284	32	208
Van Blarcom, William D., et al. (See Norling, Charles A., assignor.)						
Van Buskirk, Roswell, Newark, N. J. Syringe-nozzle	315,860	Apr. 14	1223	319	31	229
Van Camp, Lyman, Howell, Mich. Car-coupling	323,756	Aug. 4	487	137	32	615
Van Choate, Silvanus F., New York, N. Y. Rail for electrical railways	319,041	June 2	130	36	31	1071
Van Choate, Silvanus F., New York, N. Y. Armature for dynamo-electric machines and electric motors	325,714	Sept. 8	673	169	32	1146
Van Court, Thomas M. (See Day, Florence P., assignor.)						
Van Dellinger, Luther J., and A. W. Nash, Garfield, Iowa. Spring-bed	333,363	Dec. 29	3041	794	33	1568
Van Denburgh, Jesse, Chicago, Ill. Screw-cutting machine	310,337	Jan. 6	243	66	30	46
Van Denburgh, Orville W., Schuylerville, N. Y. Painter's jack	329,243	Oct. 27	2345	607	32	448
Van Depoele, Charles J., Chicago, Ill. Electro-magnetic reciprocating engine	317,249	May 5	435	109	31	602
Van Depoele, Charles J., Chicago, Ill. Electro-magnetic reciprocating engine	320,515	June 23	2153	568	31	1463
Van Depoele, Charles J., Chicago, Ill. Cut-out for dynamo-electric machines	323,470	Aug. 4	111	32	32	542
Van Depoele, Charles J., Chicago, Ill. Regulator for incandescent electric-lighting systems	323,961	Aug. 11	777	216	32	676

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Van Depoele, Charles J., Chicago, Ill. Electric motor	323,982	Aug. 11	779	217	32	677
Van Depoele, Charles J., Chicago, Ill. Incandescent lamp	323,983	Aug. 11	780	217	32	677
Van Depoele, Charles J., Chicago, Ill. Suspended electrical conveyer	323,984	Aug. 11	781	217	32	677
Van Depoele, Charles J., Chicago, Ill. Making incandescents	324,193	Aug. 11	1085	292	32	732
Van Depoele, Charles J., Chicago, Ill. Electric railway	324,899	Aug. 25	2048	560	32	925
Van Depoele, Charles J., Chicago, Ill. Regulator for dynamo-electric machines	325,133	Aug. 25	2349	648	32	983
Van Depoele, Charles J., Chicago, Ill. Electric-current meter	325,225	Aug. 25	2473	620	32	1005
Van Depoele, Charles J., Chicago, Ill. Electric-cable conveyance	329,104	Oct. 27	2144	555	33	411
Van Depoele, Charles J., Chicago, Ill. Contact device for suspended electrical conductors	331,585	Dec. 1	515	125	33	1088
Van Depoele, Charles J., Chicago, Ill. Cable conveyance	331,851	Dec. 8	598	232 233	33	1167
Van Der Lyn, Ward. (See Buckley, William P., assignor.)						
Van Derzee, Cornelius, assignor to D. H. Mathias, Albany, N. Y. Machine for straighten-	311,213	Jan. 27	1401	383 384	30	278
ing, measuring, cutting, and counting wire						
Van Devort, Thomas S., Superior, Mich. Cabinet-reamer	318,402	May 19	1975	531	31	903
Van De Water, Joseph, assignor to G. Esterly & Son, Whitewater, Wis. Bundle-carrier						
for grain-binding machines	326,694	Sept. 23	1966	517	32	1400
Van Dorston, Alvin W., Salem, Oreg. Car-coupling	314,496	Mar. 24	1976	526	30	1169
Van Dorston, Alvin W., Portland, Oreg. Car-coupling	317,894	May 12	2474	346	31	769
Van Dorston, Alvin W., Portland, Oreg. Car-coupling	328,547	Oct. 20	1359	354 355	33	262
Van Dorston, Alvin W., East Portland, Oreg. Rotary engine	332,765	Dec. 22	2211	583	33	1413
Van Drelzen, John A., Peoria, Ill. Cooler for water and other liquids	321,666	July 7	339	90	32	64
Van Duzee, Arthur H., Leavenworth, Kans. Centrifugal separator	325,228	Sept. 1	79	23 24	32	1031
Van Duzen, Ezra W., Jr., Newport, Ky. Cooking-stove	317,895	May 12	1295	347	31	769
Van Duzer, George, New York, N. Y. System of ventilating, cooling, heating, and light-	319,358	June 2	514	140 141	31	1146
ing railway-cars and cooling their axle boxes						
Van Dyke, John M., Washington, N. J. Window-blind-slat fastener	315,861	Apr. 14	1924	320	31	229
Van Dyke, John W., Brooklyn, N. Y. Water-tube boiler	315,189	Apr. 7	297	70, 71	31	53
Van Dyke, John W., Brooklyn, N. Y. Steam-generator	315,190	Apr. 7	298	71	31	53
Van Eitten, Charles D. (See Baker, Lovett, and Van Eitten.)						
Van Fleit, Downing B. (See Coburn and Van Fleit.)						
Van Gaasbeek, Beekman, Mount Vernon, N. Y. Distribution and delivery box for post-	328,826	Oct. 20	1728	449	33	331
offices						
Van Gelder, Pieter, Sowerby Bridge, county of York, England. Separating-machine	314,497	Mar. 24	1976	526 527	30	1170
Van Gelder, Pieter, Sowerby Bridge, county of York, England. Dust-separating machine	314,498	Mar. 24	1979	527 528	30	1170
Van Gelder, Pieter, Sowerby Bridge, county of York, England. Dust-collector	326,176	Sept. 15	1275	328 329 330	32	1964
Van Gestel, Jean, and C. F. Beck, Paris, France; said Beck assignor to said Van Gestel; said Van Gestel assignor of one-third to T. S. Harrison, Philadelphia, Pa. Incandescent						
electric lamp	322,024	July 14	847	220	32	162
Van Gieson, Ransford E., Brooklyn, N. Y. Automatic clasp and lifter for photographic plates	319,359	June 2	518	141	31	1146
Van Gilder, William H. (See Bushnell and Van Gilder.)						
Van Hagen, Isaac, Chicago, Ill. Stove-platform	312,933	Feb. 24	1998	546	30	742
Van Hagen, Isaac, Chicago, Ill. Heater for the crystallization of stove-platforms	312,934	Feb. 24	1999	547	30	742
Van Hennik, Sebastian, Yonkers, N. Y. Apparatus for making and dispensing lemonade	327,418	Sept. 29	2970	775	32	1523
Van Hoesen, Eugene M., Preble, and N. H. Brown, Syracuse, N. Y. Car-coupling. (Re-	10,567	Mar. 3	600	153	30	658
issue)						
Van Hoevenbergh, Henry. (See Helvin and Van Hoevenbergh.)						
Van Hoevenbergh, Henry, Elizabeth, N. J. Preventing false signals upon reversals in	313,787	Mar. 10	1019	263	30	975
quadruplex telegraphs						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	313,786	Mar. 10	1017	262	30	975
pany, Baltimore, Md. Printing telegraph						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,676	Apr. 28	2323	609	31	440
pany, Baltimore, Md. Electro-magnet for printing-telegraphs						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,677	Apr. 28	2325	610	31	441
pany, Baltimore, Md. Printing telegraph						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,678	Apr. 28	2329	611	31	441
pany, Baltimore, Md. Printing telegraph						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,679	Apr. 28	2331	611	31	442
pany, Baltimore, Md. Printing telegraph						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,680	Apr. 28	2332	611	31	442
pany, Baltimore, Md. Page-printing telegraph						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,681	Apr. 28	2336	612	31	443
pany, Baltimore, Md. Page-printing telegraph						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,682	Apr. 28	2339	612	31	444
pany, Baltimore, Md. Type-wheel for printing-telegraphs						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,683	Apr. 28	2341	612	31	444
pany, Baltimore, Md. Type-wheel for printing-telegraphs						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,684	Apr. 28	2343	613	31	444
pany, Baltimore, Md. Type-wheel for printing-telegraphs						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,685	Apr. 28	2346	613	31	445
pany, Baltimore, Md. Platen-shifting device for printing-telegraphs						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,686	Apr. 28	2348	613 614	31	445
pany, Baltimore, Md. Transmitter for printing-telegraphs						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,687	Apr. 28	2351	614 615	31	446
pany, Baltimore, Md. Automatic governor for printing-telegraph transmitters						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,688	Apr. 28	2353	615	31	446
pany, Baltimore, Md. Pneumatic winding apparatus for printing-telegraphs						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,689	Apr. 28	2356	616	31	446
pany, Baltimore, Md. Chemical printing-telegraph						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,690	Apr. 28	2358	616	31	447
pany, Baltimore, Md. Unisoning printing-telegraphs having two type-wheels						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,691	Apr. 28	2360	616	31	447
pany, Baltimore, Md. Union device for printing-telegraphs						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,692	Apr. 28	2362	616	31	447
pany, Baltimore, Md. Inking-roller for printing-telegraph type-wheels						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,693	Apr. 28	2363	617	31	448
pany, Baltimore, Md. Chemical or fac-simile printing telegraph						
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Com-	316,694	Apr. 28	2365	617	31	448
pany, Baltimore, Md. Printing telegraphically						

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Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Company, Baltimore, Md. Winding device for printing telegraphs	316,695	Apr. 28	2368	617	31	448
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Company, Baltimore, Md. Unison for printing telegraphs	316,696	Apr. 28	2369	618	31	449
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Company, Baltimore, Md. Platen-shifting device for printing telegraphs	316,697	Apr. 28	2371	618	31	449
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Company, Baltimore, Md. Receiver for printing telegraphs	316,698	Apr. 28	2374	618 619	31	450
Van Hoevenbergh, Henry, Elizabeth, N. J., assignor to Baltimore & Ohio Telegraph Company, Baltimore, Md. Unison for printing telegraphs	316,655	Apr. 28	2600	679	31	491
Van Horn, Charles, Bethlehem, Pa. Spring-seat for vehicles	331,100	Nov. 24	2211	599	33	949
Van Horn, Charles, Bethlehem, Pa. Spring-seat for wagons	331,101	Nov. 24	2213	599	33	949
Van Horn, James C., Livermore, Cal. Wall-paper-cutting machine	312,043	Feb. 10	767	215	30	502
Van Housen, Isaac N., et al. (See Hughes, James L., assignor.)						
Van Houten, Frank H., Matteawan, N. Y. Reflector-light for baker's ovens	330,757	Nov. 17	1772	478	33	859
Van Keuren, William H., Winona, Minn. Mixed paint	332,659	July 21	1682		32	332
Van Kirk, James A., New Brunswick, N. J. Bracket	327,539	Oct. 6	435	113	33	76
Van Kleeck, John J. (See Thayer, William S., assignor.)						
Van Kuran, Isaac, Omaha, Nebr. Nut-lock	324,154	Aug. 11	1086	293	32	732
Van Leeuwen, John J., Minneapolis, Minn. Translucent picture-candy	328,867	Oct. 20	1778		33	340
Van Loven, Thomas F., Kingston, Ontario, assignor to A. Brown, Cananoque, Canada. Fence	310,624	Jan. 13	595	164	30	119
Van Matteson, Marso, Milwaukee, Wis. Harvester-rake	313,135	Mar. 3	125	31	30	800
Van Matteson, Marso, Milwaukee, Wis. One-wheel harvester	313,136	Mar. 3	128	31	30	800
Van Matteson, Marso, Milwaukee, Wis. One-wheel harvester	313,137	Mar. 3	130	32	30	800
Van Ness, Thomas E., Vailsburg, assignor to Rubber and Celluloid Harness Trimming Company, Newark, N. J. Hame and clip	324,739	Aug. 13	1815	502	32	877
Van Norman, Jacob, Easton, Pa. Drilling and tapping apparatus	314,085	Mar. 17	1424	373	31	1059
Van Nortwick, Samuel D., New York, N. Y. Printing-telegraph	329,515	Nov. 3	120	31, 32	33	528
Van Nostrand, Hazen, Gloversville, N. Y. Saw-gumner	312,935	Feb. 24	2000	547	30	742
Van Nuy, Thomas C., et al. (See Hunter, George D., assignor.)						
Van Orden, Charles H., Catskill, N. Y. Metallic railway-tie	314,357	Mar. 31	2212	615	30	1258
Van Orden, John M., New York, N. Y. Bustle	332,120	Dec. 8	1362	338	33	1239
Van Orman, Clayton M., Sherwood, Mich. Railway-tie	314,153	Mar. 17	1520	398	30	1076
Van Ruyper, Edwin J., Jersey City, N. J. Glacier's point	330,444	Nov. 17	1379	367	33	783
Van Ruyven, Cornelius R., Deventer, Netherlands. Alarm-coupling for air and steam brakes	314,752	Mar. 31	2213	615	30	1258
Van Rysselberghe, François, Schaerbeek, Belgium. Preventing interference in combined telegraphic and telephonic systems	320,987	June 30	2771	736	31	1585
Van Rysselberghe, François, Schaerbeek, Belgium. Preventing induction in telephone and telegraph lines	321,404	June 30	3306	882	31	1684
Van Rysselberghe, François, Schaerbeek, Belgium. Preventing interference in combined telegraphic and telephonic systems	322,333	July 14	1234	324	32	235
Van Rysselberghe, François, Schaerbeek, Belgium. Preventing interference in combined telegraphic and telephonic systems	323,239	July 28	2493	663	32	477
Van Rysselberghe, François, Schaerbeek, Belgium. Preventing false signals on reversals in quadruplex telegraphs	326,892	Sept. 22	2272	595	32	1453
Van Sichen, Charles M. (See Kessel, John A., assignor.)						
Van Slyke, Alexander, Fort Plain, N. Y. Combined jar-wrench and can-opener	319,645	June 9	920	243	31	1226
Van Siraaler, Alexandre, Pola de Lena, Asturias, Spain. Extracting arsenic and mercury contained in the residues obtained in the distillation of mercurial ores	320,417	June 16	2021		31	1430
Van Valkenburgh, Wells, Onida, and D. E. Teal, Onida Castle, N. Y. Caster	332,629	Dec. 15	2009	527	33	1369
Van Valkenburgh, Levi D., Polyoke, Mass. Spindle and bearing	324,000	Aug. 25	2050	560	32	926
Van Vleck, Alexander, Hart Lot, N. Y. Safety apparatus for skaters	321,667	July 7	635	164	32	116
Van Vleck, George H., Buffalo, N. Y. Device for removing the debris of a blast from the face of a tunnel	333,266	Dec. 29	2914	762	33	1546
Van Voorhies, A. A. (See Harris, Thomas, assignor.)						
Van Voorhies & Co., A. A. (See Harris, Thomas, assignor.)						
Van Wageningen, Albert, Boston, Mass. Boot or shoe	317,477	May 5	745	188	31	658
Van Wageningen, Albert, Boston, Mass. Sole-fastener	331,925	Dec. 8	1015	263	33	1188
Van Wageningen, Albert, Boston, Mass. Sole-fastener	331,926	Dec. 8	1015	263	33	1178
Van Wageningen, Garrett, Chicago, Ill. Horse-collar attachment	331,348	Dec. 1	127	31, 32	33	1021
Van Wageningen, William M., assignor to M. L. Ward, Newark, N. J. Life-raft	323,377	July 28	2698	718	32	513
Van Wie, Avery, Indianapolis, Ind. Shutter-fastener	313,261	Mar. 3	331	82	30	836
Van Wie, Avery, Indianapolis, Ind. Extensible bottom for chairs and like articles	323,610	Aug. 4	298	85	32	577
Van Wie, Peter G., Cleveland, Ohio. Check-valve	325,289	Sept. 1	81	24	32	1031
Van Winkle, Garret, North Plainfield, N. J. Knob attachment	330,692	June 23	2289	600	31	1485
Van Winkle, George H., assignor of one-half to R. W. Barney, Hornellsville, N. Y. Rake	333,267	Dec. 29	2915	763	33	1546
Van Winkle, Nat H. (See Halliday, Thomas H., assignor.)						
Van Winkle, Stephen, trustee. (See Nugent, William, assignor.)						
Van Wormer, C. L. (See Stimson, David S., assignor.)						
Van Wormer, Clemson L., Melrose, Mass. Dumping-car	311,047	Jan. 20	1158	316 317	30	228
Van Wormer, Matthew, Malden, Mass. Dumping-car	311,274	Jan. 27	1499	408 409	30	296
Van Wormer, Matthew, Malden, Mass. Dumping-car	316,507	Apr. 28	2112	556 557	31	401
Van Zandt, Irving W. (See Allen, Nicholas I., assignor.)						
Van Zandt, Jacob, assignor of two-thirds to A. J. Belden and C. Roblee, Syracuse, N. Y. Car-starter	321,405	June 30	3308	883	31	1684
Vanbriggie, Philip, Russellville, Ind. Fence-post	311,693	Feb. 3	365	83	30	406
Vance, Isaac P., West Stockholm, N. Y. Stove and boiler	322,216	July 14	1097	285	32	208
Vance, Samuel B. H., New York, N. Y. Stop-valve for gas-burners	316,675	Apr. 28	2321	609	31	440
Vance, Samuel J., Macomb, Ill. Window-screen	332,574	Dec. 15	1941	508	33	1356
Vandegrift, Andrew J., St. Louis, Mo. Cotton-gin	320,901	June 23	2647	702 703	31	1556
Vandegrift, Nathaniel W., assignor to F. Armstrong, Bridgeport, Conn. Screw-cutting machine	330,174	Nov. 10	1014	265	33	706
Vandegrift, Nathaniel W., and F. Armstrong, Bridgeport, Conn.; said Vandegrift assignor to said Armstrong. Pipe-cutter	330,175	Nov. 10	1015	265	33	706
Vandemark, Archibald B., New York, N. Y. System for heating freight-cars	326,809	Sept. 22	2157	561 572	32	1432
Vanden Bergh, Peter. (See Bonner and Vanden Bergh.)						
Vanden Bergh, Peter, Philadelphia, Pa. Metal-seaming tool for roofers, &c	329,514	Nov. 3	119	31	33	528

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Vanden Bergh, Peter, assignor of two-thirds to E. W. Richards and A. H. Mear, Philadelphia, Pa. Tinner's seaming-tool	319,761	June 9	1064	282	31	1253
Vandenburgh, George E. Stillwater, N. Y. Folding chair	315,680	Apr. 14	974	255	31	122
Vanderbilt, Lee O., and M. E. Company, Muskegon, Mich. Railway-tie	313,260	Mar. 3	330	81	30	836
Vanderburg, Robert B., Iowa Falls, Iowa. Automatic car-brake	322,082	July 14	923	239	32	176
Vandercook, Mark, W. P. Smith, and H. M. Baker, Manton, Mich. Pulley	328,732	Oct. 20	1622	422	33	310
Vanderman, William, Willimantic, Conn. Steam-trap	310,967	Jan. 20	1049	285 286	30	207
Vanderman, William, Willimantic, Conn. Automatic air-valve	312,042	Feb. 10	786	214 215	30	502
Vandernoth, Peter, New York, N. Y. Self-opening lid for cabinets, &c.	326,810	Sept. 22	2158	562	32	1432
Vandewalker, Herbert K., Pamela Four Corners, N. Y. Hay-carrier	311,545	Feb. 3	119	35	30	371
Vanduzen, Ezra W., Newport, Ky. Device for purifying the water of boilers	328,548	Oct. 30	1362	356	33	263
Vanduzen, Ezra W., Newport, Ky. Boiler-tube cleaner	330,443	Nov. 17	1377	367	33	792
Vanes, John, Brazil, Ind. Gilder	327,360	Sept. 29	2896	756	32	1570
Vanece, Garret J. (See Chamberlain, Henry, assignor.)						
Vanhorne, Daniel A., Orange, N. J. Body and seat for vehicles	314,499	Mar. 24	1980	528 529	30	1171
Vann, William T., Salem, Oreg. Attachment for operating gates	314,632	Mar. 31	2158	573	30	1229
Vanness, Jacob S., Newark, N. J. Dock	312,234	Feb. 10	1055	290	30	551
Vannice, Peter T., Clarinda, assignor of one-half to J. T. Wickersham, Red Oak, Iowa. Plaiting-board	325,994	Sept. 8	1027	261	32	1211
Vanorman, Oliver, assignor of one-half to H. Clark, Racine, Wis. Whiffletree-iron	330,530	Nov. 17	1425	397	33	803
Vanorman, Oliver, Rockford, Ill., assignor of one-half to H. W. Hurlbut, Racine, Wis. Wagon-tongue iron	332,766	Dec. 22	2213	583	33	1413
Vansize, William B., Boston, and T. D. Lockwood, Malden, Mass. Automatic circuit changer and alarm	313,841	Mar. 10	1091	224	30	966
Vantaasel, John H., New York, N. Y. Glove-fastening	311,391	Jan. 27	1658	453	30	325
Vardell, William B., assignor of one-half to J. Von Oven, Charleston, S. C. Rice-cleaning machine	326,532	Sept. 15	1742	454	32	1352
Varian, Samuel T., East Orange, N. J. Screen for coal, &c.	313,262	Mar. 3	332	82	30	836
Varian, Samuel T., East Orange, N. J. Screen for coal, &c.	319,149	June 2	263	69	31	1096
Varley, John J., Merton, county of Surrey, England. Plastic composition	321,548	July 7	199		32	39
Varley, John J., Phenix Villas, Merton, county of Surrey, England. Seating for bottle-stoppers	325,776	Sept. 8	758	199	32	1162
Varney, Al, New Market, N. H. Tailor's pressing-machine	322,217	July 14	1098	285	32	209
Varney, Nicholas R., Waltham, Mass. Stem winding and setting watch	323,985	Aug. 11	782	217	32	677
Varnum, George W., Montgomery City, Mo. Centering-tool	311,619	Feb. 3	213	60	30	389
Vaughan, Aaron C., Shane's Crossing, Ohio. Nut-lock	312,677	Feb. 24	1662	458	30	629
Vaughan, David E., Monongahela City, Pa. Railway-frog	329,979	Nov. 10	751	192	33	632
Vaughan, Elbert J., assignor of two-thirds to T. G. Guthrie and J. P. Owens, Louisville, Ky. Carburetor	312,774	Feb. 24	1795	494	30	706
Vaughan, Frank, Elizabeth City, N. C. Car-coupling	314,403	Mar. 24	1844	491	30	1147
Vaughan, George A., Lockesburg, Ark. Attachment to stoves for heating air	312,678	Feb. 24	1663	458	30	629
Vaughan, James, Danbury, Conn. Road-wagon	333,364	Dec. 29	3042	794	33	1568
Vaughan, John T., Leicester, England. Stand and tilter for casks	324,436	Aug. 18	1409	364	32	800
Vaughan, Thomas, Millvale, Pa. Composition for gravel or granite roofing, &c.	310,625	Jan. 13	596		30	119
Vaughan, William W., et al. (See Miller, Samuel L., assignor.)						
Vaughn, James W., Greenville, Pa. Running-gear for vehicles	313,392	Mar. 3	493	129	30	868
Vaughn, Walter W., and E. D. Eldridge, Stockton, Cal., assignors to themselves, W. W. Paddock, H. W. Devoll, E. E. and C. A. Eldridge, J. B. Webster, and A. Clark. Generating steam by electricity	314,277	Mar. 24	1677	447	30	1114
Veasey, Duncan, et al. (See Harrison, Arthur B., assignor.)						
Veazie, Edward W. (See Buck, Edward A., assignor.)						
Vedder, Lewis H. (See Maxwell, Albert M., assignor.)						
Vedder, Nicholas A., Providence, R. I. Thill-support	317,597	May 12	900	231	31	694
Veeder, Curtis H., Bethlehem, Pa., and J. I. Veeder, Omaha, Nebr. Velocipede	312,407	Feb. 17	1297	358	30	605
Veeder, John I. (See Veeder, Curtis H. and J. I.)						
Vehr, John H., and J. Kirby, Cincinnati, Ohio. Beer-ventilator	327,040	Sept. 29	2469	644 645	32	1495
Velders, Anton. (See Lauer and Velders.)						
Veit, Charles F., et al. (See Conard, Léon P., assignor.)						
Veit, Charles F., London, England. Mechanical movement	324,280	Aug. 11	1195	324	32	733
Veit, Charles F., London, England. Combined ornamental chain-link and cigar-cutter	324,281	Aug. 11	1196	325	32	733
Veit, Charles F., London, England. Lock	325,028	Aug. 25	2216	608	32	957
Veit, Charles F., London, England. Trunk-lock	325,995	Sept. 8	1028	261	32	1212
Veit, Charles F., London, England. Button	327,906	Oct. 6	514	133	33	92
Veit, Charles F., London, England. Button	327,907	Oct. 6	514	134	33	92
Veit, Charles F., London, England. Lock	329,976	Dec. 22	2491	659	33	1465
Venable, William T., Christiansburg Precinct, Ky. Washing-machine	328,262	Oct. 13	974	254	33	185
Venell, A. V. (See Orchard, Henry, assignor.)						
Venners, James H., Philadelphia, Pa. Bowling-hoop	324,344	Aug. 11	1284	348	32	709
Venson, John S., Four Mile, N. Y. Vent for steam-pipes	310,338	Jan. 6	244	67	30	46
Vent, Henry, Chicago, Ill. Stem-winding device for watches	318,329	May 19	1878	504	31	886
Verbeck, William, Oakland, Cal. Photographic and card file	316,586	Apr. 28	2211	581	31	490
Vermilyea, Eugene, et al. (See Norris, Charles E., assignor.)						
Vermilyea, Le Roy, et al. (See Norris, Charles E., assignor.)						
Vermont Farm Machine Company. (See Butler, Francis G., assignor.)						
Vermont Farm Machine Company. (See King, Henry F., assignor.)						
Vermont Farm Machine Company. (See Williams, Nathan G., assignor.)						
Vernon, Miles, Brooklyn, N. Y. Tag	329,980	Nov. 10	753	192	33	653
Vernon, Miles, Brooklyn, N. Y. Tag	329,981	Nov. 10	754	193	33	653
Vernon, William G., Philadelphia, Pa. Bolt-shifter	313,035	Feb. 24	2142	562	30	767
Versepuy, Victor E. (See Portebois, Louis F., assignor.)						
Vescelina, Aaron H. (See Fenton, Charles, assignor.)						
Vessier, Hippolyte, and A. Wilbaux, Paris, France. Cold process of manufacturing paper-pulp and bleached or unbleached textile fabric	323,378	July 28	2699	718	32	513
Vestal, James R., Cave Spring, Mo. Washing-machine	328,091	Oct. 13	765	199	33	144
Vester, Adolph, Providence, R. I. Bracelet	313,036	Feb. 24	2143	563	30	767
Vetsburg, Sigmund, assignor of one-half to J. Urban, Jefferson City, Mo. Fastening for shoes	314,550	Mar. 24	2043	545	30	1181
Vetter, Caspar, assignor to H. Sulzer, Louisville, Ky. Casing for casting stove-door catches	321,549	July 7	200	53	32	39
Vetter, Joseph C., New York, N. Y. Induction-coil for medical use	330,531	Nov. 17	1486	397	33	803

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Vezin, Oscar, Elizabeth, N. J. Ice-machine.	328,624	Oct. 30	1478	386	33	283
Viaduct Manufacturing Company of Baltimore. (See Bauer, Alexander C., assignor.)						
Vibbard, Eliza J., et al. (See Horning, William, assignor.)						
Vickers, Albert, et al. (See Maxim, Hiram S., assignor.)						
Vickers, John H. (See Minnitt and Vickers.)						
Vickery, William P., East Auburn, Me. Car-starter.	330,946	Nov. 24	2021	546	33	913
Victor Adjustable Truck Roller Skate Company. (See Cornelius, Wilber F., assignor.)						
Videto, Theodore H. (See Hunt, Leander B., assignor.)						
Vieah, John A. Gainesville, Tex. Motor.	312,307	Feb. 17	1107	319	30	581
Viggers, William. (See Merrill and Viggers.)						
Viggers, William, Des Moines, Iowa. Fan for ventilating mines, &c.	328,549	Oct. 20	1366	356	33	263
Vignon, Leo, Lyons, France. Obtaining coloring-matter from amidoazo-benzol and homologues.	319,646	June 9	921	.....	31	1296
Vignon, Leo, Lyons, France. Manufacture of coloring-matter from alpha-naphthol and dinitro-naphthol.	394,615	Aug. 18	1651	.....	32	845
Villero, Eugene M., Schramberg, Württemberg, Germany. Crushing-mill.	318,670	May 26	2333	693	31	977
Vincent, George, assignor of one-half to G. W. Haines, Stockton, Cal. Pneumatic door-check.	329,763	July 21	1818	481	32	347
Vincent, Henry H. B., Minneapolis, Minn. Damper.	329,403	July 14	1335	347	32	253
Vincent, Samuel E., Bridgeport, Conn. Barrel-cover holder.	328,177	Sept. 15	1981	330	32	1863
Vinson, Michael R., Hope, Ark. Feed-cutter.	331,464	Dec. 1	303	81	33	1052
Vinton, John H., Boston, Mass., assignor to Peninsular Novelty Company, Grand Rapids, Mich. Button-fastening staple.	324,053	Aug. 11	871	940	32	692
Vinton, John H., Boston, Mass., assignor to Peninsular Novelty Company, Grand Rapids, Mich. Button-setting machine.	328,365	Oct. 13	1113	288	33	211
Vinton, John H., Boston, Mass., assignor to Peninsular Novelty Company, Grand Rapids, Mich. Button-setting instrument.	332,977	Dec. 22	2492	659	33	1465
Vinton, John J., Youngstown, Ohio. Fence-post.	317,496	May 12	1297	347	31	769
Vinton, Thomas J., Holly, Mich. Bolt-cutter.	318,525	May 26	2140	576	31	943
Virneisel, Ludwig, Mannheim, Baden, Germany. Manufacturing hydrated grape-sugar.	310,339	Jan. 6	945	.....	30	46
Visger, Elisha W., Alexandria Bay, N. Y. Ash-receptacle for furnaces.	323,986	Aug. 11	783	218	32	678
Vlascher, Frederick, Mount Sterling, Ky. Knife for harvesting tobacco.	316,924	Apr. 28	2702	704	31	509
Vivier, Joseph, Brussels, Belgium. Stringing pianos.	325,189	Aug. 25	2424	606	32	996
Voelker, William L., assignor to J. H. Irwin, Morton, Pa. Telephone.	315,862	Apr. 14	1225	330	31	229
Voeth, Robert. (See Schulte, Dietrich, assignor.)						
Vogel, Charles W., Centreville, Ind. Arm-chair and writing-desk.	310,626	Jan. 13	596	164	30	120
Vogel, Ernest, New Lots, assignor to Miles Brothers & Co., New York, N. Y. Treating fiber for the manufacture of brushes, &c.	331,852	Dec. 8	901	233	33	1167
Vogel, John B., assignor to himself, E. Dreifus, C. L. A. De Vaux, New Orleans, La. S. Goldstein, Sallia, Miss., and W. L. Bowron, New York, N. Y. Machine for separating fibers from plants.	324,054	Aug. 11	872	{ 240 241 }	32	692
Vogel, Karl W., New York, N. Y. Filtering apparatus.	316,925	Apr. 28	2703	704	31	510
Vogel, Louis D., Boone, Iowa. Adjustable roof.	312,559	Mar. 10	713	186	30	919
Vogel, William, assignor to A. Zeller, Chicago, Ill. Electric alarm for locomotives.	330,074	Nov. 10	229	230	33	620
Vogel, William, assignor to A. Zeller, Chicago, Ill. Railway telegraph.	333,178	Dec. 29	2789	730	33	1522
Vogelsang, Alexander, Philadelphia, Pa., assignor of one-half to T. I. Dixon, Brooklyn, N. Y. Screw-propeller.	332,308	Dec. 15	1558	409	33	1291
Vogt, Axel S. (See Cloud and Vogt.)						
Vogt, Carl, et al. (See Haugk, Carl H., assignor.)						
Vogt, Heinrich, Würzburg, assignor of one-half to W. Braun, Frankfort-on-the-Main, Germany. Automatic lathe.	329,105	Oct. 27	2147	{ 555 556 }	33	411
Vogt, Henry F., et al. (See Ebel, John V., assignor.)						
Vogt, Max G., Sr., New York, N. Y. Wire-nail machine.	319,150	June 2	984	69, 70	31	1096
Voit, William, Magdeburg, Prussia, Germany. Valve-gear for engines.	319,433	June 2	618	{ 167 168 }	31	1166
Volk, Jacob, assignor of one-half to C. Wendemuth, St. Louis, Mo. Car-pedestal.	312,461	Mar. 3	590	151	30	826
Voll, George, assignor to T. S. Ireland, Cincinnati, Ohio. Mortise-lock.	332,439	Dec. 22	2316	613	33	1432
Voll, George, assignor, by mesne assignments, to Ireland Manufacturing Company, Cincinnati, Ohio. Face-plate for locks.	333,434	Dec. 29	3130	818	33	1522
Vollbrecht, Heinrich, and C. Mensching, assignors to Schoellkopf Aniline and Chemical Company, Buffalo, N. Y. Manufacture of color-producing acids.	333,034	Dec. 22	2586	.....	33	1462
Vollbrecht, Heinrich, and C. Mensching, assignors to Schoellkopf Aniline and Chemical Company, Buffalo, N. Y. Coloring-matter derived from alphanaphtholdisulphonic acid.	333,035	Dec. 22	2587	.....	33	1462
Vollbrecht, Heinrich, and C. Mensching, assignors to Schoellkopf Aniline and Chemical Company, Buffalo, N. Y. Nitronaphtholsulphonic acid.	333,036	Dec. 22	2588	.....	33	1463
Vollbrecht, Heinrich, and C. Mensching, assignors to Schoellkopf Aniline and Chemical Company, Buffalo, N. Y. Manufacture of dye-stuff from naphthol.	333,037	Dec. 22	2590	.....	33	1462
Vollbrecht, Heinrich, and C. Mensching, assignors to Schoellkopf Aniline and Chemical Company, Buffalo, N. Y. Manufacture of dye-stuff from naphthol.	333,038	Dec. 22	2591	.....	33	1462
Vollbrecht, Heinrich, and C. Mensching, assignors to Schoellkopf Aniline and Chemical Company, Buffalo, N. Y. Coloring-matter derived from diazobenzol and alphanaphtholdisulphonic acid.	333,039	Dec. 22	2592	.....	33	1462
Vollbrecht, Heinrich, and C. Mensching, assignors to Schoellkopf Aniline and Chemical Company, Buffalo, N. Y. Alphanaphtholsulphonic acid.	333,040	Dec. 22	2593	.....	33	1462
Vollbrecht, Heinrich, and C. Mensching, assignors to Schoellkopf Aniline and Chemical Company, Buffalo, N. Y. Coloring-matter derived from diazobenzol and alphanaphthol.	333,041	Dec. 22	2594	.....	33	1462
Vollbrecht, Heinrich, and C. Mensching, assignors to Schoellkopf Aniline and Chemical Company, Buffalo, N. Y. Coloring-matter derived from alphanaphthol and diazotoluol.	333,042	Dec. 22	2595	.....	33	1462
Vollery, François, Washington, D. C. Weed-extractor.	316,064	Apr. 21	1532	400	31	291
Vollrath, Ernst H., and J. C. McCready, St. Louis, Mo. Alarm-lock for tills.	310,627	Jan. 13	596	165	30	120
Vom Hofe, Julius, Brooklyn, N. Y. Fishing-reel.	330,811	Nov. 17	1840	496	33	872
Von Auw, Otto. (See Hützgens, Joseph, assignor.)						
Von Bonhorst, Leonhard. (See Thormann and Von Bonhorst.)						
Von der Heydt, Hermann, Chicago, Ill. Self-winding watch.	332,021	Dec. 8	1144	{ 299 300 }	33	1212
Von der Heydt, Hermann, assignor to himself and C. Muller, Chicago, Ill. Self-winding watch. (Release.)	10,613	June 16	2070	544	31	1439
Von Dormus, Georg. (See Salvator and Von Dormus.)						
Von Förster, Max, Berlin, Prussia, Germany. Coating gun-cotton.	315,357	Apr. 7	513	.....	31	93
Von Förster, Max, Berlin, Germany. Shell.	333,091	Dec. 22	2662	696	33	1494
Von Hollen, John, Charleston, S. C. Shutter-bolt.	315,681	Apr. 14	975	255	31	153
Von Hollen, John, Charleston, S. C. Shutter-fastener.	315,979	Apr. 14	1393	361	31	258
Von Kopal, Wilhelm, et al. (See Czvetkovics, Mitar D., assignor.)						
Von Lackum, Peter, Waterloo, Iowa. Curtain-fixture.	312,532	Feb. 17	1479	404	30	638

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Von Malkowsky, Robert, New York, N. Y. Velocipede.....	310,548	Jan. 6	500	138	30	96
Von Martini, Friedrich, Frauenfeld, Switzerland. Paper-folding machine.....	316,314	Apr. 21	1833	482 483 484	31	345
Von Martini, Friedrich, Frauenfeld, Switzerland. Embroidering-machine.....	332,024	Dec. 8	1152	300 301 302	33	1213
Von Miller, Wilhelm. (See Doebner and Von Miller.)						
Von Oven, Ernest, Naperville, Ill. Dumping-vehicle.....	327,505	Sept. 29	3071	800	32	1601
Von Oven, John. (See Vardell, William B., assignor.)						
Von Palstring, Franz, Kollitz, near Coswig, Saxony, Germany. Tricycle. (Reissue).....	10,624	July 14	1337	348	32	254
Von Pittler, Wilhelm, Leipzig, assignor to Wezel & Naumann, Rendnitz, Leipzig, Germany. Artificial lithographic stone.....	326,254	Sept. 15	1393	362	32	1266
Von Rom, Herman, Stuttgart, Wurttemberg, Germany. Refrigerator.....	331,349	Dec. 1	129	33	33	1021
Von Rosé, Joachim, Breslau, Germany. Manufacture of beer.....	315,920	Apr. 14	1394		31	256
Von Schmidt, Alexey W., San Francisco, Cal. Discharge-pipe for dredging-machines.....	326,072	Sept. 8	1139	229	32	1232
Von Thurn, Jacob. (See Mitchell and Von Thurn.)						
Vonderlehr, Frederick. (See Emmerich and Vonderlehr.)						
Voorhes, John K., Pella, Iowa. Check-row attachment for corn-planters.....	315,981	Apr. 14	1395	362	31	259
Voorhies, Cornelius C. (See Otterson and Voorhies.)						
Voorhies, Calvin. (See Shenfield and Voorhies.)						
Vosburgh, Jacob, assignor to N. O. Nelson Manufacturing Company, St. Louis, Mo. Drive-well point.....	321,550	July 7	901	53	32	40
Vosburgh, Reuben, Oregon, Ill. Combined anvil, vise, and drill.....	326,550	Oct. 20	1367	356	33	963
Vosburgh, Reuben, assignor of one-half to S. D. Wallace, Oregon, Ill. Sash-weight.....	326,073	Sept. 8	1140	290	32	1232
Vose, Ambrose S. (See Kendall and Vose.)						
Vose, Clarence. (See Rogers and Vose.)						
Vose, Richard, New York, N. Y. Car-spring.....	330,445	Nov. 17	1380	367	33	793
Vose, Richard, New York, N. Y. Car-spring.....	330,446	Nov. 17	1381	368	33	793
Vose, Richard, assignor to J. C. N. Gumbert, New York, N. Y. Rack or fire-hose holder.....	320,727	June 23	2427	643	31	1515
Vote, Gns. <i>et al.</i> (See Bartels, William H., assignor.)						
Voitte, B. T. (See Goutevenier, Peter, assignor.)						
Vreeland, Aaron, Cedar Grove, N. J. Gas burner.....	326,358	Sept. 15	1533	398	32	1312
Vreeland, Aaron, Cedar Grove, N. J. Velocipede.....	327,125	Sept. 29	2568	674	32	1516
Vreeland, Cyrus E. (See Paul, George D., assignor.)						
Vreeland, Jacob H., Jersey City, N. J. Apparatus for removing and replacing car-wheels.....	314,895	Mar. 31	2529	680 679	30	1297
Vrooman, William P., Johnstown, N. Y., assignor to J. R. Torrey, Worcester, Mass. Combined stock and sample show-case.....	331,171	Nov. 24	2318	622	33	968
Vuitton, Georges, Paris, France. Combined trunk and camp-bedstead.....	325,879	Sept. 8	825	223	32	1185
Vulcanized Fibre Company. (See Taylor, Franklin, assignor.)						
Waas, Henry, San Francisco, Cal. Bung-cutter.....	314,066	Mar. 17	1427	373	30	1059
Wacker, George G., New York, N. Y. Electric organ-action.....	326,359	Sept. 15	1534	398	32	1313
Wackenhagen, George, Brooklyn, N. Y. Surgical needle.....	312,408	Feb. 17	1298	358	30	606
Wackerman, Edward H. (See Dangler and Wackerman.)						
Wackerman, Joseph, Warren, Pa. Snow-plow.....	325,029	Aug. 25	2217	608 609	32	957
Wadack, Leo, and A. Gaffy, Berlin, Germany. Hydraulic door-check.....	322,218	July 14	1699	225	32	209
Waddell, James O., Elizabeth, assignor to Waddell Manufacturing Company, Newark, N. J. Cushion for water-pipes.....	315,453	Apr. 7	650	168	31	116
Waddell Manufacturing Company. (See Waddell, James O., assignor.)						
Waddell, William, Orange, Mass. Turbine water-wheel.....	322,764	July 21	1819	481	32	347
Wade, Harry. (See Barrow and Wade.)						
Wade, Harry. (See Jay and Garvey, assignors.)						
Wade, J. Augustine, Cambridge, and H. D. Stone, Boston, assignors to Cambridgeport Diary Company, Cambridge, Mass. Machine for rounding the backs of books.....	317,689	May 12	1022	265	31	717
Wade, Joseph M., New York, N. Y. Ornamenting surfaces of wood, &c.....	322,219	July 14	1100		32	209
Wade, Lancelott D., Pnyallup, Wash. Ter. Gate.....	316,315	Apr. 21	1838	485	31	346
Wadhams, Edward A., assignor of one-half to E. E. Magie, Milwaukee, Wis. Lubricating-cup.....	316,202	Apr. 21	1690	443	31	320
Wadleigh, Harvey M. (See Goodhue, George J., assignor.)						
Wadsworth, Benjamin F., <i>et al.</i> (See Carson and Sherman, assignors.)						
Wadsworth, Samuel B., <i>et al.</i> (See Carson and Sherman, assignors.)						
Wagenführ, Charles, Brooklyn, N. Y. Manufacture of imitation bronze-plates for book-covers, furniture-panels, &c.....	312,044	Feb. 10	788	215	30	502
Wagener, Samuel L., Nepean, county of Carlton, Ontario, Canada. Washing-machine.....	316,203	Apr. 21	1690	443	31	320
Wagonet, Henry W., <i>et al.</i> (See Brunck and Marsh, assignors.)						
Wagonet, John H., <i>et al.</i> (See Brunck and Marsh, assignors.)						
Wagonhurst, John H., Dewart, Pa. Roof double-seaming machine.....	331,586	Dec. 1	517	125	33	1088
Wager, Gebhard, Union City, Pa. Wine and cider press.....	312,235	Feb. 10	1056	290	30	551
Waggoner, Benjamin F., Litchfield, Ill. Feed-rack.....	325,461	Sept. 1	329	80	32	1078
Waggoner, Benjamin F., Litchfield, assignor to himself and E. L. Waggoner, Hillsborough, Ill. Machine for packing soil beneath the surface.....	328,263	Oct. 13	975	254	33	185
Waggoner, Edward L. (See Waggoner, Benjamin F., assignor.)						
Waggoner, Edward L., <i>et al.</i> (See Coe, Charles E., assignor.)						
Waggoner, W. Preston, Decatur, Ill. Device for converting pool-tables into billiard-tables.....	328,092	Oct. 13	766	200	33	145
Wagnalls, Adam W. (See Ludlow, Funk, and Wagnalls.)						
Wagner, Anton, assignor to J. L. Borsch, Philadelphia, Pa. Lens for optical instruments.....	326,255	Sept. 15	1393	363	32	1226
Wagner, Christian W., <i>et al.</i> (See Calcly, Edward L., assignor.)						
Wagner, Emil, assignor to Patent Revolving Window Sash Company, Cincinnati, Ohio. Window.....	313,138	Mar. 3	131	32	30	801
Wagner, Franz X., assignor to S. T. Smith and H. H. Unz, New York, N. Y. Type-writing machine.....	326,178	Sept. 15	1222	330 331	32	1265
Wagner, George W., <i>et al.</i> (See Carlyle, George, assignor.)						
Wagner, Gustavus G., Mount Vernon, N. Y. Weather-strip.....	311,392	Jan. 27	1659	453	30	325
Wagner, Henry, <i>et al.</i> (See Nutting, Adrain, assignor.)						
Wagner, John, <i>et al.</i> (See Ackermann, George, assignor.)						
Wagner, John, Boston, Mass. Apparatus for wiring sheet-metal pans.....	320,020	June 16	1442	378	31	1336
Wagner, John and W. Coe Ridge, Ohio. Animal hitching and releasing device.....	325,462	Sept. 1	330	80	32	1078
Wagner, John A., Middletown, Ohio. Chemical fire-extinguisher.....	321,161	June 30	2996	794	31	1625
Wagner, John W., <i>et al.</i> (See Carlyle, George, assignor.)						
Wagner, Julius, Reading, Pa. Harness-hook.....	310,235	Jan. 6	92	25	30	20
Wagner, Julius, Reading, Pa. Harness-loop clamp.....	312,679	Feb. 24	1664	458	30	663

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Wagner, Julius, Reading, Pa. Buckle.....	318,050	May 19	1522	408	31	819
Wagner, Julius, Reading, Pa. Roll for harness loop-tugs.....	322,570	July 21	1575	415	32	301
Wagner, Louis A. C., et al. (See Carlyle, George, assignor.)						
Wagner, Omar P., and O. E., Pontiac, Ill. Grain-measuring apparatus.....	315,682	Apr. 14	976	{ 255 256 }	31	183
Wagner, Oscar E. (See Wagner, Omar P. and O. E.)						
Wagner, Peter, assignor to F. C. Gilmore, Chicago, Ill. Car-seal.....	318,060	May 19	1523	408	31	819
Wagner, Phil. J., Endora, Kans. Fence.....	332,121	Dec. 8	1303	338	33	1239
Wagner, Philip D., Dayton, Ohio. Track.....	322,660	July 21	1683	446	32	322
Wagner, Rupert (See Hill, Charles F., assignor.)						
Wagner, William. (See Wagner, John and W.)						
Wagner, William, et al. (See Caley, Edward L., assignor.)						
Wahl, Christian. (See Natanson, Adam, assignor.)						
Wallis, Josiah S., Florence, Kans. Clothes-line.....	330,646	Nov. 17	1621	436	33	831
Wainman, Alfred J., New Hartford, assignor to Mohawk Valley Scotch Cap Factory, Utica, N. Y. Narrowing-comb for knitting-machines.....	317,508	May 12	901	231	31	694
Wainwright, Ellis, St. Louis, Mo., assignor to De La Vergne Refrigerating Machine Company, New York, N. Y. Apparatus for cooling beer, &c.....	325,996	Sept. 8	1022	262	32	1212
Wainwright, Ira, New York, N. Y. Height-measure for horses.....	325,134	Aug. 25	2351	648	32	983
Wainwright, Jacob T., Homestead, Pa. Rolling-mill.....	324,222	Aug. 11	1196	325	32	753
Wainwright, John W., assignor of one-half to A. B. Pullman, Chicago, Ill. Draft-equalizer.....	317,897	May 12	1298	347	31	770
Wainwright Manufacturing Company. (See Duffy, Thomas W., assignor.)						
Wais, Christian, Newport, Ky. Sheet-metal-cutting machine.....	312,236	Feb. 10	1056	{ 290 291 }	30	551
Wait, Oscar E., assignor to P. W. Gould, Springfield, Vt. Wooden mallet, &c.....	311,155	Jan. 20	1315	362	30	256
Waite, Benjamin C., Brooklyn, N. Y. Steam-engine.....	322,909	July 28	2163	574	32	416
Waite, Benjamin C., Brooklyn, N. Y. Piston-packing.....	331,219	Nov. 24	2392	647	33	980
Waite, Charles N., Medford, Mass. Distilling lactic acid.....	321,925	July 7	709	.....	32	129
Waite, Charles N., Medford, Mass. Soldering-fluid.....	325,579	Sept. 1	484	.....	32	1108
Waite, Charles N., Medford, Mass. System of inclined troughs with inclosed steam-pipes for evaporating saline or saccharine liquids.....	331,587	Dec. 1	518	125	33	1088
Waite, Charles N., Medford, Mass., assignor to Avery Lactate Company, Portsmouth, N. H. Laxative compound.....	320,572	Nov. 17	1487	.....	33	604
Waite, Enoch, Franklin, Mass. Packing for axle-boxes.....	326,179	Sept. 15	1283	331	32	1265
Waite, Frederick, and F. H. Tidgewell, Hartford, Conn. Taper-measuring tool.....	318,526	May 26	2141	576	31	943
Waite, Gilman, et al. (See Bosawen, William, assignor.)						
Waite, Gilman, et al. (See Odell, Benjamin C., assignor.)						
Waite, Hamilton D., Watertown, N. Y. Snow-shovel.....	321,326	June 30	3198	853	31	1664
Waite, Henry E. (See Ethridge, Martin V. B., assignor.)						
Waite, Henry E., New York, N. Y. Ear-tube.....	312,308	Feb. 17	1168	319	30	581
Waite, Henry E., New York, N. Y. Telephone-transmitter.....	312,409	Feb. 17	1299	359	30	606
Waite, Henry E., New York, N. Y. Switch-board.....	312,410	Feb. 17	1300	359	30	606
Waite, Henry E., New York, N. Y. Magneto-telephone.....	316,206	Apr. 21	1694	444	31	321
Waite, Henry E., New York, N. Y. Magneto-telephone.....	318,058	May 19	1521	407	31	819
Waite, Henry E., New York, N. Y. Electric telephone.....	319,042	June 2	131	36	31	1072
Waite, Henry E., New York, N. Y. Telephone apparatus.....	319,043	June 2	132	36	31	1072
Waite, Henry E., assignor to C. F. Livermore, trustee, New York, N. Y. Telephone.....	310,751	Jan. 13	757	206	30	149
Waite, Henry E., assignor to C. F. Livermore, New York, N. Y. Annunciator.....	325,463	Sept. 1	332	80	32	1078
Waite, Henry E., assignor to C. F. Livermore, trustee, New York, N. Y. Telephone.....	327,625	Oct. 6	168	41	33	30
Waite, Henry E., and S. H. Bartlett, New York, N. Y. Microphone.....	316,204	Apr. 21	1692	444	31	321
Waite, Henry E., and S. H. Bartlett, New York, N. Y. Magneto-telephone.....	316,205	Apr. 21	1693	444	31	321
Waite, Henry E., and S. H. Bartlett, assignors to C. F. Livermore, trustee, New York, N. Y. Apparatus for operating electric bells.....	313,788	Mar. 10	1022	263	30	976
Waite, Henry E., and S. H. Bartlett, assignors to C. F. Livermore, trustee, New York, N. Y. Apparatus for operating electric bells.....	313,789	Mar. 10	1023	263	30	976
Waite, Russell P., et al. (See Kizer, Isaac H., assignor.)						
Wakefield, Clovia W. (See Wohlfarth and Wakefield.) (Reissue.)						
Wakefield, John E., Worcester, Mass. Rocking-chair.....	321,063	June 30	2878	765	31	1804
Wakeford, William H., Baltimore, Md. Roller grinding-mill.....	310,236	Jan. 6	93	25, 26	30	20
Wakeford, William H., Baltimore, Md. Roller grinding-mill.....	321,551	July 7	202	53	32	40
Wakeford, William H., Baltimore, Md. Gravity-separator.....	321,552	July 7	202	53	32	40
Wakeley, Seth J., New York, N. Y. Die or nipple holder.....	314,087	Mar. 17	1428	373	30	1059
Wakeley, Seth J., New York, N. Y. Gas-governor.....	322,083	July 14	924	239	32	176
Wakeman & Co., C. E. (See Alexander, Samuel G., assignor.)						
Walden, Frank D., assignor to Bradley & Metcalf, Milwaukee, Wis. Bracing or staying attachment for button-hole sewing-machines.....	326,811	Sept. 22	2150	562	32	1432
Walden, Joseph, Orange, N. J. Inside stay for shoes.....	310,340	Jan. 6	246	67	30	46
Walden, Joseph, Orange, N. J. Strap for boots or shoes.....	331,927	Dec. 8	1016	264	33	1188
Waldron, Charles F., Boston, Mass. Carriage-lamp.....	333,365	Dec. 29	3043	794	33	1568
Waldron, Charles P., New York, N. Y. Oscillating steam-engine.....	316,207	Apr. 21	1694	445	31	321
Waldron, John, New Brunswick, N. J. Hanging-up and carrying-off machine for wall-paper manufacturers' use.....	322,765	July 21	1820	481	32	347
Waldron, John, New Brunswick, N. J. Hanging-up and carrying-off machine for wall-paper.....	322,871	July 21	1870	{ 521 522 }	32	374
Waldstein, Martin E., and A. Müller, New York, N. Y. Composition of matter to be used in dyeing.....	330,275	Nov. 10	1137	.....	33	730
Wales, Alexander D., et al. (See Briggs, Oscar E., assignor.)						
Wales, Arthur, Minneapolis, Minn. Pipe-organ.....	324,437	Aug. 18	1410	384	32	800
Wales, Frederick N. (See Bobrick, Gabriel A., assignor.)						
Wales, Herbert E., Haverhill, Mass. Dental file holder or carrier.....	315,575	Apr. 14	844	222	31	157
Wales, William A., assignor to A. N. Clark, Plainville, Conn. Check-rein fastener.....	320,728	June 23	2428	644	31	1515
Walker, Addison C., Merrill, Wis. Harness-buckle.....	311,393	Jan. 27	1660	453	30	325
Walker, Albert H., Elio, Md. Thrashing-machine.....	316,587	Apr. 28	2211	582	31	420
Walker, Albert H., Brooklyn, N. Y. Mechanism for feeding boards to be printed.....	324,195	Aug. 11	1086	293	32	733
Walker, Alonzo B., Canton, Ohio. Door-check.....	310,752	Jan. 13	758	207	30	149
Walker, Asa O., Erie, Pa. Machine for setting spiral springs.....	314,330	May 19	1879	505	31	886
Walker, Benjamin F., Allentown, N. Y. Thread-cutter.....	324,616	Aug. 12	1652	455	32	845
Walker, C. Irvine, assignor to Stoney Landing Company, Charleston, S. C. Manufacture of artificial-stone compositions.....	311,156	Jan. 20	1316	.....	30	256
Walker, C. Irvine, assignor to Stoney Landing Company, Charleston, S. C. Apparatus for the manufacture of artificial stone.....	311,694	Feb. 3	306	83, 84	30	406
Walker, C. Irvine, and F. J. Jervey, assignors to Stoney Landing Company, Charleston, S. C. Press for plastic material for building-blocks.....	323,757	Aug. 4	488	138	32	615

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Walker, Charles F., Oak Park, and M. Ransom, Chicago, Ill.; said Ransom assignor to said Walker. Permutation-padlock	330,647	Nov. 17	1622	436	33	831
Walker, Charles M., Cannon Street, London, England. Apparatus for utilizing the rise and fall of the tide	315,863	Apr. 14	1296	320 331	31	229
Walker, Charles O. R., Coolart-Balnarring, assignor to J. E. Pounds, Lockinge House, Kew, Victoria. Wire-strainer	327,136	Sept. 20	2589	674	32	1516
Walker, Charles O. R., Coolart-Balnarring, assignor to J. E. Pounds, Lockinge House, Kew, Victoria. Wire-strainer	328,093	Oct. 13	766	200	33	145
Walker, Clarence T., Atlanta, Ga., assignor of one-half to G. S. Prindle, Washington, D. C. Machine for stripping peanuts	319,762	June 9	1065	283	31	1253
Walker, Cyrus, Indianola, Iowa. Farm-gate	317,048	May 5	148	38	31	549
Walker, Daniel, trustee. (See Bradshaw, John A., assignor.)						
Walker, Edward H. (See Stock, Charles F., assignor.)						
Walker, Edward W., et al. (See Gore, Henry A., assignor.)						
Walker, Edwin, Erie, Pa. Adjustable faced plane	318,331	May 19	1880	505	31	886
Walker, Emery H. (See Hart and Walker.)						
Walker, Eugene R., Chicago, Ill., assignor to Michigan Stove Company, Detroit, Mich. Oil-stove	313,696	Mar. 10	866	231 233	30	952
Walker, Francis H., Chicago, Ill. Folding bedstead	316,066	Apr. 21	1533	400 401	31	291
Walker, George, Deseronto, Canada. Apparatus for manufacturing gas from sawdust	321,968	July 7	635	164 165	32	116
Walker, George B., London, England. Treatment of yucca or sotol fiber for the production of paper pulp or stock and obtaining by products therefrom	310,753	Jan. 13	759		30	150
Walker, George H. (See Downing, William S., assignor.)						
Walker, George N., Jr. (See Mason and Walker.)						
Walker, Horace L., Ottumwa, Iowa. Water-motor	321,969	June 30	3119	830	31	1648
Walker, James E., Conway, Iowa. Cultivator attachment	314,085	Apr. 21	1533	400	31	291
Walker, James F., Columbus, Kans. Gearing	329,106	Oct. 27	2150	557	33	419
Walker, James M., Roopville, Ga. Combined planter, harrow, and cultivator	326,180	Sept. 15	1284	331	32	1266
Walker, James T., Troy, N. Y., assignor to H. H. Wells, Washington, D. C. Bottle-stopper fastener	315,576	Apr. 14	845	222	31	157
Walker, John. (See Chisholm and Walker.)						
Walker, John. (See Chisholm, Walker, and Martin.)						
Walker, John, Hyde, county of Chester, England. Clearer-holder for drawing-frames, &c.	313,790	Mar. 10	1025	263 264	30	796
Walker, John H., Waterbury, Conn. Button	312,936	Feb. 24	2002	547	30	742
Walker, John R., Richland, Mo. Truck	320,418	June 16	2023	531	31	1430
Walker, Malcom, and E. Miner, Yankton, Dak. Ter. Portable brick-hack	326,812	Sept. 22	2160	562	32	1432
Walker, Marcellus, Boston, Mass. Boot or shoe	330,176	Nov. 10	1016	265 33	33	706
Walker, Marcellus, Cambridge, Mass. Plow-shoe	332,463	Dec. 15	1767	462 463	33	1327
Walker, Micah, Port Huron, Mich. Well-curb	310,341	Jan. 6	246	67	30	47
Walker, Oliver C., and L. B. Altaffer, East Palestine, Ohio. Hay-wagon brake	322,025	July 14	849	231	32	102
Walker, Philip B., and H. G. Riggs, Sydney, New South Wales. Submarine torpedo-boat	310,342	Jan. 6	247	67, 68	30	47
Walker & Pratt Manufacturing Company. (See Turner, Henry, assignor.)						
Walker, Richard, assignor of one-half to C. Blumrick, Batavia, N. Y. Stove-grate	313,697	Mar. 10	889	272	30	953
Walker, Robert, Oakland, Cal. Spring-seat	312,775	Feb. 24	1796	494	30	706
Walker, Thomas, and O. G. Barlow, Portland, Oreg. Combined seeder, roller, and harrow	331,568	Dec. 1	519	136	33	1082
Walker, Thomas B., Minneapolis, Minn. Band-saw mill	328,094	Oct. 13	767	200	33	145
Walker, Thomas M., assignor of one-half to J. W. Miller, Bellefontaine, Ohio. Combined pool-rack and ball-spotter	323,835	Aug. 4	561	164	29	632
Walker, William. (See Davis and Walker.)						
Walker, William, Dunstable, county of Bedford, England. Sewing-machine	320,099	June 16	1545	409	31	1346
Walker, William E., Taunton, Mass. Stove	313,560	Mar. 10	714	126 127	30	919
Walker, William E., and G. E. Wilbur, Taunton, Mass. Heating-stove	329,516	Nov. 3	123	33	33	528
Walker, William H. (See Eastman and Walker.)						
Walker, William H., Charleston, S. C. Spring-joint for hooks, &c.	320,729	June 23	2428	644	31	1515
Walker, William H., and G. Eastman, assignors, by mesne assignments, to Eastman Dry Plate and Film Company, Rochester, N. Y. Roller-holder for photographic films	317,049	May 5	149	38, 39	31	549
Walker, William H., and G. Eastman, assignors to Eastman Dry Plate and Film Company, Rochester, N. Y. Roller-holder for photographic films	317,050	May 5	154	39	31	550
Walker, William L., Capay, Cal. Harvester finger-bar	320,988	June 30	2773	736	31	1585
Walker, William T., Bishopswood Road, Highgate, county of Middlesex, England. Gas-retort lid	331,102	Nov. 24	2213	599	33	949
Walker, William W., Williamsport, Pa. Portable dark-room for photographers	312,937	Feb. 24	2003	547	30	742
Walkhoff, Johannes H. G., Harburg, Germany. Canned fish and method of canning	325,997	Sept. 8	1031		32	1212
Walsh, Liberty, Rockford, Ill. Paint-distributor	310,754	Jan. 13	760	207	30	150
Wall, Enos A., Bullion, Idaho Ter. Crushing-roll	332,978	Dec. 22	2493	659	33	1465
Wall, Frederic W., assignor of one-half to J. N. Huston, Connersville, Ind. Roller-skate	321,466	July 7	80	21	32	16
Wall, John D. (See Hanbery and Wall.)						
Wall, Joseph, Greenville, Miss. Sleeve or collar button	311,048	Jan. 20	1161	317	30	229
Wall, Stephen A. (See Bruen and Wall.)						
Wall, Thomas. (See Starr, Ferdinand W., assignor.)						
Wall, William, New York, N. Y. Bed	330,447	Nov. 17	1381	368	33	783
Wall, William, assignor to United States Cotton Seed Cleaning Company, New York, N. Y. Removing fiber from cotton-seed	310,628	Jan. 13	600		30	120
Wallace, Albert E. (See Knous and Wallace.)						
Wallace, Albert E. (See Pratt and Wallace.)						
Wallace, Albert E., assignor to Pope Manufacturing Company, Hartford, Conn. Velocity-pedal	312,411	Feb. 17	1301	359 360	30	606
Wallace, Albert E., assignor to Pope Manufacturing Company, Hartford, Conn. Velocity-pedal	314,633	Mar. 31	2160	574	30	1229
Wallace, Albert E., assignor to Pope Manufacturing Company, Hartford, Conn. Velocity-pedal	318,149	May 19	1637	437	31	841
Wallace, Alfred M., Globe, Ariz. Ter. Riding-saddle	333,491	Dec. 29	3208	840	33	1595
Wallace, David, and J. Darcus, Rockton, Ill. Tongue-support for harvesters	323,471	Aug. 4	113	39	32	543
Wallace, George T., et al. (See Gregory, John R., assignor.)						
Wallace, J. Bennett, assignor to Myers Manufacturing Company, Chicago, Ill. Vapor-burner	314,404	Mar. 24	1845	491 492	30	1147
Wallace, J. Bennett, assignor to Myers Manufacturing Company, Chicago, Ill. Plumber's heater	319,868	June 9	1220	322	31	127

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Wallace, J. Bennett, assignor of two-thirds to G. Myers and M. E. Dayton, Chicago, Ill. Balance slide-valve.....	319,151	June 2	265	70	31	1096
Wallace, Jacob, trustee. (See Maxfield, Charles A., assignor.)						
Wallace, Jacob, trustee. (See Maxfield, Charles A., assignor.) (Reissue.)						
Wallace, Jacob, trustee. (See Maxfield, Leverett L., assignor.)						
Wallace, Jacob B. (See Myers and Wallace.)						
Wallace, James D., assignor of one-half to W. H. Martin, Salina, Ohio. Churn-dasher.....	316,699	Apr. 28	2379	619	31	451
Wallace, James P., Bellefontaine, Ohio. Plaster-of-paris splint.....	316,421	Apr. 21	1990	523	31	372
Wallace, John, et al. (See Pearson, George D., assignor.)						
Wallace, John G., et al. (See Gregory, John R., assignor.)						
Wallace, John W. (See Dixon and Wallace.)						
Wallace Manufacturing Company. (See Wallace, William W., assignor.)						
Wallace Manufacturing Company. (See Wallace, William W., assignor.) (Reissue.)						
Wallace, Peter, et al. (See Pearson, George D., assignor.)						
Wallace, Robert, Wallingford, Conn. Making handles for cutlery.....	323,240	July 28	2496	663	32	478
Wallace, Samuel J., Keokuk, Iowa. Car-axle lubricator.....	310,755	Jan. 13	763	207	30	150
Wallace, Sanford D. (See Vosburgh, Reuben, assignor.)						
Wallace & Sons. (See Bryant, Edson L., assignor.)						
Wallace & Sons. (See Hubbell, George W., assignor.)						
Wallace & Sons. (See Jarvis, William H., assignor.)						
Wallace & Sons. (See Naramore, Joseph W., assignor.)						
Wallace & Sons. (See Richardson, Henry D., assignor.)						
Wallace, Thomas. (See Lockwood, William C., assignor.)						
Wallace, Thomas, New York, N. Y. Telephone.....	312,533	Feb. 17	1480	405	30	638
Wallace, William, and T. J. Wood, Ansonia, Conn. Annealing copper wire.....	312,045	Feb. 10	788		30	503
Wallace, William W., Frankfort, Ind. Brick and tile machine.....	315,358	Apr. 7	514	131	31	93
Wallace, William W., Frankfort, Ind. Tile-table.....	315,359	Apr. 7	516	131	31	93
Wallace, William W., Fleetville, Pa. Boot or shoe heel.....	321,869	July 7	637	165	32	116
Wallace, William W., assignor to Wallace Manufacturing Company, Frankfort, Ind. Clay-crushing machine. (Reissue).....	10,584	Apr. 21	2008	527	31	375
Wallace, William W., assignor to Wallace Manufacturing Company, Frankfort, Ind. Mold for casting rolls.....	327,840	Oct. 6	436	114	33	76
Wallach, Isaac. (See Price and Wallach.)						
Wallach, Samuel, New York, N. Y. Clasp for bracelets. (Reissue.).....	10,552	Jan. 13	993	245	30	176
Wallach & Sons, H. (See Price and Wallach, assignors.)						
Waller, Warren E., Charles City, Iowa. Horse-collar.....	319,044	June 2	134	37	31	1072
Walley, William O., Altrincham, near Manchester, county of Chester, England. Apparatus for checking and controlling runaway horses.....	331,350	Dec. 1	130	32	33	1021
Wallick, Marion, assignor of thirteen-sixteenths to H. A. Heist, B. Eshelman, and J. B. Rohrer, East Germantown, Ind. Railway-switch.....	317,599	May 12	902	231	31	694
Walling, Mary C., Brenham, Tex. Cotton-picker.....	313,139	Mar. 3	133	32	30	80
Walling, Mary C., Washington, D. C. Stamping-machine.....	332,850	Dec. 22	2317	613 614	33	14
Walling, Reverdy R. (See Zimmerman, George F. S., assignor.)						
Walling, William F., Albany, Wis. Combined vehicle-seat and end-gate.....	324,196	Aug. 11	1088	293	32	733
Wallis, Edward, Jr. (See Atwood and Wallis.)						
Wallis, John N., and D. W. Smith, Auburn, N. Y.; said Smith assignor to said Wallis. Combined horse hay rake and tedder.....	333,366	Dec. 29	3044	755	33	1568
Wallis, William L., et al. (See Rees, John W., assignor.)						
Walloch, Frank, assignor to I. Walloch, New York, N. Y. Hunting-jacket.....	323,987	Aug. 11	781	276	32	678
Wallock, Frank, assignor to I. Walloch, New York, N. Y. Pantaloon for hunters, &c.....	323,988	Aug. 11	782	276	32	678
Wallock, Isaac. (See Walloch, Frank, assignor.)						
Wallover, Elias Z., et al. (See Sullenberger, Samuel A., assignor.)						
Walls, Dalton, Appleton City, Mo. Cultivator and harrow.....	331,589	Dec. 1	122	156	33	1089
Wally, Andrew. (See Caldwell, Benjamin F., assignor.)						
Walley, Andrew, and H. Beckman, Montrose, Mo. Attachment for check-row corn-planters.....	326,813	Sept. 22	2162	563	32	1433
Walmsley, H. B. (See Brown, Charles E., assignor.)						
Walp, Oliver J., and A. R. Leavitt, Reading, Pa. Pattern for boot or shoe uppers.....	313,635	Mar. 10	50	212	30	936
Walpole, Mary R., Mayfield, Ky. Wash-boiler.....	311,695	Feb. 3	17	84	30	407
Walpuski, Charles, New York, N. Y. Paper-smoothing compound.....	313,263	Mar. 3	333		30	837
Walpuski, Charles, New York, N. Y. Ink-erasing compound.....	314,759	Mar. 23	2314		30	1258
Walpuski, Charles, New York, N. Y. Pencil or crayon holder.....	324,504	Aug. 15	1501	411	32	816
Walpuski, Charles, assignor to Eagle Pencil Company, New York, N. Y. Composition for pencil-leads and crayons.....	328,366	Oct. 13	1114		33	211
Walrath, Jesse, assignor to J. I. Case Threshing Machine Company, Racine, Wis. Steam-boiler.....	327,841	Oct. 6	437	114	33	77
Walsh, Allan H., and J. Abramowsky, Chicago, Ill. Folding carriage.....	324,617	Aug. 18	1652	456	32	246
Walsh, Edward, Jr., St. Louis, Mo. Glass and other furnaces of the regenerator type.....	320,516	June 23	2155	568 569 580 581	31	1463
Walsh, Francis A., Milwaukee, Wis. Can-heading machine.....	321,263	June 30	3120	531 532 533	31	1648
Walsh, Francis A., Chicago, Ill. Sheet-metal can.....	333,179	Dec. 29	2791	730	33	1522
Walsh, Francis A., Chicago, Ill. Sheet-metal can.....	333,180	Dec. 29	2792	731	33	1522
Walsh, James, North Adams, Mass. Sash-fastener.....	317,051	May 5	158	40	31	551
Walsh, James, T. F. Murphy, and E. A. Clark, North Adams, Mass.; said Clark assignor to said Walsh and Murphy. Level.....	317,250	May 5	437	109	31	602
Walsh, John, Cleveland, Ohio. Fire-escape.....	325,998	Sept. 8	1031	202	32	1212
Walsh, John A., Wareham, assignor to Tremont Nail Company, West Wareham, Mass. Pile-box.....	311,696	Feb. 3	308	84	30	407
Walsh, John E., New York, N. Y. Submarine excavator.....	328,095	Oct. 13	769	201	33	145
Walsh, John J. (See Riley and Walsh.)						
Walsh, John L., Chicago, Ill. Button-hole sewing-machine.....	332,122	Dec. 8	1304	338 339	33	1229
Walsh, Joseph J., Stratford, Ontario, Canada. Machine for cleaning and brightening dried fruit.....	323,000	July 28	2164	574	32	417
Walsh, Matthew M., Hillsborough, Ill. Combined table and writing-desk.....	326,814	Sept. 22	2163	563	32	1433
Walsh, Patrick. (See O'Connor, Walsh, and Martin.)						
Walsh, Patrick H., Waterbury, Conn. Surface-attaching garment-button.....	312,046	Feb. 10	789	216	30	503
Walsh, Patrick H., Waterbury, Conn. Button.....	315,191	Apr. 7	300	71	31	53
Walsh, Robert E., New York, N. Y. Portable ventilating apparatus.....	320,177	Nov. 10	1018	266	33	707
Walsh, Thomas J. (See Reed and Walsh.)						
Walsh, Thomas P. (See Hulford and Walsh.)						
Walsh, William M., assignor of one-half to W. Kehrer, Philadelphia, Pa. Coffin.....	318,837	May 26	2558	681	31	1016

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Waltmeyer, Joseph, and H. J. Ennis, Washington, D. C.; said Ennis assignor to said Waltmeyer. Wearing-apparel.....	315,360	Apr. 7	518	139	31	94
Walter, Charles L., Boston, Mass. Cotton-harvester.....	325,880	Sept. 8	885	223 224 225	32	1186
Walter, Charles R., and J. E. Blackburn, Fredericktown, Md. Whiffletree.....	315,361	Apr. 7	518	133	31	94
Walter, Edward P. and H. C., Bridgeport, Conn. Friction-clutch.....	329,244	Oct. 27	9245	607	33	442
Walter, George F., Caledonia, Iowa. Harness-rack.....	312,938	Feb. 24	2004	548	30	743
Walter, Henry C. (See Walter, Edward P. and H. C.)						
Walter, Henry C., Bridgeport, Conn. Bottling-machine.....	330,178	Nov. 10	1019	266	33	707
Walter, Henry C., Bridgeport, assignor to T. H. Camp, H. Oldershaw, New Britain, W. Fonda, Manchester, and D. Gordon, Hazardville, Conn. Bottle-stopper.....	310,756	Jan. 13	714	207	30	150
Walter, Hugo, Cincinnati, Ohio. Car-brake.....	315,982	Apr. 11	1396	362	31	959
Walter, James F., assignor to W. H. Leavitt, Waterloo, Iowa. Mop-wringer.....	323,738	Aug. 4	491	138	32	615
Walter, Merritt, New Lothrop, Mich. Rein-holder.....	317,690	May 12	1023	265	31	717
Walter, Peter, Jr. (See Lowbridge, Jabez, assignor.)						
Walter, Samuel, Dallas City, Ill. Buck-saw.....	315,577	Apr. 14	846	222	31	157
Walter, Theophilus P. (See Hackman and Walter.)						
Walter, Thomas F., Philadelphia, Pa. Button cover or sheath.....	320,730	June 23	2429	644	31	1515
Walter, William, Philadelphia, Pa. Underground conduit for electric wires.....	316,700	Apr. 28	2378	619	31	451
Walter, William, Philadelphia, Pa. Underground conduit for cables, electric wires, &c.....	323,241	July 28	2497	663	32	478
Walter, William G., Pittsburg, Pa. Caster.....	318,403	May 19	1076	531	31	904
Walter, Willie C., assignor of two-thirds to G. B. McAdams, Richmond, Va. Clock-movement frame.....	317,888	May 12	1300	348	31	770
Walter, Willie C., assignor of two-thirds to G. B. McAdams, Richmond, Va. Button-fastener.....	320,451	June 16	2066	542	31	1438
Walter, Willie C., assignor of two-thirds to G. B. McAdams, Richmond, Va. Powder-box.....	329,787	Nov. 3	483	123	33	597
Walters, Charles D., Harrisburg, assignor of three-fourths to A. H. Ege, Mechanicsburg, Pa. Railway-switch.....	313,264	Mar. 3	333	82	30	837
Walters, Charles F., Richmond, Ind., assignor to Richmond City Mill Works. Friction attachment for flour-packers.....	320,419	June 16	9024	531	31	1430
Walters, Charles F. and W. J., Prospect, N. Y. Clasp.....	322,026	July 14	850	221	32	102
Walters, Daniel, Richmond, Ind. Roller-skate.....	324,618	Aug. 18	1654	456	32	846
Walters, David, Cleveland, Ohio. Machine for straightening rails.....	318,061	May 19	1524	408 409	31	819
Walters, William J. (See Walters, Charles F. and W. J.)						
Walton, Edward, Carterville, Va. Tobacco-carrier.....	332,123	Dec. 8	1306	339	33	1239
Walton, Isaac N. (See Holt, Robert B., assignor.)						
Walton, Joseph J., Newark, N. J. Cuspidor.....	317,251	May 5	439	110	31	603
Walton, Joseph J., Newark, N. J. Lamp-box for cars.....	325,135	Aug. 25	2353	648	32	983
Walton, William R. (See Stone and Walton.)						
Walton, William R., assignor to Ansonia Brass and Copper Company, Ansonia, Conn. Mold for casting copper ingots.....	315,192	Apr. 7	301	72	31	54
Walton, William R., assignor to Ansonia Brass and Copper Company, Ansonia, Conn. Refining or preparing copper for casting.....	324,505	Aug. 18	1502		32	816
Walton, William R., assignor to Ansonia Brass and Copper Company, Ansonia, Conn. Draw-bench.....	324,506	Aug. 18	1503	411	32	816
Walton, William R., assignor to Ansonia Brass and Copper Company, Ansonia, Conn. Machine for contracting the end of a tube.....	324,507	Aug. 18	1504	411 412	32	816
Walworth, Caleb C. (See Hall, Osborn B., assignor.)						
Walworth, Caleb C., and H. Seyter, Boston, Mass. Apparatus for mixing aeriform fluids.....	322,661	July 21	1084	446 447	32	322
Wanamaker, Daniel S., assignor to himself and J. Ackerman, Ramsey's, N. J. Wagon-jack.....	331,103	Nov. 24	2214	600	33	950
Wandis, John C., St. Louis, Mo. Metallic roofing.....	319,669	June 9	1222	322	31	1279
Wanbrinton, George, assignor of one-half to W. Webster, Philadelphia, Pa. Cable railway.....	318,332	May 19	1892	566	31	886
Ward, Aaron, Camden, N. J. Machine for making paving or building blocks.....	328,551	Oct. 20	1368	357	33	964
Ward, Aaron, Camden, N. J. Machine or press for pressing bricks, &c.....	328,552	Oct. 20	1370	357	33	964
Ward, Alexander F., Detroit, Mich. Pill-machine.....	311,620	Feb. 3	214	60	30	329
Ward, Alexander F., Detroit, Mich. Hoop-planing machine.....	332,124	Dec. 8	1307	339	33	1240
Ward, Andrew W., Gallipolis, assignor of one-half to Mellvain & Spiegel, Cincinnati, Ohio. Feed-water heater and purifier.....	321,406	June 30	3309	863	31	1684
Ward, Barton B., Hartford, Conn., assignor to F. G. Waterhouse, Sacramento, Cal. Electric-arc lamp.....	311,546	Feb. 3	121	35	30	372
Ward, Charles, Toronto, Ontario, Canada. Automatic barrel-filler.....	328,827	Oct. 20	1730	450	33	331
Ward, Charles H. (See Collier, Charles W. and W. C., assignors.)						
Ward & Curley. (See McHugh, Timothy, assignor.)						
Ward, Elias S., Newark, N. J. Tanning.....	320,603	June 23	2270		31	1485
Ward, Ellis F., Philadelphia, Pa. Rowlock for racing-boats, &c.....	317,430	May 5	687	173	31	647
Ward, George M., Newark, N. J. Gas-motor.....	311,214	Jan. 27	1405	384	30	279
Ward, Henry, and J. S. Utter, Stockton, Cal. Piano-forte music-rack illuminator.....	324,901	Aug. 25	2051	561	32	996
Ward, Henry H., Batavia, Ill. Steam-generator.....	326,466	Sept. 15	1658	433	32	1396
Ward, James H., Kalamazoo, Mich. Pillow-sham holder.....	317,052	May 5	159	40	31	551
Ward, Jasper N., Richmond, Ind. Roller-skate.....	321,064	June 30	2-79	765	31	1604
Ward, John H., Delphos, Ohio. Water-cooler.....	327,361	Sept. 20	2806	756	32	1570
Ward, John H., assignor to himself and J. H. McDermott, Lowell, Mass. Car-coupling.....	323,242	July 28	2498	664	32	478
Ward, Joseph, assignor of two-thirds to J. Ashton and F. J. Martin, Manchester, N. H. Device for transmitting power.....	314,207	Mar. 17	1579	418	30	1086
Ward, Lewis F., Marathon, N. Y. Scarf, necktie, or cuff holder.....	312,047	Feb. 10	790	216	30	503
Ward, Marcus L. (See Van Wageningen, William M., assignor.)						
Ward, Norbert R. (See Ward, Whitfield, assignor.)						
Ward, Philip R., Quincy, Ill. Saw-swaging machine.....	326,360	Sept. 15	1535	398 399	32	1313
Ward, Seth. (See Gilmore, Steele F., assignor.)						
Ward, Thomas, Harper's, N. C. Plow.....	323,836	Aug. 4	582	164	32	633
Ward, Whitfield, assignor of one-half to N. R. Ward, New York, N. Y. Bottle-stopper.....	330,812	Nov. 17	1841	496	33	872
Ward, William E. (See Wilmer, Theodore J., assignor.)						
Ward, William M., Harbor Grace, Newfoundland. Hose-tower and fire-escape.....	317,899	May 12	1300	348 349	31	770
Ward, William S., assignor to H. D. Smith & Co., Plantsville, Conn. Machine for making clip-vokes.....	312,534	Feb. 17	1482	405	30	638
Ward, William S., assignor to H. D. Smith & Co., Plantsville, Conn. Whiffletree-coupling.....	320,313	June 16	1861	489	31	1401
Warden, William R., Somerville, assignor to D. H. Bishop, Boston, Mass. Cheese-cutter.....	318,333	May 19	1883	506	31	887
Wardman, William, Bristol, Pa. Spindle for cap spinning and twisting machines.....	328,733	Oct. 20	1023	423	33	310
Wardwell, Charles E., Holyoke, Mass. Skate.....	310,923	Jan. 20	962	267	30	195

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Wardwell, Claison S., Stamford, Conn. Belt-tightening device	326,695	Sept. 22	1967	517	32	1400
Wardwell, Claison S., Stamford, Conn. Pulley or wheel	323,158	Oct. 13	846	220	33	160
Wardwell, Henry, <i>et al.</i> , executors. (See Upton, George.)						
Wardwell, Jeremy B., Ormond, Fla. Basket-support for ladders	325,290	Sept. 1	22	24	32	1031
Wardwell, Simon W., Jr., Woonsocket, R. I. Thread-regulating device for sewing-machines	310,422	Jan. 6	405	112	30	78
Wardwell, Simon W., Jr., Woonsocket, R. I. Needle-guard for sewing-machines	321,065	June 30	2879	766	31	1605
Wardwell, Simon W., Jr., Providence, R. I. Sewing-machine	322,571	July 21	1576	415	32	301
Wardwell, William T. C., <i>et al.</i> (See Cary, Charles H., assignor.)						
Ware, Charles, New York, N. Y., assignor to Davidson Rubber Company, Boston, Mass. Nipple-protector	322,508	July 21	1493	392	32	227
Ware, Theodore E., Clifton, Bristol, county of Gloucester, England. Bell for bicycles	330,100	June 16	1547	409	31	1346
Ware, William F., New York, N. Y. Button or knob	316,908	Apr. 21	1696	445	31	321
Wareheim, William W. (See Wooden, Lewis H., assignor.)						
Warfield Manufacturing Company. (See Judge, Edward S., assignor.)						
Warfield, Solomon D., Baltimore, Md. Green-corn cutter	316,701	Apr. 28	2381	620	31	451
Warfield, Solomon D., Baltimore, Md. Corn-silk	322,220	July 14	1101	286	32	209
Waring, John B., New York, N. Y. Pulverizing-machine	323,625	Oct. 20	1481	366	33	224
Waring, John B., assignor to Ingersoll Rock Drill Company, New York, N. Y. Support for rock-drilling machines	312,412	Feb. 17	1304	360	30	007
Waring, John T. (See Merritt, Charles H., assignor.)						
Waring, John T. (See Pelisse, Auguste, assignor.)						
Waring, John T., New York, N. Y. Machine for felting hat-bodies	320,102	June 16	1549	410	31	1346
Waring, John T., Yonkers, N. Y. Machine for felting hat-bodies, &c.	320,101	June 16	1547	410	31	1346
Waring, John T., Yonkers, N. Y. Machinery for felting hat-bodies and other articles	320,608	Sept. 22	1849	485	32	1378
Waring, John T., Yonkers, N. Y. Machinery for felting hat-bodies, &c.	322,851	Dec. 22	2319	614	33	1432
Waring, Wilson, Colorado, Md. Ore-crushing machine	324,197	Aug. 11	1069	294	32	733
Warrmoth, Madison M., Brandenburg, Ky. Peasary	328,553	Oct. 20	1371	357	33	964
Warner, A. S., <i>et al.</i> (See Cooper, Isaac W., assignor.)						
Warner, Denman A. (See Fort, Thomas J., assignor.)						
Warner, Frank D., and W. J. Matthews, Collinsville, Ill. Whiffletree-coupling	329,788	Nov. 3	486	123	33	597
Warner, George A., Des Moines, Iowa. Hydrant	313,265	Mar. 3	335	82	30	837
Warner, George A., Des Moines, Iowa. Hydrant and plug	328,968	Oct. 27	1976	513	33	382
Warner, H. T. (See Lathrop, Thomas A., assignor.)						
Warner, James, Philadelphia, Pa. Conduit for cable roads	322,766	July 21	1622	422	32	347
Warner, James C., assignor to Western Electric Company, Chicago, Ill. Spring-jack switch	321,553	July 7	203	54	32	40
Warner, Jasper P., Dowagiac, Mich. Grain force-feeding machine	315,193	Apr. 7	302	72	31	54
Warner, John P., Philadelphia, Pa., assignor to E. L. Lambie, Washington, D. C., and J. F. Dezenford, Norfolk, Va. Feed-water purifier and heater	322,767	July 21	1824	482	32	347
Warner, John P., Philadelphia, Pa., assignor to E. L. Lambie, Washington, D. C., and J. F. Dezenford, Norfolk, Va. Purifier and heater for feed-water	330,758	Nov. 17	1773	478	33	860
Warner, Samuel M. (See La Rue, Henry U., assignor.)						
Warner, Warren E., assignor to E. C. Stearns & Co., Syracuse, N. Y. Door-hanger	311,697	Feb. 3	309	85	30	407
Warner, William F., assignor to J. Holmes, Boston, Mass. Combination-garment	315,093	Apr. 7	145	24	31	27
Warner, William L., New Haven, Conn. Shears for metal-workers	325,291	Sept. 1	82	24	32	1031
Warren, Albert G., assignor of one-fourth to A. A. Strauss, Mayesville, S. C. Electric railway-signal	323,243	July 28	2499	664	32	479
Warren, Augustus J., Nashville, Tenn. Wardrobe-bedstead	310,343	Jan. 6	250	68, 69	30	47
Warren, Benjamin F., Philadelphia, assignor to B. D. Benson, Titusville, Pa. Apparatus for cleaning out pipe-lines	329,605	Nov. 3	250	65	33	552
Warren, Charles T., Boston, assignor of one-half to E. B. Welch, Cambridge, Mass. Rotary water-meter	329,734	Oct. 20	1624	423	33	310
Warren, Christopher C., Meridian, Miss. Bale-tie	320,420	June 16	2025	532	31	1431
Warren, Edmond A., Brooklyn, N. Y. Numbering-machine	390,103	June 16	1551	410	31	1346
Warren, Edmond A., Brooklyn, N. Y. Ink-table for printing-machines	320,533	Nov. 17	1488	308	33	804
Warren, Edward K., Three Oaks, Mich. Stiffening-strip and producing the same	311,691	Feb. 3	216	61	30	389
Warren, Edward K., Three Oaks, Mich. Attaching stiffenings to dress-waists	327,626	Oct. 6	169	41	33	31
Warren, Edward K., assignor to Warren Feather Bone Company, Three Oaks, Mich. Preparing feather-vanes for upholstering purposes	327,197	Sept. 29	2590		32	1516
Warren, Edward L., Worcester, Mass. Wire reel and tub	320,421	June 16	2025	532	31	1431
Warren, Edward L., and A. Ladd, Worcester, Mass. Drawing wire	318,062	May 19	1525	409	31	819
Warren Featherbone Company. (See Holden, George R., assignor.)						
Warren Featherbone Company. (See Holden, Jonas H., assignor.)						
Warren Featherbone Company. (See Warren, Edward K., assignor.)						
Warren, Gilbert W. (See McGahan, Fred L., assignor.)						
Warren, Jabez S., Burlingame, Kans. Rail-joint	322,027	July 14	850	221	32	163
Warren, Jabez T., Le Roy, N. Y. Razor-strop	331,853	Dec. 8	903	233	33	1167
Warren, John E., Westbrook, Me. Filter	332,919	Dec. 22	2404	656	33	1465
Warren, John H., <i>et al.</i> (See Clark, Levi S., assignor.)						
Warren, Joseph A., Detroit, Mich. Reed-organ stop-action	322,509	July 21	1494	392	32	287
Warren, Marion, Rochester, N. Y. Pressure-regulator for fermenting liquids	320,422	June 16	2022	532	31	1431
Warren, Murray H. (See Clark and Warren.)						
Warren, Robert W., Houghton, Mich. Dynamite	323,088	July 28	2229		32	440
Warren, Samuel D. (See Cloudman, Francis A., assignor.)						
Warren, Zenas C., Springfield, Mass. Preparation of mineral filling for paper-makers' use	318,063	May 19	1526	409	31	819
Warrington, Jesse, assignor to Nordyke & Marmion Company, Indianapolis, Ind. Bolting-reel	310,483	Jan. 6	406	112	30	78
Warrington, Jesse, assignor to Nordyke & Marmion Company, Indianapolis, Ind. Roller-mill	312,048	Feb. 10	791	216	30	503
Warrington, Jesse, assignor to Nordyke & Marmion Company, Indianapolis, Ind. Scraper for roller-mills	314,278	Mar. 24	1678	447	30	1115
Warhoer, Alexander, Boston, Mass. Detachable pocket and protector	332,310	Dec. 15	1359	410	33	1291
Warth, Albin, Stapleton, N. Y. Driving-rein	319,360	June 2	519	141	31	1146
Warthen, Richard L., Sandersville, Ga. Cotton cultivator and hoe combined	320,731	June 23	2430	644	31	1515
Warwick, George T., Springfield, Mass. Wheel for vehicles	315,094	Apr. -	146	35	31	28
Warwick, George T., Springfield, Mass. Bicycle	322,221	July 14	1103	287	32	210
Warwick, George T., Springfield, Mass. Machine for bending and setting the backbones of bicycles	328,986	Oct. 27	1974	513	33	381
Warwick, George T., Springfield, Mass. Tool for making hollow rims for bicycle-wheels	328,987	Oct. 27	1975	513	33	381
Warwick, James S. (See Newlin, William, assignor.)						
Warwick, John, Beloit, Wis. Windmill	317,691	May 12	1024	265	31	717

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Warwick, Thomas, Aston Juxta, Birmingham, county of Warwick, England. Bicycle-saddle	316,702	Apr. 28	2384	621	31	432
Warwick, Thomas, Birmingham, county of Warwick, England, assignor to Overman Wheel Company, Chicopee, Mass. Velocipede	329,517	Nov. 3	124	32, 33	33	529
Washburn, Charles G. (See Midgley, Thomas, assignor.)						
Washburn, Charles H., New York, N. Y. Automatic steering apparatus	313,901	Mar. 17	1179	307	30	1013
Washburn, Edwin C., Nevada, Mo. Combined gate roller and hinge	330,648	Nov. 17	1625	437	33	832
Washburn, G. Arthur, Plainville, Conn., assignor to J. C. Haynes & Co., Boston, Mass. Banjo	316,508	Apr. 28	2115	556	31	401
Washburn, George W., West New Brighton, N. Y. Fastening for buttons	320,517	June 23	2158	560	31	1463
Washburn, George W., West New Brighton, N. Y. Clasp-fastening for bracelets	321,066	June 30	2880	766	31	1605
Washburn, George W., West New Brighton, N. Y. Ball-cover for ear-jewels	321,407	June 30	3310	883	31	1685
Washburn & Moen Manufacturing Company. (See Lenox, Edwin S., assignor.)						
Washburn & Moen Manufacturing Company. (See Morgan, Charles H., assignor.)						
Washburn & Moen Manufacturing Company, et al. (See Upham, Andrew J., assignor.)						
Washburn, Nathan, Boston, Mass. Car-wheel	326,256	Sept. 15	1304	363	32	1286
Washburn, Nathan, Boston, Mass. Car-wheel	327,041	Sept. 29	2470	645	32	1496
Washburn, Wilbur F. (See Moore, Charles H., assignor.)						
Washburn, William S., East Bridgewater, Mass. Bit-stock	323,989	Aug. 11	785	218	32	678
Washburne, Mary E. (See Washburne, Oscar, assignor.)						
Washburne, Oscar, assignor to M. E. Washburne, Sing Sing, N. Y. Cotton-gin	323,548	Aug. 4	220	65	32	562
Washburne, Oscar, assignor to M. E. Washburne, Sing Sing, N. Y. Feeder for cotton-gins	328,159	Oct. 13	847	220	33	160
Washer, Solomon R., Atchison, Kans. Door for grain-cars	317,900	May 12	1304	349	31	771
Washington, Lorenzo D., Knoxville, Tenn. Folding globe	316,087	Apr. 21	1535	401	31	291
Wass, Dyson D. (See Sterling and Wass.)						
Wass, Dyson D., New York, N. Y. Lubricating compound	316,703	Apr. 28	2385		31	432
Wass, Dyson D., San Francisco, Cal. Feed-water heater and purifier	323,611	Aug. 4	299	85	32	577
Wassberg, Conrad. (See Langstrom, Albert, assignor.)						
Wasserman, Adolph, et al. (See McClellan, Oscar D., assignor.)						
Waterbury, Caroline R., executrix. (See Waterbury, Charles G.)						
Waterbury, Charles G., deceased, New York, N. Y., C. R. Waterbury executrix. Snow-melting and ground-heating machine	328,367	Oct. 13	1115	268	33	211
Waterbury Clock Company. (See Lewis, Charles S., assignor.)						
Waterbury Watch Company. (See Hart, George E., assignor.)						
Waterhouse, Addison G., assignor, by mesne assignments, to Schuyler Electric Light Company, New York, N. Y. Dynamo-electric machine	318,671	May 26	2333	623	31	977
Waterhouse, A. I. (See Waterhouse, Mark A., assignor.)						
Waterhouse, Charles N., St. Louis, Mo. Connecting-link for chains	321,554	July 7	205	54	32	40
Waterhouse, Frank G. (See Ward, Barton B., assignor.)						
Waterhouse, Frank G., Sacramento, Cal. Dynamo-electric machine	311,547	Feb. 3	123	36	30	372
Waterhouse, Frank G., Sacramento, Cal. Regulator for dynamo-electric machines	313,561	Mar. 10	715	167	30	919
Waterhouse, Frank G., Sacramento City, Cal. Dynamo-electric machine	332,685	Dec. 15	2094	550	33	1384
Waterhouse, Mark A., Boston, Mass., assignor to A. Waterhouse, Durham, Me. Bustle attachment for corsets	321,408	June 30	3311	883	31	1685
Waterman, Lewis E. (See Davison, Frank G., assignor.)						
Waterman, Lyman, Jr., Creston, Iowa, assignor, by mesne assignments, of one-half to W. H. and C. W. Doty, Galesburg, Ill. Combined check-roller and self-dropping corn-planter	328,160	Oct. 13	849	220	33	160
Waterman, Noble J., Detroit, Mich. Steam draft and pressure regulator	315,864	Apr. 14	1229	321	31	230
Waterman, Smith A., West Troy, N. Y. Spring-clip	327,744	Oct. 6	316	81	33	53
Waters, Daniel, Wilkes-Barre, Pa. Bit-fastening for bridles	332,025	Dec. 8	1160	302	33	1214
Waters, Edward E. (See Ordway, John M., assignor.)						
Waters, Elisha and G. A., Troy, N. Y. Life-preserver	315,095	Apr. 7	147	35	31	26
Waters, Francis M., Ashmore, Ill. Thrill-coupling	322,510	July 21	1495	393	32	288
Waters, Frank M., Springfield, Ohio. Mechanical movement	310,924	Jan. 20	983	267	30	195
Waters, Frank M., assignor to D. P. and T. E. McKinney, Springfield, Ohio. Lawn-mowing machine	333,181	Dec. 29	2792	731	33	1523
Waters, Frank M., assignor of one-fourth to J. C. Oldham, Springfield, Ohio. Mowing-machine	316,856	Apr. 28	2604	679	31	492
Waters, George A. (See Waters, Elisha and G. A.)						
Waters, George D., Cedarvale, Kans. Clamp for eaves-troughs	322,222	July 14	1105	287	32	210
Waters, John, Augusta, Ga. Boiler-cleaner	317,600	May 12	903	232	31	665
Waters, Michael, Buffalo, N. Y. Bilge-pump	324,438	Aug. 18	1411	385	32	800
Waters, William T., Atlanta, Ga. Electric railway-signal	314,760	Mar. 31	2314	615	30	1258
Waters, William T., Atlanta, Ga. Electric railway-signal	314,761	Mar. 31	2317	616	30	1259
Waters, William T., Atlanta, Ga. Electric railway-signal	314,762	Mar. 31	2323	617	30	1260
Waters, William T., Atlanta, Ga. Electrical railway-signal	314,763	Mar. 31	2331	618	30	1261
Waterworth, Alexander M., assignor of one-half to T. T. A. Hitaffer, Baltimore, Md. Bath-tub	310,344	Jan. 6	251	69	30	48
Watkins, Alexander, assignor to Self Acting Sewing Machine Company, (limited,) London, England. Sewing-machine	313,970	Mar. 17	1261	334	30	1032
Watkins, Benjamin, Akron, Ohio. Horseshoe-nail	332,464	Dec. 15	1769	463	33	1527
Watkins, Elisha, Eagleville, Cal. Welding compound	322,923	July 14	1106		32	210
Watkins, Frank M., assignor of one-half to J. T. Weighell, Cincinnati, Ohio. Driving mechanism for washing-machines	321,555	July 7	205	54	32	40
Watkins, Gardner A., assignor to Heywood Brothers & Co., Gardner, Mass. Wood ornamentation	320,518	June 23	2180	570	31	1464
Watkins, Gardner A., assignor to H. and G. Heywood, A. M. Greenwood, and A. Morrill, Gardner, Mass. Base rocking-chair	326,361	Sept. 15	1537	399	32	1313
Watkins, Harry, assignor of one-half to W. M. Burpee, Syracuse, N. Y. Spoke driving and tenoning machine	319,942	June 9	1329	350	31	1296
Watkins, J. B. (See Boynton, Elen M., assignor.)						
Watkins, James T., assignor to B. Jackson, San Francisco, Cal. Rake for conducting grain to thrashing-machines	321,067	June 30	2882	766	31	1605
Watkins, William, Linneus, Mo., assignor of one-half to H. Morton. Shoe	311,275	Jan. 27	1500	409	30	297
Watkins, William, Moss Point, Miss. Weighing-scale	326,615	Sept. 22	2164	564	33	1433
Watkinson, George, et al. (See Unbehend, Jacob J., assignor.) (Reissue.)						
Watkinson, George, assignor to L. Candee & Co., New Haven, Conn. Rubber boot or shoe	322,224	July 14	1106	287	32	210

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Watrous, Charles R. (See Benham and Watrous.)						
Watson, Charles, and A. Gankroger, San Francisco, Cal. Steam-trap	321,556	July 7	207	54	32	41
Watson, Charles H., Omaha, Neb., assignor of one-half to J. H. Baldwin. Excavator	325,370	Sept. 1	193	50	32	1051
Watson, Charles S., assignor of one-half to I. Townsend, Philadelphia, Pa. Fire-escape	331,746	Dec. 1	752	190	33	1132
Watson, Charles S., assignor of two-thirds to S. D. Hall and H. C. Cook, Philadelphia, Pa. Lamp and window-sign	327,369	Sept. 29	2897	756	32	1570
Watson, Christopher, and C. E. Adams, Paris, Ontario, Canada. Snow-shovel	316,509	Apr. 28	2116	556	31	401
Watson, Clarence L., Attleborough, Mass. Button	320,021	June 16	1443	379	31	1396
Watson, Earle F., New York, N. Y. Skate-sharpener	332,465	Dec. 15	1770	463	33	1327
Watson, Edwin J., Worcester, Mass. Machine for making eyeglass-springs	311,548	Feb. 3	125	36	30	372
Watson, George, assignor to himself and A. Miller, St. Charles, Minn. Machine for cross-grooving axle-trees	319,361	June 2	580	142	31	1147
Watson, George E. (See Wilson and Watson.)						
Watson, Henry H., Waltham, Mass. Car-starter	331,220	Nov. 24	2392	647	33	981
Watson, Isaac N., Defiance, Ohio. Fence	324,439	Aug. 18	1412	385	32	801
Watson, James. (See McDaniel, John S., assignor.)						
Watson, James B., Marionville, Pa. Slide-valve for oil-wells	333,492	Dec. 29	3209	840	33	1596
Watson, James H., Tawas City, and C. H. Hubbell, East Tawas, Mich.; said Hubbell assignor of one-half to W. A. Kelly. Feed for gang-saws	331,590	Dec. 1	523	197	33	1069
Watson, Jeremiah M., Sharon, Mass. Centering-chuck	313,562	Mar. 10	716	187	30	920
Watson, Jeremiah M., Sharon, Mass. Machinery for skiving leather	316,704	Apr. 28	2386	622	31	452
Watson, Jeremiah M., Sharon, Mass. Shank-stiffener	320,969	June 30	2774	737	31	1585
Watson, Jeremiah S. (See Ambuster, Charles S., assignor.)						
Watson, John, St. Albans, county of Hertford, England. Boiler	324,902	Aug. 25	2052	561	32	926
Watson, John G., Arr. Ontario, Canada. Harvester-binder	324,283	Aug. 11	1197	325	32	753
Watson, Lewis F., et al. (See Burnley, William, assignor.)						
Watson, Lewis H., Chicago, Ill. Burner for heating purposes	329,107	Oct. 27	2151	557	33	412
Watson, Lewis H., Chicago, Ill. Ironing-machine	332,026	Dec. 8	1161	303	33	1214
Watson, Lyssander E., Ocean Grove, and D. H. Hulit, Asbury Park, N. J. Railway-signal	331,854	Dec. 8	904	234	33	1167
Watson, Olin A., Chicago, Ill. Mouth-piece for wind-instruments	225,715	Sept. 8	676	169	32	1146
Watson, Richard H., Philadelphia, Pa. Porcelain water-closet bowl	320,990	June 30	2775	737	31	1585
Watson, Richard E. (See Richtmann, Charles, assignor.)						
Watson, Robert. (See Ripson and Watson.)						
Watson, Sam, Straughn, Ind. Wire-fence machine	322,872	July 21	1972	522	32	374
Watson, Theodore F., New Milford, Conn. Case for cards, samples, &c	328,161	Oct. 13	851	221	33	161
Watson, Thomas A., Houston, Tex. Mosquito-net frame	325,464	Sept. 1	333	80	32	1079
Watson, Thomas K. (See Grath and Watson.)						
Watson, Walter, Fayetteville, N. C. Turpentine-hacker	327,207	Sept. 29	2695	700	32	1536
Watt, Alexander, Liverpool, county of Lancaster, England. Electric driving apparatus for centrifugal machines	316,316	Apr. 21	1839	485	31	346
Watt, Alexander, Liverpool, county of Lancaster, England. Electric driving apparatus for centrifugal machines	316,317	Apr. 21	1841	486	31	346
Watt, Henry C., Philadelphia, Pa. Electrical conductor	310,345	Jan. 6	252	69	30	48
Watt, John B., et al. (See Clinton, Fred S., assignor.)						
Watt, William. (See Reford, Joseph W. J., assignor.)						
Wattie, William, assignor to Knowles Loom Works, Worcester, Mass. Tube-machine	324,198	Aug. 11	1089	294	32	733
Wattles, Joseph W., Canton, Mass. Traveler-clearer for ring-spinning frames	328,969	Oct. 27	1977	513	33	382
Watts, Campbell Company. (See Young, John, assignor.)						
Watts, Charles, Logansport, Ind. Signal-light. (Reissue)	10,565	Feb. 24	2153	585	30	769
Watts, Charles, Crooksville, Ohio. Jar-fastener	326,696	Sept. 22	1969	517	32	1400
Watts, Daniel B., assignor of one-half to G. W. Dunn, Montrose, Mo. Printer's galley	332,686	Dec. 15	2096	551	33	1384
Watts, Elias, Keyport, N. J. Oyster dredge	322,511	July 21	1496	393	32	228
Watts, Ephraim, Middletown, Pa. Fire-escape	314,355	Mar. 24	1784	474	30	1135
Watts, Henry P., assignor of two-thirds to M. Duffner, T. M. Harwood, and S. B. Haney, Lynchburg, Va. Fan attachment	312,413	Feb. 17	1306	360	30	607
Watts, John-W., Montgomery, Ala. Thill-holder for harness	313,266	Mar. 3	336	83	30	837
Watts, William W., Louisville, Ky. Pocket toilet-case	330,649	Nov. 17	1625	437	33	832
Way, Francis K., Springfield, Ohio, assignor to S. C. Mendenhall, Richmond, Ind. Caster	314,764	Mar. 31	2349	622	30	1265
Way, George W., Portland, and A. F. Hill, Deering, assignors to Hill & Way Gate Company, Portland, Me. Railway-gate	320,627	June 23	2544	674	31	1537
Way, J. Howard, Philadelphia, Pa. Leggin	332,630	Dec. 15	2010	527	33	1369
Way, William, Wilfrid, Ontario, Canada. Lumber-transporter	328,928	Oct. 20	1731	450	33	332
Way, William O. (See Heintz, Philip, assignor.)						
Wayland, James, assignor to G. M. Ballard, Newark, N. J. Trunk-catch	311,276	Jan. 27	1501	410	30	297
Waymoth, Augustine D., Fitchburg, Mass. Wood-turning lathe	319,531	June 9	761	203	31	1197
Wayne Agricultural Company. (See Fulgham, Jesse P., assignor.)						
Wear, William F., Buffalo Springs, Tex. Corn and cotton planter	326,609	Sept. 22	1851	465	32	1378
Weast, George B., Newville, Pa. Sheet-metal roof	329,789	Nov. 3	487	123	33	597
Weatherbee, Brayton A., Warren, N. Y. Machine for gathering stones	312,237	Feb. 10	1058	291	30	552
Weatherhead, Albert J. (See Claas and Weatherhead.)						
Weatherhead, Albert J. (See Claas, Weatherhead, and Collins.)						
Weatherhead, Albert J., Cleveland, Ohio. Force and drain faucet	319,647	June 9	922	243	31	1226
Weatherly, Alvin M., Selma, Ala. Journal-bearing	318,334	May 19	1884	506	31	867
Weatherly, Jared G., Tecumseh, Ala. Fish-hook	326,616	Sept. 22	2160	564	32	1434
Weatherly, William L., Philadelphia, Pa. Cuff-retainer	328,735	Oct. 20	1625	423	33	311
Weathers, James, Indianapolis, Ind. Combined anvil, vise, and drill	311,394	Jan. 27	1660	433	30	325
Weatherwax, Leon J. (See Doddridge, Loyal M., assignor.)						
Weaver, Benjamin, Pittsburg, Pa. Guide-box	315,362	Apr. 7	519	132	31	94
Weaver, Charles P., Norristown, Pa. Furnace for bluing tacks	313,698	Mar. 10	890	232	30	953
Weaver, Charles P., assignor of one-half to G. Harman, Norristown, Pa. Sorting-spool for tack-machines	315,194	Apr. 7	303	72	31	54
Weaver, Devalson G., et al. (See Hemingway, Henry N., assignor.)						
Weaver, E. Forrest, assignor of one-half to G. H. Perkins, Philadelphia, Pa. Revolving telephone-stand	317,252	May 5	440	110	31	603
Weaver, Ephraim E., assignor to P. I. Fitzgerald, Philadelphia, Pa. Electrical indicator for letter-boxes	329,245	Oct. 27	2347	607	33	449
Weaver, Isaac D., assignor to himself and B. F. Harpel, Lebanon, Pa. Rotary blower	320,196	June 16	1671	444	31	1368

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Weaver, Isaac D., assignor to himself, C. Bowman, and E. H. Brooks, Lebanon, Pa. Ratch-et-drill	329,790	Nov. 3	487	123	33	508
Weaver, James H., assignor to Ewart Manufacturing Company, Chicago, Ill. Drive-chain	332,311	Dec. 15	1560	410	33	1291
Weaver, John W. (See Hill, Louis C., assignor.)						
Weaver, Samuel, Pottstown, Pa. Door-check	319,532	June 9	764	204	31	1198
Weaver, Samuel J. (See O'Brien and Weaver.)						
Weaver, Samuel J., assignor of one-half to J. O'Brien, St. Louis, Mo. Feed-water heater	330,650	Nov. 17	1627	437	33	832
Weaver, Solomon F., Portis, Kans. Cultivator	315,865	Apr. 14	1230	321	31	230
Weaver, Solomon F., Portis, Kans. Cultivator	315,866	Apr. 14	1232	321	31	230
Weaver, Theophilus, et al. (See Sullenberger, Samuel A., assignor.)						
Weaver, Theophilus, Harrisburg, Pa. Weather-strip	311,929	Feb. 10	626	173	30	473
Webb, Arthur A., et al. (See Baldwin, Charles W., assignor.)						
Webb, Carlos N., assignor to P. D. Randall, Lansingburg, N. Y. Whip-socket	330,448	Nov. 17	1382	368	33	783
Webb, Charles B., Hopkinsville, Ky. Metal breeching-eye	318,527	May 26	2142	577	31	943
Webb, Charles B., Hopkinsville, Ky. Trace-hook	329,106	Oct. 27	2153	557	33	412
Webb, Charles C., New York, N. Y. Sash-cord fastener	327,027	Oct. 6	170	42	33	31
Webb, J. Harry, Middle Settlement, Ark. Spoke-socket	331,591	Dec. 1	525	127	33	1069
Webb, Jesse G., Boston, Mass. Toy	311,215	Jan. 27	1408	384	30	279
Webb, Jesse G., Boston, Mass. Ice-cream freezer	332,466	Dec. 15	1770	463 464	33	1327
Webb, Job, Alameda County, Cal. Puddling-furnace	315,096	Apr. 7	150	35	31	28
Webb, John R., St. Joseph, Mich. Cooking-stove	324,055	Aug. 11	873	241	32	602
Webb, Justice, et al. (See Cantrill, James E., assignor.)						
Webb, Justice, et al. (See Welling, John E., assignor.)						
Webb, Richard H. (See Gray, Watson, assignor.)						
Webb, Thomas. (See Bracher and Webb.)						
Webb, William. (See Doriot, Victor, assignor.)						
Webber, Charles C., Holyoke, Mass., assignor to himself, and T. Campbell, Chicago, Ill. Cloth measuring and inspecting machine	310,757	Jan. 13	765	208	30	150
Webber, Charles G., assignor to S. A. Webber, Flushing, N. Y. Lamp-burner	310,346	Jan. 6	252	69	30	48
Webber, Guy. (See Spivey, Thomas S., assignor.)						
Webber, Josiah A., Brooklyn, assignor, by mesne assignments, to C. F. Hawkins, Goshen, N. Y. Corn-husking machine	327,042	Sept. 29	2471	645	32	1496
Webber, Samuel S., Lawrence, Mass. Spindle	328,096	Oct. 13	770	201	33	146
Webber, Sarah A. (See Webber, Charles G., assignor.)						
Webber, William O., Lawrence, Mass. Stuffing-box	331,014	Nov. 24	2103	560	33	929
Weber, Adolph, assignor of one-half to H. W. Rood, Detroit, Mich. Straight-way-valve case	316,588	Apr. 28	2213	522	31	420
Weber, Alfred, Jersey City, N. J. Dumping-scow	311,698	Feb. 3	310	85	30	407
Weber, Caspar, Chicago, Ill. Velocipede	333,268	Dec. 29	2917	763	33	1546
Weber, Frank, Cincinnati, Ohio. Toy top	327,043	Sept. 29	2472	646	32	1496
Weber, Frederick, Philadelphia, Pa. Drawing-board	312,535	Feb. 17	1483	405	30	638
Weber, Frederick C., Chicago, Ill. Apparatus for applying liquid fuel to blast-furnaces	325,292	Sept. 1	85	25	32	1032
Weber, Frederick C., Chicago, Ill. Smelting ore by means of petroleum	325,293	Sept. 1	85	25	32	1032
Weber, Frederick D., assignor, by mesne assignments, to M. Weber, East New York, N. Y. Paper-file	310,758	Jan. 13	768	206	30	151
Weber, George. (See Hoffman and Weber.)						
Weber, George, Brooklyn, N. Y. Surgical chair	313,636	Mar. 10	810	212	30	937
Weber, George J., Boonville, Mo. Architectural column	317,053	May 5	160	40	31	551
Weber, George J., Boonville, Mo. Tire-setter	317,054	May 5	161	40, 41	31	552
Weber, Jacob, assignor to himself and W. F. Lennon, New York, N. Y. Sash-balance	331,592	Dec. 1	525	127	33	1069
Weber, Louis. (See Page and Weber.)						
Weber, Louis. (See Page and Weber.) (Reissue.)						
Weber, Meta. (See Weber, Frederick D., assignor.)						
Weber, Nicholas J., et al. (See Weber, Peter F., assignor.)						
Weber, Otto E. (See Scribner, James H., assignor.)						
Weber, Peter F., assignor of two-thirds to N. J. Weber and G. Brommorsberger, Chicago, Ill. Coffee and tea box	319,533	June 9	765	204	31	1198
Weber, Theodor K. A., New York, N. Y., C. G. E. Hennig and A. E. Frommelt, Paterson, N. J. Tricycle	321,162	June 30	2997	795	31	1626
Weber, Theodore A., New York, N. Y., assignor to K. Faulkner, Jersey City, N. J. Shuttle-motion for looms	312,680	Feb. 24	1665	459	30	683
Weber, Theodore A., New York, N. Y., assignor to Ansonia Brass and Copper Company, Ansonia, Conn., and W. A. Hull, New York, N. Y. Suspension device for lamps	323,089	July 28	2290	606	32	440
Weber, Theodore A., New York, N. Y., assignor to Ansonia Brass and Copper Company, Ansonia, Conn., and W. A. Hull, New York, N. Y. Suspension device for lamps	323,090	July 28	2293	606	32	440
Weber, Theodore A., New York, N. Y., assignor to Ansonia Brass and Copper Company, Ansonia, Conn., and W. A. Hull, New York, N. Y. Suspension device for lamps	323,091	July 28	2296	606	32	441
Weber, Valentin, and J. R. Harrison, assignors of one-third to W. Harrison, Princeville, Ill. Automatic weighing-machine	326,074	Sept. 8	1140	290	32	1232
Webster, Clinton F., Brockton, Mass. Tag	323,472	Aug. 4	113	33	32	543
Webster & Comstock Manufacturing Company. (See Chivill, John, assignor.)						
Webster, Daniel W., Christiansburg, Pa. Traction-engine	331,593	Dec. 1	526	128	33	1090
Webster, Edward E., Brainerd, Minn. Paper-file	331,172	Nov. 24	2319	628 629	33	968
Webster, George H. (See Bouchard, John, assignor.)						
Webster, Hanson S., Boonville, N. Y. Folding table	328,990	Oct. 27	1979	514	33	322
Webster, Henry W., Nashua, N. H. Washing-machine	324,109	Aug. 11	1091	295	32	734
Webster, Ivory, West Liberty, Iowa. Machine for laying drain-tile	320,246	Oct. 27	2348	608	33	449
Webster, John F., W. H. and C. F. Pease, Elkhart, Ind.; said W. H. and C. F. Pease as assignors to said Webster. Harvester-knife grinder	323,244	July 28	2501	664 665	32	479
Webster, John H. (See Balder, William, assignor.)						
Webster, Joshua B., et al. (See Vaughn and Eldridge, assignors.)						
Webster, Justus, assignor to Grosvenor & Richards, Boston, Mass. Lint-making machine	321,409	June 30	3312	884	31	1685
Webster, Walter, Richmond, Ind. Trundle and hoop	329,518	Nov. 3	125	33, 34	33	529
Webster, William. (See Warburton, George, assignor.)						
Weck, Friedrich, Lilleshall, county of Salop, England. Apparatus for washing and scrubbing coal-gas	321,870	July 7	639	165 166	32	116
Wecker, Carl T., Offenbach-on-the-Main, Germany. Hub attaching device	321,068	June 30	2283	767	31	1006
Weddle, Henry, Sherman, Tex. Combined land-roller and plow	313,563	Mar. 10	718	188	30	920
Wedelin, Carl R., Gothenburg, Sweden. Horseshoe-machine	318,838	May 26	2559	681 682	31	1016
Wedlake, James, Brantford, Ontario, and L. M. Jones, Winnipeg, Manitoba, assignors to A. Harris, Son & Co., (limited,) Brantford, Canada. Grain-binder	323,001	July 28	2165	575	32	417

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Weeden, Alfred, assignor of one-half to J. W. Bradshaw, Bon, Wis. Post-driver	332,687	Dec. 15	2007	551	33	1384
Weeden, Henry C., Boston, Mass. Supply-valve for the flushing-tanks of water-closets, &c.	317,055	May 5	162	41	31	552
Weeden, Henry C., Boston, Mass. Drafting-table	318,528	May 26	2143	577	31	944
Weeden, Henry C., Boston, Mass. Water-closet bowl	323,473	Aug. 4	114	33	32	543
Weeden, Henry C., Boston, Mass. Water-closet bowl	323,549	Aug. 4	221	65	32	563
Weeden, William N., New Bedford, Mass. Toy motor	318,335	May 10	1845	507	31	887
Weeks, Abner B., assignor of one-half to F. Cobb, Rockland, Me. Limekiln	310,759	Jan. 13	768	208	30	151
Weeks, Albert W., Newton Upper Falls, Mass. Shoe tying and knotting machine	329,519	Nov. 3	126	34	33	529
Weeks, Albert W., Lynn, Mass. Automatic stop-motion	329,520	Nov. 3	133	35	33	530
Weeks, Albert W., Lynn, Mass. Shoe tying and knotting machine	329,521	Nov. 3	135	35	33	530
Weeks, Chester B., Jackson, Mich. Garment-clasp	327,363	Sept. 29	2898	756	32	1570
Weeks, John, assignor to R. Dudgeon, New York, N. Y. Hydraulic jack	330,760	Nov. 17	1777	479	33	860
Weeks, John, New York, and H. Traver, Brooklyn, assignors to R. Dudgeon, New York, N. Y. Hydraulic jack	330,759	Nov. 17	1775	479	33	860
Weese, John O., Knobel, Ark. Washing-machine	318,584	May 26	2327	595	31	956
Wegley, Austin, Lincoln Centre, Kans. Windmill	310,237	Jan. 6	95	26	30	90
Wegman, John, Jr., Rochester, N. Y. Middlings-purifier brush	319,763	June 9	1067	983	31	1253
Wegmann, Friedrich, Zurich, Switzerland. Roller grinding-mill. (Release)	10,571	Mar. 10	1101	26	30	990
Wegmann, Friedrich, Zurich, Switzerland. Roller grinding-mill. (Release)	10,579	Apr. 7	661	170	31	118
Wegmann, Friedrich, Zurich, Switzerland. Wheel-gearing for rollers of rolling-mills	319,648	June 9	923	244	31	1226
Wegner, Delfe F., Valley City, Dak. Ter. Broadcast-sower, land-roller, and double revolving harrow	314,765	Mar. 31	2350	622	30	1265
Wehner, Christian, Buffalo, N. Y. Cleaning-brush for middlings-purifiers	311,722	Feb. 3	917	61	30	329
Wehrle, Jacob, Cincinnati, Ohio. Bosom-board	317,367	Mar. 3	337	83	30	838
Weickaler, Mathias J. (See Holzboog and Weickaler.)						
Weidenmann, Jacob, and O. Grüniger, New York, N. Y. Apparatus for lowering coffins	329,522	Nov. 3	137	35	33	531
Weidman, George W., Washington, D. C. Treadle for bicycles	331,173	Nov. 24	2321	029	33	968
Weidner, Bennevel B., Reading, Pa. Display-rack	318,336	May 19	1847	508	31	887
Weigel, Joel, and J. Barclay, Erie, Pa. Rope-clamp	325,136	Aug. 25	2353	648	32	983
Weighell, John T. (See Watkins, Frank M., assignor.)						
Weil, Albert E. (See Ferrer, James W., assignor.)						
Weil, Ferdinand, et al. (See Park, John S., assignor.)						
Weil, Joseph, New York, N. Y. Necktie-fastening	312,681	Feb. 24	1667	459	30	683
Weimar, Peter, Philadelphia, Pa. Carriage-door	325,580	Sept. 1	44	121	32	1108
Weimer, Peter L., Lebanon, Pa. Valve for blowing engines	313,140	Mar. 3	135	37	30	801
Weimer, Peter L., Lebanon, Pa. Hoisting-drum for elevators	320,022	June 16	1444	379	31	1326
Weimer, Peter L., Lebanon, Pa. Hoisting-drum for elevators	320,021	June 16	1445	379	31	1327
Weimer, Peter L., Lebanon, Pa. Hoisting-drum	320,024	June 16	1447	380	31	1327
Weimer, Peter L., Lebanon, Pa. Blast-furnace	320,604	June 23	2271	600	31	1485
Weimer, Peter L., Lebanon, Pa. Blast-furnace	320,605	June 23	2273	601	31	1485
Weimer, Peter L., Lebanon, Pa. Valve for steam-engines	323,474	Aug. 4	115	33	32	543
Weimer, Peter L., Lebanon, Pa. Apparatus for converting iron into steel	324,903	Aug. 25	2052	561	32	927
Weimer, Peter L., and H. T. Enston, Lebanon, Pa. Filling furnaces	326,181	Sept. 15	1285	332	32	1266
Weimer, Peter L., and H. T. Enston, Lebanon, Pa. Blast-furnace	326,182	Sept. 15	1288	333	32	1266
Weinberg, Phillip, L. Clark, Jr., and E. Winkler, New York, N. Y. Seal-skin sacque, dolman, and ulster block	312,536	Feb. 17	1424	406	30	639
Weinberg, Phillip, L. Clark, Jr., and E. Winkler, New York, N. Y. Seal-skin sacque, dolman, and ulster block	313,268	Mar. 3	330	83	30	838
Weinadel, Charles. (See Stitzel and Weinadel.)						
Weinadel, Charles, assignor of one-half to O. E. Mueller, Louisville, Ky. Swinging can	329,247	Oct. 27	2351	608	33	249
Weinhausen, Henry, Hoboken, N. J. Thermometer	310,925	Jan. 20	964	268	30	195
Weinman, Christian J., assignor of one-fourth to T. S. Moorman, Dayton, Ohio. Cash register and indicator	321,163	June 30	2998	705	31	1626
Weinsbach, Charles, Jersey City, N. J. Apparatus for cooling air for confectioners' use	331,928	Dec. 8	1017	264	33	1188
Weinstein, Isaac and S., New York, N. Y. Lamp-extinguisher	312,414	Feb. 17	1307	301	30	607
Weinstein, Samuel. (See Weinstein, Isaac and S.)						
Weinstock, Henry B., Fall Creek, Wis. Vehicle-wheel	332,027	Dec. 8	1163	304	33	1214
Weir, Ellsworth E., et al. (See Lindgren, George A., assignor.)						
Weir, Frederic C., Cincinnati, Ohio. Railway-frog	319,362	June 2	521	142	31	1147
Weir, Frederic C., Cincinnati, Ohio. Railway-frog	331,524	Dec. 1	527	128	33	1090
Weir, Frederic C., Cincinnati, Ohio. Railway-frog	332,960	Dec. 22	2496	660	33	1466
Weir, Robert M., Boone, Iowa. Furnace	315,867	Apr. 14	1234	322	31	230
Weir, William H., Springfield, Ohio. Portfolio	325,294	Sept. 1	91	26	32	1032
Weir, William S., Monmouth, Ill. Cultivator	320,519	June 23	2160	570	31	1464
Weir, William S., Monmouth, Ill. Cultivator	324,904	Aug. 25	2054	562	32	927
Weir, Worthington T., Spring Hill, Ill. Key-board for musical instruments	327,628	Oct. 6	171	42	33	31
Weirick, William F., Charlestown, W. Va. Harvester	326,817	Sept. 22	2166	564	32	1434
Weis, Joseph, Jersey City, N. J. Electric locomotive	320,225	June 16	1448	381	31	1328
Weiser, Charles W. (See Zimmerman, Christian H., assignor.)						
Weiser, John W., Chicago, Ill. Wagon-wheel	325,137	Aug. 25	2354	649	32	983
Weisgerber, Charles H., Jr., Philadelphia, Pa. Sled	320,520	June 23	2161	571	31	1464
Weisgerber, Charles H., Jr., Philadelphia, Pa. Convertible chair	325,999	Sept. 8	1033	262	32	1212
Weisgerber, Charles H., Jr., Philadelphia, Pa. Sled	326,362	Sept. 15	1538	399	32	1313
Weisgerber, William F., New York, N. Y. Secondary electric clock	314,634	Mar. 31	2161	574	30	1229
Weisgerber, William F., New York, N. Y. Circuit-closer for primary electric clocks	319,634	June 9	706	205	31	1199
Weiss, Albert R., Brooklyn, N. Y. Bottle-washing machine	329,100	Oct. 27	2154	538	33	412
Weiss, Charles W., Brooklyn, N. Y., assignor to Weiss Manufacturing Company, of New York. Electric gas-lighter	314,088	Mar. 17	1430	374	30	1060
Weiss, Charles W., Brooklyn, assignor of one-half to C. Kruse, New York, N. Y. Electrical registering apparatus	321,069	June 30	2884	767	31	1606
Weiss, Charles W., Brooklyn, and C. Kruse, New York, N. Y. Adding device for check-machines	329,421	Oct. 27	2615	675	33	497
Weiss, Charles W., and C. Kruse, New York, N. Y. Automatic check-machine	313,699	Mar. 10	891	232	30	953
Weiss, Franz J., Basle, Switzerland. Air-pump	314,766	Mar. 31	2352	623	30	1266
Weiss Manufacturing Company. (See Weiss, Charles W., assignor.)						
Weiss, Philip, San Francisco, Cal. Paste-holder	315,195	Apr. 7	304	73	31	54
Weissner, Oscar E. A., et al. (See Spengler, Christian G., assignor.)						
Weitz, Jacob, Buffalo, N. Y. Refrigerator	319,363	June 2	522	142	31	1147

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Weitzel, George, Toledo, Ohio. Drink-register for bottles	327,364	Sept. 29	2899	757	32	1571
Welch, E. B. (See Robinson, Thomas C., assignor.)						
Welch, E. B. (See Warren, Charles T., assignor.)						
Welch, George W., Mobile, Ala. Newspaper-binder	314,159	Mar. 17	1531	399	30	1076
Welch, James F., A. B. Hutchinson, and W. H. Gray, assignors to Glen Cove Machine Company, (limited), Brooklyn, N. Y. Wood-planing machine	324,056	Aug. 11	875	241	32	692
Welch, Lyman W., Montpelier, Vt. Wardrobe-bedstead	311,623	Feb. 3	218	61	30	390
Welch, Marshall M., Atlanta, Ga. Duplex ticket-punch	322,662	July 21	1685	447	32	323
Welch, René H., assignor of two-thirds to G. D. Barnard, St. Louis, Mo. Paper-file	322,663	July 21	1687	448	32	323
Welch, S. Frank, Mount Pleasant, Iowa. Ditching-machine	312,049	Feb. 10	792	217	30	503
Welch, S. Frank, assignor to Western Wheel Scraper Company, Mount Pleasant, Iowa. Road-working machine	323,002	July 28	2167	575	32	417
Welch, William M., Windsor, Ontario, Canada. Wheel-scraper	321,557	July 7	208	55	32	41
Weid, Charles W., Southbridge, Mass. Wire fence	327,208	Sept. 29	2695	700	32	1537
Weidon, Alfred, Buffalo, N. Y. Float for low-water alarms	329,248	Oct. 27	2352	609	33	450
Weidon, Henry J., New York, N. Y. Button-fastener	312,309	Feb. 17	1169	320	30	561
Weidon, Henry J., New York, N. Y. Button-fastener	319,152	June 2	267	70	31	1096
Weidon, James G., <i>et al.</i> (See Pretschold, Hugo, assignor.)						
Welford, Robert, Hunters Hall, Durham Road, Sunderland, county of Durham, England. Direct-acting engine	328,626	Oct. 20	1483	387	33	284
Welker, Joseph, Jr., Central Falls, assignor to J. M. Parker, Pawtucket, R. I. Machine for feeding blanks to lathes	317,601	May 12	904	232	31	695
Welker, assignor to National Furniture Company, (limited), Williamsport, Pa. Table-leaf support	322,125	Dec. 8	1308	340	33	1240
Weller, Joseph, Trexlertown, Pa. Medical compound	311,930	Feb. 10	622	30	30	474
Weller, M. Scott, Charlestown, W. Va. Spoke-socket	323,990	Aug. 11	786	219	32	678
Weller, Michael S., Charlestown, W. Va. Hinge and frame for vault-covers	316,705	Apr. 28	2387	622	31	452
Welles, Edward B. (See Harlwick and Welles.)						
Welles, Richard J., Athens, Pa. Harness check-hook	316,510	Apr. 28	2117	557	31	402
Wellhouse, George, Akron, Ohio. Balance-door for stoves and grates	323,379	July 28	2700	719	32	514
Welling, John E. (See Saunders and Welling.)						
Welling, John E., <i>et al.</i> (See Cantrill, James E., assignor.)						
Welling, John E., assignor of two-thirds to J. E. Cantrill and J. Webb, Georgetown, Ky. Egg-beater	321,327	June 30	3199	853	31	1664
Wellington, Amos L., Lebanon, N. H., assignor to W. C. Smith, St. Albans, Vt. Straw-cutter	327,365	Sept. 29	2901	757	32	1571
Wellington, Arthur M., New York, N. Y. Car-truck	332,981	Dec. 22	2497	660	33	1466
Wellington, Frank O., Boston, Mass. Machinery for sowing fertilizing material	319,155	June 2	270	71	31	1097
Wellington, Isaac M. (See Macchia, Charles, assignor.)						
Wellman, Francis A., Owosso, Mich. Lathe	328,000	Sept. 8	1034	263	32	1913
Wells, Chester H., Meshoppen, Pa. Attachment for combs	325,226	Aug. 25	2476	681	32	1006
Wells & Co., C. F. (See Irwin, George L., assignor.)						
Wells, Edgar J., Ticonderoga, N. Y. Oiler	319,154	June 2	269	71	31	1097
Wells, Frank R., assignor to himself, W. W. Neal, and P. Haerr, Lagouda, Ohio. Skillet-cap	315,196	Apr. 7	305	73	31	54
Wells, Frederic E., Greenfield, Mass. Die-stock	311,549	Feb. 3	122	37	30	373
Wells, G. H. (See Downing, James L., assignor.)						
Wells, George H., assignor of one-half to F. R. Chapman, Boston, Mass. Trunk	331,351	Dec. 1	131	32	33	1021
Wells, George W., Southbridge, Mass. Spring and nose-guard for eyeglasses	331,465	Dec. 1	303	81	33	1052
Wells, George W., assignor to American Optical Company, Southbridge, Mass. Bifocal lens for spectacles and eyeglasses	319,153	June 2	267	71	31	1096
Wells, George W., assignor to American Optical Company, Southbridge, Mass. Cushion for eyeglass nose-guards	323,550	Aug. 4	222	66	32	563
Wells, Heber, Paterson, N. J. Stand for type-cases	327,629	Oct. 6	174	43	33	31
Wells, Henry H. (See Walker, James T., assignor.)						
Wells, Irvin I., <i>et al.</i> (See Caley, Edward L., assignor.)						
Wells, Isaac J., Nantuet, N. Y. Combined fire-box, grate, and sifter for stoves	317,901	May 12	1305	349	31	771
Wells, Joseph L., Philadelphia, Pa., assignor to Weston & Wells Manufacturing Company, Camden, N. J. Boom-pad	325,030	Aug. 25	2220	609	32	958
Wells, Joseph L., Philadelphia, Pa., assignor to Weston & Wells Manufacturing Company, Camden, N. J. Bustle	325,031	Aug. 25	2220	609	32	958
Wells & Son, J. I. (See Howard, Stephen H., assignor.)						
Wells, Thomas W., Gann City, Mo. Fastening for egg-carriers	324,619	Aug. 18	1657	457	32	646
Wells, Willet C., Tiffin, Ohio. Well-boring machine	315,668	Apr. 14	1235	322	31	231
Wells, Willet C., Tiffin, Ohio. Well-tube for drive-wells	316,319	Apr. 21	1842	426	31	346
Wells, Willet C., Tiffin, Ohio. Self pumping and expanding well-drill	332,688	Dec. 15	2098	551	33	1385
Welsh, Anthony, <i>et al.</i> (See Dunbar, Junius H., assignor.)						
Welsh, Henry D. (See Reichert, Edward T., assignor.)						
Welsh, Henry D., Philadelphia, Pa. Cable-conduit	322,225	July 14	1107	288	32	311
Welsh, James, Plymouth, Pa. Feed-water heater	310,908	Jan. 20	1053	286	30	297
Welsh, William J. (See Hill, George H., assignor.)						
Welte, Andrew, Atchison, Kans. Steam generator	311,395	Jan. 27	1662	454	30	326
Wempe, Hermann H., Canioma, Kans. Apparatus for watering swine	316,319	Apr. 21	1843	426	31	347
Wemple, Alonzo E., Brooklyn, N. Y. Fertilizer	330,075	Nov. 10	691	33	33	621
Wende, Herman. (See Armstrong, Albert, assignor.)						
Wendell, Horace S. (See Trout, Silas E., assignor.)						
Wendell, Isaac P., assignor to C. P. Tasker, Philadelphia, Pa. Composition of matter for the manufacture of axle-bearings	325,881	Sept. 8	890	32	32	1187
Wendell, Isaac P., assignor to C. P. Tasker, Philadelphia, Pa. Composition of matter for the manufacture of axle-bearings, &c.	325,882	Sept. 8	890	32	32	1187
Wendell, Isaac P., assignor to C. P. Tasker, Philadelphia, Pa. Composition of matter for the manufacture of axle-bearings, &c.	325,883	Sept. 8	891	32	32	1187
Wendell, Isaac P., assignor to C. P. Tasker, Philadelphia, Pa. Composition of matter for the manufacture of axle or journal bearings	325,884	Sept. 8	891	32	32	1187
Wendell, Isaac P., assignor to C. P. Tasker, Philadelphia, Pa. Composition of matter for the manufacture of axle-bearings, &c.	325,885	Sept. 8	891	32	32	1187
Wendell, Isaac P., assignor to C. P. Tasker, Philadelphia, Pa. Composition of matter for the manufacture of axle-bearings, &c.	325,886	Sept. 8	892	32	32	1187
Wendell, Isaac P., assignor to C. P. Tasker, Philadelphia, Pa. Composition of matter for the manufacture of axle-bearings, &c.	325,887	Sept. 8	892	32	32	1187
Wendell, Isaac P., assignor to C. P. Tasker, Philadelphia, Pa. Composition of matter for the manufacture of axle-bearings, &c.	325,888	Sept. 8	893	32	32	1187
Wendell, Isaac P., assignor to C. P. Tasker, Philadelphia, Pa. Composition of matter for the manufacture of axle-bearings, &c.	325,889	Sept. 8	893	32	32	1187

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Wendell, Isaac P., assignor to C. P. Tasker, Philadelphia, Pa. Composition of matter for use as insulating material	325,880	Sept. 8	893	32	1187
Wendell, Isaac P., assignor to C. P. Tasker, Philadelphia, Pa. Composition of matter for use as insulating material	325,891	Sept. 8	894	.....	32	1187
Wendemuth, Charles. (See Volk, Jacob, assignor.)						
Wendling, George. (See Gilbert and Wendling.)						
Wendt, Arthur F. (See Dingle and Jenkins, assignors.) (Reissue.)						
Wendt, Arthur F., New York, N. Y. Apparatus for recovering volatilized metals	311,609	Feb. 3	312	85	30	408
Wendt, William F. (See Osgood, J. Lester, assignor.)						
Wenigmann, Paul, assignor to W. D. Clark, Chicago, Ill. Electric belt	328,829	Oct. 20	1732	450	33	332
Wenmaekers, Jerome, Antwerp, Belgium, assignor to himself and P. Goepel, New York, N. Y. Combined aquarium and maritime theater	324,508	Aug. 18	1506	412	32	817
Wentz, George W., Tedrow, Ohio. Bag-holder	313,902	Mar. 17	1184	308	30	1014
Werden, Clinton A., et al. (See Werden, Cyrus A., assignor.)						
Werden, Cyrus A., assignor of three-fourths to W. B., F. H., and C. A. Werden, Waukegan, Ill. Horse hay-rake	316,706	Apr. 22	2388	622	31	452
Werden, Francis H., et al. (See Werden, Cyrus A., assignor.)						
Werden, William B., et al. (See Werden, Cyrus A., assignor.)						
Werk, Casimir L., Westwood, Ohio. Candle-machine	319,156	June 2	271	72	31	1097
Workheiser, Monroe, Phillipsburg, N. J. Bridle	313,141	Mar. 3	136	33	30	802
Werkzeug und Maschinenfabrik Oerlikon. (See Müller, Hermann, assignor.)						
Werner, August, New York, N. Y. Sash-balance	321,871	July 7	641	166	32	117
Werner, August, New York, N. Y. Apparatus for filling bottles with highly-aerated liquids without pressure	323,612	Aug. 4	300	86	32	578
Werner, Emil, New York, N. Y., assignor of one-half to A. W. Gorner, Philadelphia, Pa. Car starter and brake	323,367	Dec. 29	3046	795	32	1568
Werner, Emmerich A., New York, N. Y. Bridge	311,024	Feb. 3	210	62	30	390
Werner, Emmerich A., New York, N. Y. Bridge	329,249	Oct. 27	2353	609	32	450
Werner, Gustav H., St. Louis, Mo. Ice-tongs	329,523	Nov. 3	140	36	33	531
Werner, Hermann, Cannstadt, Württemberg, Germany. Dough-kneading machinery	329,110	Oct. 27	2156	558	32	413
Werner, Leopold, Newark, N. J. Fire-escape	323,092	July 28	2208	607	32	441
Werner, Louis C., Broad Brook, Conn. Shuttle-box motion for looms	315,683	Apr. 14	978	256	31	184
Wert, Frank A., et al. (See Anderson, Archie, assignor.)						
Werth, Carl J. (See Brandt and Werth.)						
Werts, William, Camden, N. J. Sheet-metal-cutting press	326,183	Sept. 15	1290	333 334	32	1267
Wertz, Daniel, Fayette, Mo. Car-coupling	324,908	Aug. 25	2137	584	32	943
Werum, Charles A. (See Werum, Phillip, assignor.)						
Werum, John H. (See Werum, Mary M. and J. H.)						
Werum, Mary M. and J. H., assignors, by means assignments, to M. M. Werum, Toledo, Ohio. Abdominal supporter	323,003	July 28	2168	575 576	32	418
Werum, Phillip, Stryker, Ohio. Horse hay-fork	316,857	Apr. 28	2005	680	31	402
Werum, Phillip, Stryker, assignor to C. A. Werum, Sherwood, Ohio. Pulley	312,682	Feb. 24	1668	450	30	683
Weacott, Earl A., and E. K. Bristol, Minneapolis, Minn. Car-brake	321,070	June 30	2885	767	31	1606
Weacott, Edwin J. (See Stevens and Weacott.)						
Weasely, Carl, West New York, N. J. Wash-tub, sink, or other vessel made of cement, &c.	327,209	Sept. 29	2696	701	32	1537
Weasely, John, Chicago, Ill. Two-wheeled vehicle	310,760	Jan. 13	769	208 209	30	151
Weasell, Otto, A. N. Y. I. and R. Gros, New York, N. Y. Piano-forte damper	312,776	Feb. 24	1797	495	30	706
Weason, Daniel B. (See Landers and Weason.)						
Weason, Daniel B., Springfield, Mass. Safety-lock mechanism for fire-arms	323,538	Aug. 4	586	165	32	634
Weason, Daniel B., Springfield, Mass. Safety-lock mechanism for fire-arms	323,539	Aug. 4	587	165	32	634
Weason, Daniel B. and J. H. Springfield, Mass. Revolving fire-arm	323,537	Aug. 4	584	165	32	633
Weason, James H., Attalla, Ala. Car-coupling	324,969	Aug. 25	2138	544	32	943
Weason, John W., Attalla, Ala. Water-wheel	322,028	July 14	851	221	32	163
Weason, Joseph H. (See Weason, Daniel B. and J. H.)						
Weason, Joseph H., Springfield, Mass. Percussion gas-lighter	323,893	Aug. 4	659	186	32	647
Weason, Joseph H., assignor to Smith & Weason, Springfield, Mass. Drilling-machine	323,892	Aug. 4	656	185	32	647
West, Arnold J., Aberdeen, Wash. Ter. Indicator for saw-mill set-works	325,295	Sept. 1	92	26	32	1032
West, Charles N., San Francisco, Cal. Electrical therapeutical belt	322,467	Dec. 15	1772	464	33	1328
West, Edward W., Jr. (See Conway, Andrew J., assignor.)						
West Haven Buckle Company. (See Hyde, James C., assignor.)						
West Haven Buckle Company. (See Kelsey, Jarvis E., assignor.)						
West Haven Buckle Company. (See Thompson, Don S., assignor.)						
West, Horatio D., St. Paul, Minn. Rack for newspaper-files	321,164	June 30	3001	795	31	1626
West, James, Ballston Spa, N. Y., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine	324,620	Aug. 18	1667	457 458	32	846
West, John J., Chicago, Ill. Construction of vases having a body made of plastic material	311,092	Jan. 20	1927	336	30	241
West, Jonathan B., Rochester, N. Y. Machine for trimming edgings	331,015	Nov. 24	2104	569	33	929
West, Jonathan B., Rochester, assignor to L. N. Asiel & Co., and B. Galland, New York, N. Y. Embroidery-holder. (Reissue.)	10,553	Jan. 13	904	245	30	176
West, Joseph D., East Orange, N. J. Gas-regulator	323,138	Aug. 25	2356	649	32	984
West, Judson T., Hope, Ark. Flooring-machine	327,842	Oct. 6	433	114	33	77
West, Samuel C., Elizabeth, N. J. Furnace for the manufacture of zinc-white	328,097	Oct. 13	771	201	33	146
West, Stillman A., Racine, Wis. Boot or shoe	315,869	Apr. 14	1236	322	31	231
West Telephone Company. (See West, William A., assignor.)						
West, Theodore S., Alexandria, Va., assignor of one-half to W. W. Lecture, Washington, D. C. Paper box	315,454	Apr. 7	652	168	31	116
West, Thomas P., Lyndfield, assignor of one-half to E. F. Bickford, Malden, Mass. Clasp for shoes or other articles	320,104	June 16	1554	411	31	1347
West, William A., Bellefontaine, Ohio, assignor to West Telephone Company, (limited,) Kenosha, Wis. Receiver for telephonic telegraphs	329,982	Nov. 10	755	193	33	653
West, William A., Bellefontaine, Ohio, assignor to West Telephone Company, (limited,) Kenosha, Wis. Telephone	329,983	Nov. 10	756	193	33	653
West, William A., Bellefontaine, Ohio, assignor to West Telephone Company, (limited,) Kenosha, Wis. Telephonic telegraph	329,984	Nov. 10	758	194	33	653
Westaway, Walter C., Beloit, Wis. Grinding-mill. (Reissue.)	10,634	Aug. 11	1288	349	32	770
Westbrook, Charles S., Spragueville, N. Y. Chuck for rock-drills	311,396	Jan. 27	1062	454	30	526
Westbrook, Charles S., Spragueville, N. Y. Rock-drill	312,537	Feb. 17	1485	406	30	639
Westbrook, Charles S., Spragueville, N. Y. Rock-drill	312,538	Feb. 17	1488	406	30	640
Westbrook, Charles S., Spragueville, N. Y. Support for rock-drills	312,539	Feb. 17	1489	406	30	640
Westbrook, Charles S., Spragueville, N. Y. Support for rock-drills	312,540	Feb. 17	1491	407	30	640
Westbrook, Charles S., Spragueville, N. Y. Rock-drill	323,245	July 28	2503	665	32	479

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Westbrook, Cherrick, Harrisburg, Pa. Automatic chemical telegraph	313,791	Mar. 10	1026	264	30	796
Westbrook, Cherrick, Harrisburg, Pa. Automatic telegraphy	313,792	Mar. 10	1026	264	30	977
Westbrook, Frank A., and W. S. Cook, Port Jervis, N. Y. Car-coupling	320,314	June 16	1862	489	31	1401
Westbrook, Frank A., and W. S. Cook, Port Jervis, N. Y. Car-coupling	321,328	June 30	3800	853	31	1665
Westbrook, Frank A., and W. S. Cook, Port Jervis, N. Y. Car-coupling	324,740	Aug. 18	1816	502	32	877
Westbrook, John C. (See Fowler, Thomas J., assignor.)						
Westcott, Charles E., Providence, R. I. Ear-ring	330,991	June 30	2775	737	31	1586
Westcott, Charles H., Seneca Falls, N. Y. Toy building-block	319,764	June 9	1068	284	31	1253
Westcott, John H., Oneida, N. Y. Drill-chuck	315,684	Apr. 14	960	257	31	184
Westcott, John H., Oneida, N. Y. Lathe-chuck	315,685	Apr. 14	960	257	31	184
Westcott, John M., assignor to Hoosier Drill Company, Richmond, Ind. Grain-drill	311,397	Jan. 27	1664	454	30	326
Westerdahl, Axel K. (See Harström and Westerdahl.)						
Westerlund, Aron F., Stockholm, Sweden. Carbonaceous antiseptic dressing	322,664	July 21	1888		32	333
Westerman, George, Sr., Lockport, N. Y. Pile for merchant iron	316,909	Apr. 21	1697	445	31	322
Western Electric Company. (See Jackson and Cole, assignors.)						
Western Electric Company. (See Patterson, William R., assignor.)						
Western Electric Company. (See Patterson, William R., assignor.) (Reissue.)						
Western Electric Company. (See Scribner, Charles E., assignor.)						
Western Electric Company. (See Seely, John A., assignor.)						
Western Electric Company. (See Warner, James C., assignor.)						
Western Electric Company. (See Young, John, assignor.)						
Western Electric Manufacturing Company. (See Firman, Leroy B., assignor.)						
Western Improved Dredging Company. (See O'Donnell, George M., assignor.)						
Western Union Telegraph Company. (See Hamilton, George A., assignor.)						
Western Union Telegraph Company. (See Nicholson, Henry C., assignor.)						
Western Union Telegraph Company. (See Scott, George B., assignor.)						
Western Wheel Scraper Company. (See Smith, Charles H., assignor.)						
Western Wheel Scraper Company. (See Welch, S. Frank, assignor.)						
Westervelt, Douglas, assignor to himself and J. S. Bassett, Chicago, Ill. Stop and waste cock	333,368	Dec. 29	3047	795	33	1569
Westgate, Joseph D., assignor of three-fourths to F. N. Eddy, A. Elcock, and W. E. Hadwen, Worcester, Mass. Barrel-sustaining apparatus	329,524	Nov. 3	140	36	33	531
Westinghouse, George, Jr. (See Hambay, James T., assignor.)						
Westinghouse, George, Jr. (See Merrill, Edwin C., assignor.)						
Westinghouse, George, Jr., Pittsburg, Pa. Pressure-regulator	310,347	Jan. 6	254	70	30	43
Westinghouse, George, Jr., Pittsburg, Pa. Pressure-regulator and relief-valve	310,348	Jan. 6	255	70	30	48
Westinghouse, George, Jr., Pittsburg, Pa. Detecting leaks in gas-mains. (Reissue.)	10,561	Feb. 17	1566	427	30	656
Westinghouse, George, Jr., Pittsburg, Pa. Detecting leaks in gas-mains	312,541	Feb. 17	1492	407	30	640
Westinghouse, George, Jr., Pittsburg, Pa. Detecting leaks in gas-mains	312,542	Feb. 17	1493	407	30	641
Westinghouse, George, Jr., Pittsburg, Pa. Pressure-regulator and cut-off	312,543	Feb. 17	1494	407	30	641
Westinghouse, George, Jr., Pittsburg, Pa. Carrying off leakage from gas-mains	312,777	Feb. 24	1798	495	30	706
Westinghouse, George, Jr., Pittsburg, Pa. Connection for pipe-lines	313,393	Mar. 3	494	129	30	668
Westinghouse, George, Jr., Pittsburg, Pa. System for the protection of railway-tracks and gas-pipe lines	314,089	Mar. 17	1432	374	30	1060
Westinghouse, George, Jr., Pittsburg, Pa. Detecting leaks in gas-mains	315,363	Apr. 7	520	133	31	94
Westinghouse, George, Jr., Pittsburg, Pa. Regulator for gas and air supply to furnaces	318,839	May 26	2566	682	31	1016
Westinghouse, George, Jr., Pittsburg, Pa. Pipe-coupling for gas-mains	318,840	May 26	2567	683	31	1017
Westinghouse, George, Jr., Pittsburg, Pa. Pipe-joint for gas-mains	318,841	May 26	2568	683	31	1017
Westinghouse, George, Jr., Pittsburg, Pa. Detecting and carrying off leakage from gas-mains	319,364	June 2	523	142	31	1147
Westinghouse, George, Jr., Pittsburg, Pa. Pipe-line for gas supply	319,365	June 2	524	143	31	1147
Westinghouse, George, Jr., Pittsburg, Pa. Stop-valve box for pipe-lines	319,765	June 9	1069	284	31	1254
Westinghouse, George, Jr., Pittsburg, Pa. Pipe-line	323,246	July 28	2505	665	32	480
Westinghouse, George, Jr., Pittsburg, Pa. Conveying and supplying gas	323,840	Aug. 4	587	165	32	634
Westinghouse, George, Jr., Pittsburg, Pa. Pressure-regulator and cut-off	324,905	Aug. 25	2056	563	32	927
Westinghouse, George, Jr., Pittsburg, Pa. Conveying and supplying gas	328,368	Oct. 13	1117	289	33	211
Westinghouse, George, Jr., Pittsburg, Pa. Detecting and carrying off leakage from gas-mains	330,179	Nov. 10	1020	266	33	707
Westinghouse, George, Jr., Pittsburg, Pa. Detecting and carrying off leakage from gas-mains	331,595	Dec. 1	528	128	33	1090
Westinghouse, George, Jr., Pittsburg, Pa. Detecting and closing leaks in gas-mains	331,596	Dec. 1	529	129	33	1090
Westinghouse, H. Herman, New York, N. Y., assignor to Westinghouse Machine Company, Pittsburg, Pa. Steam-engine lubricating attachment. (Reissue.)	10,586	Apr. 21	2012	598	31	376
Westinghouse, H. Herman, New York, N. Y., assignor to Westinghouse Machine Company, Pittsburg, Pa. Steam-engine. (Reissue.)	10,603	May 26	2698	715	31	1042
Westinghouse, H. Herman, New York, N. Y., assignor to Westinghouse Machine Company, Pittsburg, Pa. Steam-engine	322,334	July 14	1235	324	32	235
Westinghouse, H. Herman, New York, N. Y., assignor to Westinghouse Machine Company, Pittsburg, Pa. Reducing clearance in steam-cylinders	327,630	Oct. 6	175	43	33	31
Westinghouse, H. Herman, New York, N. Y., assignor to Westinghouse Machine Company, Pittsburg, Pa. Steam-engine valve	332,689	Dec. 15	2609	551	33	1385
Westinghouse, H. Herman, New York, N. Y., and W. A. Bole, assignors to Westinghouse Machine Company, Pittsburg, Pa. Steam-engine valve	329,347	Oct. 27	2500	644	33	476
Westinghouse, H. Herman, New York, N. Y., and H. H. Garrett, assignors to Westinghouse Machine Company, Pittsburg, Pa. Separator for mingled oil and water	329,791	Nov. 3	429	124	33	596
Westinghouse, John, Schenectady, N. Y. Spark-arrester	327,366	Sept. 29	2902	757	32	1571
Westinghouse Machine Company. (See Cronzbaun, Robert, assignor.)						
Westinghouse Machine Company. (See Garrett, Henry H., assignor.)						
Westinghouse Machine Company. (See Westinghouse, H. Herman, assignor.)						
Westinghouse Machine Company. (See Westinghouse, H. Herman, assignor.) (Reissue.)						
Westinghouse Machine Company. (See Westinghouse and Bole, assignors.)						
Westinghouse Machine Company. (See Westinghouse and Garrett, assignors.)						
Westlake, James E., Albuquerque, N. Mex. Ter. Concentrating-machine	328,627	Oct. 20	1484	387	33	284
Westlake, William, Brooklyn, N. Y. Furnace	331,597	Dec. 1	531	129	33	1091
Westlake, William, Brooklyn, N. Y., assignor to United States Combustion Company, of New York. Feeding fuel	327,210	Sept. 29	2697	701	32	1537
Westlake, William, Brooklyn, N. Y., assignor to United States Combustion Company, of New York. Furnace for boilers	328,991	Oct. 27	1980	515	33	326
Westmeyer, Friedrich, St. Johann-on-the-Saar, Prussia, Germany. Lifting apparatus for railway-rails	316,320	Apr. 21	1844	486	31	347
Weston, Edward, Newark, N. J. Electric-lamp fixture	311,398	Jan. 27	1667	455	30	327
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company, New York, N. Y. Manufacture of incandescents	310,761	Jan. 13	770	209	30	159

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	310,762	Jan. 13	771	209	30	152
New York, N. Y. Dynamo-electric machine						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	310,763	Jan. 13	774	210	30	152
New York, N. Y. System of generating and regulating electric currents						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	316,088	Apr. 21	1536	402	31	292
New York, N. Y. Incandescent-lamp holder						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	316,089	Apr. 21	1538	402	31	292
New York, N. Y. Regulator for dynamo-electric machines						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	316,090	Apr. 21	1539	402	31	292
New York, N. Y. System for the transmission of power by electricity						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	316,091	Apr. 21	1543	403	31	293
New York, N. Y. Electro-magnetic motor						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	316,092	Apr. 21	1544	403	31	293
New York, N. Y. Electro-magnetic motor						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	316,093	Apr. 21	1546	403	31	294
New York, N. Y. Electro-magnetic motor						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	316,094	Apr. 21	1548	404	31	294
New York, N. Y. Incandescent lamp						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	316,095	Apr. 21	1549	404	31	294
New York, N. Y. Electric incandescent-lamp bracket						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	316,096	Apr. 21	1550	404	31	294
New York, N. Y. Electrical switch or circuit controller						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	316,097	Apr. 21	1552	404	31	294
New York, N. Y. Switch or circuit breaker for electric circuits						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	316,707	Apr. 28	2390	623	31	453
New York, N. Y. Electric-lighting system						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	316,708	Apr. 28	2391	623	31	453
New York, N. Y. Electric-lighting system						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	316,709	Apr. 28	2393	624	31	453
New York, N. Y. Electric-lighting system						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	320,026	June 16	1449	381	31	1328
New York, N. Y. Socket or holder for incandescent lamps						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	320,027	June 16	1450	381	31	1328
New York, N. Y. Socket or holder for incandescent lamps						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	320,028	June 16	1451	381	31	1328
New York, N. Y. Circuit-breaker						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	320,029	June 16	1452	382	31	1329
New York, N. Y. Incandescent-lamp holder						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	320,030	June 16	1453	382	31	1329
New York, N. Y. Holder for incandescent lamps						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	327,908	Oct. 6	510	{ 134 135 }	33	92
New York, N. Y. Electrical measuring-instrument						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	330,449	Nov. 17	1883	368	33	784
New York, N. Y. Rheostat						
Weston, Edward, Newark, N. J., assignor to United States Electric Lighting Company.	330,450	Nov. 17	1384	369	33	784
New York, N. Y. Electrical meter						
Weston, Emile R., Bangor, Me. Smoke-consuming stove and furnace	330,451	Nov. 17	1386	369	33	784
Weston, Frank A., and H. C. Frost, assignors of one-third to H. C. Albertson, South Pueblo, Colo. Sash-fastener	319,870	June 9	1223	323	31	1280
Weston, George A., and H. R. Prockter, 6 Park Street, Croydon, county of Surrey, England. Ticket-case	311,049	Jan. 20	1102	{ 317 318 }	30	229
Weston, Irving A. (See Smith and Weston.)	314,090	Mar. 17	1433	374	30	1061
Weston, James W., New York, N. Y. Refrigerator-barrel and other like receptacles	317,902	May 12	1306	349	31	771
Weston, James W., New York, N. Y. Hoop or band for barrels and other like receptacles	320,732	June 23	2431	645	31	1516
Weston, Morton L. D., Des Moines, Iowa. Apparatus for ventilating mines	315,578	Apr. 14	847	{ 222 223 }	31	157
Weston, Thomas A., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Hoisting-machine	320,315	June 16	1863	{ 459 490 491 }	31	1401
Weston, Thomas A., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Hoisting mechanism	320,316	June 16	1867	{ 490 491 }	21	1402
Weston, Thomas A., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Hoisting mechanism	320,317	June 16	1869	491	31	1402
Weston, Thomas A., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Hoisting mechanism	320,318	June 16	1871	{ 491 492 }	31	1402
Weston & Wells Manufacturing Company. (See Wells, Joseph L., assignor.)						
Weston, William S., Chicago, Ill. Electric-lamp hanger	326,363	Sept. 15	1540	399	32	1314
Weston, William S., Chicago, Ill. Electric-lamp hanger	326,364	Sept. 15	1541	400	32	1314
Westphal, Otto, assignor to Schäffer & Budenberg, Buckau-Magdeburg, Prussia, Germany. Injector	312,591	Feb. 17	1554	{ 422 423 }	30	653
Westphal, Otto, assignor to Schäffer & Budenberg, Buckau, Germany. Injector and injector-nozzle	322,768	July 21	1825	482	32	348
Wetherbee, E. G., et al. (See Valentine, William P., assignor.)						
Wetherbee, Edwin D., Waltham, Mass. Apparatus for recessing watch-dials	325,296	Sept. 1	93	26	32	1032
Wethered, Edwin R., Woolwich, county of Kent, England. Latch and lock combined	316,098	Apr. 21	1553	405	31	295
Wetherell, George F., and R. B. Jones, assignors of one-third to R. Richards, Chicago, Ill. Presser-roll	318,064	May 19	1527	410	31	820
Wetherell, James M., assignor of one-half to A. B. Stockham, Chicago, Ill. Combined safety-pin and buckle	323,759	Aug. 4	492	139	32	615
Wetherill, Cotesworth P., Woodville, Miss. Balanced slide-valve	319,649	June 9	924	244	31	1227
Wetherill, William H., Philadelphia, Pa. Manufacture of white lead	324,200	Aug. 11	1004		32	734
Wetherill, William H., Philadelphia, Pa. Window-seat box	330,631	Nov. 17	1628	437	33	632
Wetmore, Jean A., Brooklyn, N. Y. Electrical printing-press feeder	322,335	July 14	1237	{ 324 325 }	32	235
Wetmore, Jerome W., Erie, Pa. Chimney-cap	325,032	Aug. 25	3221	609	32	958
Wetmore, Jerome W., Erie, Pa. Vehicle-spring	325,033	Aug. 25	2222	610	32	958
Wetmore, Jerome W., Erie, Pa. Fire-escape	323,182	Dec. 29	2794	731	33	1523
Wetmore, Joseph C., assignor to A. F. Smith, Lynn, Mass. Heel-trimming machine	316,710	Apr. 28	2395	624	31	454
Wetmore, Joseph C., assignor to A. F. Smith, Lynn, Mass. Trimming-machine	323,760	Aug. 4	492	139	32	615
Wetmore, Paul L., Boston, Mass. Car-coupling	330,947	Nov. 24	2021	546	33	913
Wetmore, Sylvester J., Watson, N. Y. Railway-gate	311,277	Jan. 27	1502	{ 410 411 }	30	297

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Wetmore, William F. (See Birdsall, Bratt, and Wetmore.)						
Wetmore, William F. and L. H. Bratt, assignors of one-third to J. B. Birdsall, South Bend, Ind. Water-tube for boilers.	333,043	Dec. 29	2506	680	33	1429
Wetmore, William H., Raleigh, N. C. Horse-collar.	339,111	Oct. 27	2157	559	33	413
Wetmore, William H., assignor of two-thirds to T. A. Jones and A. W. Knox, Raleigh, N. C. Desk.	317,253	May 5	442	110	31	603
Wettstein, Hermann, Harvard, Ill. Portable fire-escape.	312,415	Feb. 17	1308	361	30	607
Wettstein, Herman, Harvard, Ill. Fire-escape.	312,683	Feb. 24	1669	459	30	683
Wettstein, Herman, Harvard, Ill. Fire-escape.	312,684	Feb. 24	1671	460	30	684
Weyerbusch, Emil, Elberfeld, Germany. Machine for shaping buttons.	311,700	Feb. 3	313	85, 86	30	408
Weyman, Charles T. (See Weyman, George W., assignor.)						
Weyman, George W., assignor of one-half to C. T. Weyman, Philadelphia, Pa. Press for the manufacture of insulators and other glass articles.	310,484	Jan. 6	407	112	30	79
Weyman, George W., Clayton, N. J., assignor of one-half to C. T. Weyman, Philadelphia, Pa. Jar-fastening.	326,818	Sept. 22	2168	565	32	1434
Weyman, George W., Clayton, N. J., assignor of one-half to C. T. Weyman, Philadelphia, Pa. Jar-fastening.	329,792	Nov. 3	490	194	33	598
Wesel, Julius, Rendsitz, Germany. Machine for making artificial lithographic stones.	332,852	Dec. 22	2390	614	33	1432
Wesel & Naumann. (See Von Pittler, Wilhelm, assignor.)						
Wharmby, Thomas W., Cleveland, Ohio. Stamp-moistener.	327,211	Sept. 29	2699	701	32	1537
Whartenby, Frank L., Hopewell, Ohio. Vehicle-spring.	312,778	Feb. 24	1799	495	30	707
Wharton & Co., William, Jr. (See Samuel, Edward, assignor.)						
Wharton & Co., William, Jr. (See Wharton and Samuel, assignors.)						
Wharton Railroad Switch Company. (See Johnston, Edward H., assignor.)						
Wharton Railroad Switch Company. (See Roberts, Alfred R., assignor.)						
Wharton, William, Jr., assignor to W. Wharton, Jr., & Co., (limited), Philadelphia, Pa. Cable railway.	315,983	Apr. 14	1398	362	31	259
Wharton, William, Jr., assignor to W. Wharton, Jr., & Co., (limited), Philadelphia, Pa. Cable railway.	315,986	Apr. 14	1400	363	31	260
Wharton, William, Jr., assignor to W. Wharton, Jr., & Co., (limited), Philadelphia, Pa. Cable railway.	315,987	Apr. 14	1401	363	31	260
Wharton, William, Jr., and E. Samuel, assignors to W. Wharton, Jr., & Co., (limited), Philadelphia, Pa. Cable railway.	315,984	Apr. 14	1399	363	31	259
Wharton, William, Jr., and E. Samuel, assignors to W. Wharton, Jr., & Co., (limited), Philadelphia, Pa. Cable railway.	315,985	Apr. 14	1400	363	31	259
Wheat, John J., Indianapolis, Ind. Feed device for sowing-machines.	322,102	Oct. 13	851	921	33	161
Wheat, John J., Indianapolis, Ind. Presser-foot device for sowing-machines.	322,163	Oct. 13	852	922	33	161
Wheat, Van Buren, Orleans, N. Y. Wood-steaming apparatus.	310,926	Jan. 20	965	268	30	195
Wheatley, Harry D., Centerville, Ohio. Music-leaf turner.	318,529	May 26	2143	577	31	944
Wheatley, Thomas S., Mahanoy City, Pa. Shoe-maker's rasping-tool.	320,733	June 23	2432	645	31	1516
Wheaton, Abram W., Newark, N. J. Cartridge-loading machine.	332,767	Dec. 22	2213	584	33	1413
Wheeler, A. (See Blaker, Achilles, assignor.)						
Wheeler, Abel, et al. (See Young, Harlan P., assignor.)						
Wheeler, Benjamin, Jr., Zanesville, Ohio. Fence-post.	322,244	Oct. 13	976	254	33	185
Wheeler, Charles M., and E. B. Hinde, San Francisco, Cal. Automatic advertising device.	313,143	Mar. 3	138	34	30	309
Wheeler, Clarence L. (See Wheeler, Eltonzo S., assignor.)						
Wheeler, Clark W., assignor to J. Krasin, Kenosha, Wis. Buckle.	313,142	Mar. 3	137	33	30	309
Wheeler & Co., F. A. (See Alber, John, assignor.)						
Wheeler, Cyrenna, Jr., Auburn, N. Y. Grain-binder for harvesters.	321,467	July 7	81	91, 92	32	17
Wheeler, Cyrenna, Jr., Auburn, N. Y. Steam boiler.	322,226	July 14	1108	288	32	211
Wheeler, David C., et al. (See Wheeler, Dwight, assignor.)						
Wheeler, Dwight, assignor of two-thirds to J. A. Crofut and D. C. Wheeler, Bridgeport, Conn. Scissors and shears.	318,530	May 26	2145	578	31	944
Wheeler, Edgar L., Marlborough, Mass. Imitation-stitch machine.	325,297	Sept. 1	94	96, 97	32	1033
Wheeler, Eltonzo S., Saugatuck, assignor of one-half to C. L. Wheeler, Sharon, Conn. Barbed fence.	321,964	June 30	3124	832	31	1650
Wheeler, Frederick M., Montclair, N. J., assignor to Lighthall Manufacturing Company, New York, N. Y. Surface-condenser.	372,468	Dec. 15	1775	464	33	1328
Wheeler, Frederick W. (See Coryell and Wheeler.)						
Wheeler, George M., assignor of one-half to J. Adams, Wausau, Wis. Friction-gearing.	310,867	Jan. 13	898	243	30	175
Wheeler, George N. (See Lynn and Wheeler.)						
Wheeler, Henry H., assignor of one-half to T. J. Kintz and J. F. Leahy, Tiffin, Ohio. Store-grate.	329,668	Nov. 3	600	154	33	617
Wheeler, Henry W., assignor to Tatum & Bowen, San Francisco, Cal. Saw.	322,164	Oct. 13	853	222	33	161
Wheeler, J. S., et al. (See Randolph, Arthelow M., assignor.)						
Wheeler, Joseph F., Wyocena, Wis. Tooth-holder for cultivators.	323,004	July 28	2170	576	32	418
Wheeler, Julian M., et al. (See Benedict, Jacob, assignor.)						
Wheeler, Lambert, assignor to L. Wheeler, Allentown, N. Y. Rope drill-jar.	311,157	Jan. 20	1317	342	30	256
Wheeler, Lewis E., East Hampton, Mass. Cutting appliance for lathes.	330,948	Nov. 24	2023	547	33	913
Wheeler, Lizzie. (See Wheeler, Lambert, assignor.)						
Wheeler, Madden & Clemson Manufacturing Company. (See Loebis, Albert H., assignor.)						
Wheeler, Marshal, Creston, Iowa. Breach-loading fire-arm.	329,793	Nov. 3	491	124	33	598
Wheeler, Moses B. W., Westport, Conn. Saw-set.	323,005	July 28	2171	576	32	418
Wheeler, Nathaniel, and W. F. Dial, Bridgeport, Conn. Sewing-machine.	322,165	Oct. 13	854	223	33	162
Wheeler, Nathaniel, and W. F. Dial, assignors to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Feeding mechanism for sewing-machines.	331,174	Nov. 24	2322	629	33	909
Wheeler, Orrin A., Springfield, Mo. Coaster.	332,575	Dec. 15	1942	508	33	1356
Wheeler, Ransom S., Red Oak, Mo. Car-coupling.	312,310	Feb. 17	1169	320	30	581
Wheeler, Schuyler S., Newburg, N. Y. Electric elevator.	324,621	Aug. 18	1660	459	32	647
Wheeler, Schuyler S., assignor to C. A. Cheever, trustee, New York, N. Y. Electric fire-engine system.	312,939	Feb. 24	2004	548	30	743
Wheeler, Schuyler S., Newburg, assignor to C. A. Cheever, trustee, New York, N. Y. Electric elevator. (Reissue.)	10,585	Apr. 21	2009	528	31	375
Wheeler, Seth, Albany, N. Y. Copying-machine.	314,091	Mar. 17	1435	375	30	1061
Wheeler, Seth, Albany, N. Y. Wrapping and toilet paper.	333,183	Dec. 29	2794	732	33	1522
Wheeler, William, Jr., Stonington, Conn. Chromatic-printing machine.	333,493	Dec. 29	2810	840	33	1526
Wheeler, William A., Indianapolis, Ind. Edge-curling machine.	316,711	Apr. 28	2397	624	31	454
Wheeler, William A., Indianapolis, Ind. Pipe-crimping machine.	321,165	June 30	3092	796	31	1627
Wheeler, William C., assignor of one-half to O. C. Wright, Lockport, N. Y. Machine for separating dust from air.	324,440	Aug. 18	1413	385	32	801

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Wheeler, William H., Mohawk Village, Ohio. Harness-saddle	310,238	Jan. 6	96	26	30	20
Wheeler & Wilson Manufacturing Company. (See Bayley, Charles H., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Campbell, Andrew C., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Dimond, George H., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Ostrom, Freeland W., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Tuttle, Ira J., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Wheeler and Dial, assignors.)						
Wheelock, Charles B. (See Stetson, Amos H., assignor.)						
Wheelock, Ezekiel F., Corning, N. Y. Filter	324,622	Aug. 18	1666	460	32	847
Wheelock, George J. (See Beauregard and Wheelock.)						
Wheelock, Jerome, Worcester, Mass. Valve-gear for steam-engines	296,819	Sept. 22	2169	565	32	1434
Wheelock, Jerome, Worcester, Mass. Valve for steam-engines	326,820	Sept. 22	2171	566	32	1435
Whippley, Richard Y. (See Kimball, Charles W., assignor.)						
Wherry, John, Jr., Putnam, Ill. Cultivator	311,931	Feb. 10	629	173	30	474
Wherry, John, Jr., Putnam, Ill. Pulverising-harrow	329,604	Nov. 3	251	65	33	553
Whinery, James L., Union, Iowa. Dentistry	328,442	Oct. 13	1227	318	33	232
Whipple, Effinger E., Eaton Rapids, Mich. Harness	311,399	Jan. 27	1668	455	30	327
Whipple, Effinger E., Eaton Rapids, Mich. Tongueless cultivator	312,050	Feb. 10	795	217	30	504
Whipple, Effinger E., Eaton Rapids, Mich. Cultivator	314,767	Mar. 31	2353	623	30	1266
Whipple, Effinger E., Eaton Rapids, Mich. Cultivator	319,871	June 9	1925	323	31	1220
Whipple, Effinger E., Eaton Rapids, Mich. Harrow	324,057	Aug. 11	877	242	32	693
Whipple, Frank. (See Loveland, Calvin, assignor.)						
Whipple, Henry J. P., assignor to V. C. Whipple, Cleveland, Ohio. Knob attachment	321,927	July 7	710	185	32	129
Whipple, Henry J. P., assignor to V. C. Whipple, Cleveland, Ohio. Attaching knobs to spindles	321,928	July 7	712	185	32	129
Whipple, Jane, Westfield, N. Y. Stool for tables, counters, &c.	317,254	May 5	444	110	31	604
Whipple, John A., Boston, Mass. Map-exhibitor	314,405	Mar. 24	1847	499	30	1147
Whipple, Leander E., Hartford, Conn. Fastening for railway-rails	327,743	Oct. 6	317	81	33	55
Whipple, Leander E., Hartford, Conn. Railway-tie	327,843	Oct. 6	438	114	33	77
Whipple, Samuel A., et al. (See Benham and Watrous, assignors.)						
Whipple, Silas S., et al. (See Benham and Watrous, assignors.)						
Whipple, Victoria C. (See Whipple, Henry J. P., assignor.)						
Whisler, Cyrus, assignor of one-half to J. F. Hodgen, Brighton, Iowa. Washing-machine	321,329	June 30	3201	853	31	1665
Whisemore, John H., Mansfield, Ohio. Stove-bracket	323,320	July 28	2702	719	32	514
Whitaker Brothers. (See Morley, Samuel, assignor.)						
Whitaker, Clarence E., Hyde Park, Mass. Soap-molding machine	313,564	Mar. 10	718	188	30	920
Whitaker, Edwin V., Gloversville, N. Y. Umbrella	322,227	July 14	1110	269	32	211
Whitaker, Edwin V., Gloversville, N. Y. Roller-skate	330,652	Nov. 17	1629	438	33	833
Whitaker, Robinson. (See Proctor, Whitaker, and Reed.)						
Whitaker, Thomas, Horseforth, county of York, England. Pile-driving machine	313,637	Mar. 10	812	212	30	937
Whitbeck, Andrew. (See Bigelow and Whitbeck.)						
Whitbeck, George V. H., Phelps, N. Y. Wheelbarrow grass seed sower	313,565	Mar. 10	721	189	30	921
Whitcomb, James A., Washington, D. C. Making sweet-potato flour	310,927	Jan. 20	986	33	30	196
Whitcomb, James A., Washington, D. C. Necktie-fastener	315,097	Apr. 7	150	36	31	28
Whitcomb, Marcellus L., Muskegon, Mich. Window-screen	312,685	Feb. 24	1672	461	30	684
Whitcomb, Marcellus L., Coldwater, Mich. Window-screen	322,975	Oct. 13	977	254	33	185
Whitcomb, Theophilus T. (See Sanders and Whitcomb.)						
Whitcomb, Wilson W., Batavia, N. Y. Device for representing the motions of the earth and moon	327,001	Oct. 6	176	43	33	32
White, Addison H., et al. (See Hull, Richard L., assignor.)						
White, Addison J. (See Albach and White.)						
White, Albert M., Waterbury, assignor to Pope Manufacturing Company, Hartford, Conn. Velociped-wheel	310,857	Jan. 13	886	240	30	173
White, Albert M., Waterbury, assignor to Pope Manufacturing Company, Hartford, Conn. Wheel for velocipedes	317,956	May 19	1376	370	31	785
White, Asa F., Candor, N. Y., assignor of one-half to C. O. and E. M. White. Chair	331,352	Dec. 1	133	33	33	1021
White, B. Clark, assignor to S. S. Chisholm, Chicago, Ill. Machine for drawing rods or bars	323,761	Aug. 4	493	139	32	615
White, B. Clark, assignor to S. S. Chisholm, Chicago, Ill. Machine for drawing rods and shafting	323,762	Aug. 4	495	139	32	616
White, B. Clark, assignor to S. S. Chisholm, Chicago, Ill. Machine for drawing rods	323,763	Aug. 4	499	140	32	616
White, Barrett. (See Lemon, Albert, assignor.)						
White, Charles, Osceola, Neb. Detachable handle and safety-lock attachment for valves, &c.	318,672	May 26	2335	623	31	977
White, Charles, assignor of one-half to M. Holzman, Baltimore, Md. Embroidery-cutting machine	320,031	June 16	1454	322	31	1329
White, Charles H., New York, N. Y. Car-door latch	325,371	Sept. 1	195	50	32	1051
White, Charles O., et al. (See White, Asa F., assignor.)						
White, Charles P., Taunton, Mass. Clutching device	317,056	May 5	163	41	31	552
White Dental Manufacturing Company, S. S. (See Brewer and How, assignors.)						
White Dental Manufacturing Company, S. S. (See Browne, Arthur W., assignor.)						
White Dental Manufacturing Company, S. S. (See Burk, William E., assignor.)						
White Dental Manufacturing Company, S. S. (See How, Woodbury S., assignor.)						
White Dental Manufacturing Company, S. S. (See Johnston and Browne, assignors.)						
White Dental Manufacturing Company, S. S. (See Logan, Marshall L., assignor.)						
White Dental Manufacturing Company, S. S. (See Starr, Eli T., assignor.)						
White Dental Manufacturing Company, S. S. (See Starr and Teal, assignors.)						
White, Edward F., assignor of one-third to W. A. Hall, Weymouth, Mass. Telescopic rotary sole-trimming cutter	324,345	Aug. 11	1285	348	32	769
White, Edward M., et al. (See White, Asa F., assignor.)						
White, Edwin A. (See Hurley, James A., assignor.)						
White, Eliza S., assignor of one-half to G. C. Fuller, Cleveland, Ohio. Die-grinding machine	326,001	Sept. 8	1035	263	32	1113
White, Frank L., Gainesville, Tex. Churn	331,598	Dec. 1	533	130	33	1091
White, George, assignor of one-half to C. Eaton, New York, N. Y. Sewing-machine attachment for unwinding thread from spools	331,855	Dec. 8	906	234	33	1162
White, Henry J., assignor to Empire Winger Company, Auburn, N. Y. Journal and bushing	312,065	May 19	1529	410	31	820
White, Howard, Philadelphia, Pa. Pencil-sharpener	318,404	May 19	1977	532	31	904
White, Howard W. (See Edson, Julius T., assignor.)						
White, J. Claude, Swatara, Pa. Ditching and tile-laying machine	332,126	Dec. 8	1310	340	33	1240

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White, James, 19 Swan Street Borough, W. Ross, 60 Trinity Square Borough, J. T. Creasy, 28 Warner Street Borough, county of Surrey, and W. H. Gritton, Jr., 7 Fenchurch Street, county of Middlesex, England. Combination-rudder for vessels	316,099	Apr. 21	1555	406	31	295
White, James H., assignor to Manhattan Brass Company, New York, N. Y. Reflector for lamps	322,142	July 14	1010	262	32	192
White, James H., New York, and T. Hipwell, Astoria, assignors to Manhattan Brass Company, New York, N. Y. Lamp	318,150	May 19	1638	437	31	841
White, Jasper, Penn. Mich. Harvester	328,266	Oct. 13	978	255	33	185
White, John B., Buffalo, N. Y. Making horseshoes	330,534	Nov. 17	1489	398	33	804
White, John C., Swatara, Pa. Traction-engine	317,903	May 19	1306	350	31	772
White, John E., assignor to Peters' Leather Dash Company, Columbus, Ohio. Sewing-machine	319,766	June 9	1070	284 285	31	1254
White, John F., assignor to C. W. Taylor, Gallatin, Tenn. Hand-motor for sewing-machines	317,057	May 5	164	41	31	553
White, John H., Washington, D. C., assignor to National Typographic Company, of West Virginia. Machine for justifying matrix-strips	311,400	Jan. 27	1669	455 456	30	398
White, Jonathan F., et al. (See Glenn, Joseph M., assignor.)						
White, Joseph, Port Huron, Mich. Magazine-boiler	323,764	Aug. 4	501	141	32	616
White, Joseph J., New Lisbon, N. J., assignor to Union Hoist Company, (limited.) Philadelphia, Pa. Hoist	317,904	May 12	1309	350	31	772
White, Leonard A., Taunton, Mass. Draft slide or register	319,367	June 2	526	143	31	1148
White, Le Roy S., Waterbury, Conn. Apparatus for turning on, lighting, and shutting off gas by electricity	320,105	June 16	1555	411	31	1347
White, Le Roy S., Waterbury, Conn. Apparatus for turning on, lighting, and turning off gas by electricity	320,106	June 16	1559	412	31	1347
White, Le Roy S., Waterbury, Conn. Electric lighting device for gas-burners	320,606	June 23	2275	601	31	1486
White, Le Roy S., assignor to Electric Appliance Company, Waterbury, Conn. Electric gas-lighting apparatus	324,058	Aug. 11	879	242	32	693
White, Le Roy S., assignor to Electrical Appliance Manufacturing Company, Waterbury, Conn. Turning on and shutting off gas by electricity	331,221	Nov. 24	2394	648	33	961
White, Lewis B., Norfolk, Va. Plow	313,394	Mar. 3	497	139 130	30	868
White, Lewis B., assignor to American Trades Agency Company, New York, N. Y. Automatic block-signal for railways	330,180	Nov. 10	1021	267	33	708
White, Lewis B., New York, N. Y., assignor to L. Abbott, Jersey City, N. J. Cable-grip	333,874	Dec. 29	3054	796	33	1570
White, Louis B., New York, N. Y., assignor to W. L. Potter and E. H. Hills, Hartford, Conn. Apparatus for burning hydrocarbons	329,985	Nov. 10	759	194	33	654
White, Lorin E., et al. (See Mercer, Andrew J., assignor.)						
White, Luther N. (See Harrison and White.)						
White, Luther N., Columbia City, assignor of one-half to W. W. Worthington and R. C. Bell, Fort Wayne, Ind. Nut-lock	326,075	Sept. 8	1142	290	32	1233
White, Luther N., Columbia City, assignor of one-half to W. W. Worthington and R. C. Bell, Fort Wayne, Ind. Nut-lock	326,076	Sept. 8	1143	291	32	1233
White, Luther T., Cortland, N. Y. Dental-tool holder	321,265	June 30	3125	832	31	1650
White, Maurice W., assignor of one-half to G. W. Ross, Boston, Mass. Violin-bridge	320,276	Nov. 10	1138	302	33	730
White, Maurice W., assignor, by mesne assignments, to himself and G. W. Ross, West Somerville, Mass. Violin	323,765	Aug. 4	502	141	32	617
White, Nelson S. (See Brown, Frank M., assignor.)						
White, Nelson S., Canton, Mass. Protecting incandescent electric lights	314,208	Mar. 17	1580	418	30	1087
White, Otis C., Hopkinton, Mass. Dentist's chair	316,100	Apr. 21	1556	405 406	31	295
White, Otis C., Worcester, Mass. Lathe tool-rest	315,686	Apr. 14	981	257	31	184
White, Otis C., Worcester, Mass. Photographic posing-support	316,101	Apr. 21	1560	406	31	296
White, Otis C., Worcester, Mass. Child's photographer's chair	320,184	Sept. 15	1291	334	32	1267
White, Otis C., Worcester, Mass. Dentist's or photographer's chair	326,185	Sept. 15	1291	334	32	1267
White, Peter, St. Louis, Mo. Hydrant	312,686	Feb. 24	1673	461	30	684
White, Peter, St. Louis, Mo. Water-closet valve	312,687	Feb. 24	1673	461	30	684
White, Peter, St. Louis, Mo. Stop-box	325,298	Sept. 1	96	27	32	1033
White, Robert J., West New Brighton, N. Y. Polishing paper	332,928	Dec. 8	1164		33	1214
White, Ross, Brattleborough, Vt. Paper-holder	325,139	Aug. 25	2357	649	32	984
White Sewing Machine Company. (See Clyne, James B., assignor.)						
White Sewing Machine Company. (See Porter, D'Arcy, assignor.)						
White Sewing Machine Company. (See Whitney, Rud W., assignor.)						
White, Thomas H., St. Louis, Mo. Fire-proof composite roof	313,071	Mar. 17	1292	335	30	1032
White, Thomas R., Philadelphia, Pa. Gas-generating apparatus	327,844	Oct. 6	439	115	33	77
White, Welcome, Baltimore, Md. Butter-package	330,653	Nov. 17	1630	438	33	833
White, William. (See Daly, John, assignor.)						
White, William, Bingley, county of York, England. Belting or driving band	319,366	June 2	525	143	31	1148
White, William, assignor to W. Stein, London, England. Feed-water regulator for steam-boilers	315,098	Apr. 7	151	36	31	29
White, William O., assignor to American Rock and Track Lifter Company, Lake Village, N. H. Stump-extractor and stone-lifter	332,368	Dec. 15	1647	432	33	1306
White, William P., Cincinnati, Ohio. Fire and burglar proof safe	333,184	Dec. 29	2795	732	33	1523
Whiteford, David, Chicago, Ill. Water-closet	318,842	May 26	2569	683 684	31	1017
Whiteford, David, Chicago, Ill. Stop and waste cock	319,157	June 2	272	72	31	1097
Whitehall, Curtis, Newtown, Ind. Cultivator	330,761	Nov. 17	1779	479	33	561
Whitehead & Atherton Machine Company. (See Wilson, James H., assignor.)						
Whitehead, Edward W., St. Joseph, Mo. Truck for moving houses	327,632	Oct. 6	177	43	33	33
Whitehead, John H., Leeds, county of York, England. Roller-stand for combing-machines	314,406	Mar. 24	1848	492	30	1148
Whitehead, John H., Leeds, county of York, England. Machinery for combing wool, cotton, &c.	315,197	Apr. 7	306	73	31	54
Whitehill, Robert. (See Dixon, Charles A., assignor.)						
Whitehill, Robert, Milwaukee, Wis. Sewing-machine	326,221	Sept. 22	2174	566 567	32	1435
Whitehill, Robert, Milwaukee, Wis. Sewing-machine	326,222	Sept. 22	2176	567	32	1435
Whitehurst, Robert J., Clear Water Harbor, Fla. Hoe	313,072	Mar. 17	1284	335	30	1032
Whitehurst, Robert W., assignor of two-thirds to A. and M. L. Wrenn, Norfolk, Va. Plow	310,872	June 9	1229	324	31	1240
Whiteley, Faasler & Kelly. (See Whiteley, William N., assignor.)						
Whiteley, William N., Springfield, Ohio. Sheaf-carrier	311,550	Feb. 3	129	37	30	373
Whiteley, William N., Springfield, Ohio. Belt-gearing	320,734	June 23	2433	645	31	1516
Whiteley, William N., Springfield, Ohio. Bundle-carrier for harvesters	322,228	July 14	1112	289	32	211
Whiteley, William N., Springfield, Ohio. Cast wheel	328,736	Oct. 20	1636	423	33	311

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Whiteley, William N., Springfield, Ohio. Bearing for harvester-frames.	330,181	Nov. 10	1023	267	33	708
Whiteley, William N., assignor to Whiteley, Fassler & Kelly, Springfield, Ohio. Harvester and binder.	323,613	Aug. 4	301	86, 87	32	578
Whiteley, William N., and W. Bayley, Springfield, Ohio. Harvester.	322,229	July 14	1113	289	32	212
Whiteley, William N., and W. Bayley, Springfield, Ohio. Harvester.	330,654	Nov. 17	1631	438	33	633
Whiteman, Abram V., New York, N. Y. Fruit-jar.	330,107	June 16	1561	412	31	1348
Whiteman, Israel R. (See Pitts and Whiteman.)						
Whitfield, William A. (See Boone and Whitfield.)						
Whitin, G. Marston, assignor to Whitin Machine Works, Whitinsville, Mass. Spinning and twisting machine.	318,405	May 10	1978	532	31	904
Whitin Machine Works. (See Whitin, G. Marston, assignor.)						
Whiting, David, Ashland, Ohio. Clover-huller.	316,210	Apr. 21	1698	446	31	322
Whiting, J. Hill, Detroit, Mich. Foundry-plant.	314,768	Mar. 31	2357	623 } 624	30	1266
Whiting, J. Hill, Detroit, Mich. Reversible friction-gearing.	315,687	Apr. 14	983	257	31	185
Whiting, J. Hill, Detroit, Mich. Cable or belt tightener.	317,692	May 12	1027	266	31	718
Whiting, J. Hill, Detroit, Mich. Device for operating foundry-ladles.	319,158	June 2	275	72	31	1068
Whiting, J. Hill, Detroit, Mich. Cupola-furnace.	324,623	Aug. 18	1667	400	32	847
Whiting, James M., Providence, assignor to himself and G. W. Paine, Johnson, R. I. Shears.	330,813	Nov. 17	1842	496	33	873
Whiting, Silles H., Bridgeport, Conn. Device for holding sleeves of garments.	316,712	Apr. 28	2399	625	31	454
Whiting, Silles H., assignor to Slayton & Whiting, Bridgeport, Conn. Clasp for garment-supporters.	327,367	Sept. 29	2903	757	32	1571
Whiting, William M., Elizabeth, N. J. Cord-alarm for grain-binders.	317,005	May 12	1310	350	31	772
Whitlock, Charles, and A. C. Knapp, Chicago, Ill. Telephone-switch.	326,610	Sept. 22	1852	485	32	1378
Whitlock, James G., Richmond, Va. Store-door handle.	312,940	Feb. 8	2008	548	30	743
Whitlock, Sturges, Birmingham, Conn. Paper-cutting machine.	325,082	Sept. 24	1027	264	32	1213
Whitlock, Sturges, Birmingham, Conn. (Searing for printing-presses.)	332,576	Dec. 15	1943	509	31	1356
Whitlock, Sturges, Birmingham, Conn. Sliding bearer for printing-machines.	332,577	Dec. 15	1944	509	31	1357
Whitman & Barnes Manufacturing Company. (See Lamb, Levi L., assignor.)						
Whitman & Barnes Manufacturing Company. (See Smith and Weston, assignors.)						
Whitman, Francis S., et al. (See Cumling, Alfred A., assignor.)						
Whitman, Henry L., St. Louis, Mo. Harrow.	321,071	June 30	2886	767	31	1606
Whitman, Irvin A., assignor of one-half to E. K. Leonard, Lyons, N. Y. Car-coupling.	322,512	July 21	1497	393	32	288
Whitmore, James W., assignor of one-fourth to James W. Whitmore, Jr., Richmond, Va. Hinge.	333,375	Dec. 29	3055	707	33	1570
Whitmore, John, Salem, Mass. Car-coupling.	329,794	Nov. 3	492	124	33	598
Whitney, Amos. (See Hinckley, Henry D., assignor.)						
Whitney, Amos. (See Johnson, Moses C., assignor.)						
Whitney, Amos, assignor to Pratt & Whitney Company, Hartford, Conn. Lathe-head.	319,650	June 9	924	244 } 245	31	1227
Whitney, Amos, assignor to Pratt & Whitney Company, Hartford, Conn. Reamer-relief-ing machine.	322,006	July 28	2172	576 } 577	32	418
Whitney, Arthur E., Winchester, Mass. Machine for unhairing, working, and scouring hides.	330,655	Nov. 17	1632	430	33	634
Whitney Brothers. (See Ferrari, Andrew, assignor.)						
Whitney Brothers. (See Synnot, Thomas W., assignor.)						
Whitney, Catherine, Lawrence, Kans. Mangle.	329,270	Oct. 27	2354	609	33	450
Whitney, Charles E., Brooklyn, N. Y. Door-opener.	325,399	Sept. 1	96	27	32	1033
Whitney, Edgar H., Winchendon, Mass. Ratchet-brace.	319,159	June 2	276	72	31	1096
Whitney, Edwin R., assignor to S. C. Forsyth and W. E. Drew, Manchester, N. H. Dynamo-electric machine.	322,230	July 14	1113	290	32	212
Whitney, Eli, New Haven, Conn. Portable car-window guard.	326,003	Sept. 8	1039	264	32	1214
Whitney, Emma V. (See Nichols and Whitney.)						
Whitney, Frank H., Friendship, Me. Bench-stop.	329,795	Nov. 3	493	125	33	599
Whitney, Henry M., Oswego, N. Y. Shovel.	320,197	June 16	1672	445	31	1368
Whitney, Herbert W., et al. (See Lane, Frank W., assignor.)						
Whitney, Howard C., Albany, N. Y. Calendar blotting-pad.	329,348	Oct. 27	2501	614	33	477
Whitney, James A., Dobbs Ferry, N. Y. Making plumbers' traps.	326,611	Sept. 22	1854	486	32	1378
Whitney, James A., Dobbs Ferry, N. Y. Plumber's trap.	326,612	Sept. 22	1857	486 } 487	32	1379
Whitney, James S., Lowell, Mass. Machine-gun.	311,551	Feb. 3	130	37, 38	30	373
Whitney, John R., Radnor, Pa. Railway-car window.	321,206	June 30	3126	832	31	1650
Whitney, John R., Radnor, Pa. Hanging window.	313,466	Dec. 1	305	82	33	1052
Whitney, Marcus L., Hawley, Pa. Car-coupling.	316,925	Apr. 28	2704	704	31	510
Whitney, Orison C., Cleveland, Ohio. Organ-coupler.	329,796	Nov. 3	494	125	33	599
Whitney, Pardon A., Chagrin Falls, Ohio. Ratchet-drill.	329,966	Nov. 10	761	194	33	654
Whitney, Ruel W., New York, N. Y. Automatic tension for sewing-machines.	314,635	Mar. 31	2163	574	30	1230
Whitney, Ruel W., assignor to White Sewing Machine Company, Cleveland, Ohio. Feed mechanism for sewing-machines.	317,255	May 5	445	111	31	604
Whitney, Ruel W., assignor to White Sewing Machine Company, Cleveland, Ohio. Hand sewing-machine.	326,365	Sept. 15	1542	400	32	1314
Whitney, William A., Stillman Valley, Ill. Colter and jointer attachment for plows.	331,175	Nov. 24	2323	630	33	969
Whitton, Lucius E., West Stafford, Conn. Lathe-tool.	316,713	Apr. 28	2400	625	31	455
Whittaker, Charles, Chicago, Ill. Ball-valve.	330,613	Sept. 22	1850	487	32	1379
Whittemore, John R., Chicopee Falls, Mass. Harrow.	315,579	Apr. 14	848	223	31	157
Whittemore, John R., Chicopee, Mass. Raising harrow and cultivator.	323,614	Aug. 4	303	87	32	578
Whittemore, M. Maturin, R. H. Arnold, and E. S. Staples, Norwich, Conn. Steam-generator.	326,186	Sept. 15	1293	335	32	1268
Whitten, Charles H. (See Freeland and Whitten.)						
Whitten, Horace C., Plymouth, Mass. Spider.	323,694	Aug. 4	661	186	32	647
Whittenburg, Jonathan D., Mansfield, Mo. Flood-fence.	326,931	Sept. 22	2326	600	32	1463
Whittle, John W., Syracuse, N. Y. Spring-vehicle.	326,823	Sept. 22	2176	567	32	1436
Whittier, Abel C., Boston, Mass. Dredge.	322,231	July 14	1115	290	32	212
Whittier, Cullen K., and J. H. Donlon, San Francisco, Cal. Hair-clipping machine.	330,535	Nov. 17	1490	398	33	801
Whittingham, Charles, and J. and R. A. Jones, assignors to Home Gas and Oil Stove Company, Detroit, Mich. Vapor-burner.	321,872	July 7	642	166	32	117
Whittingham, John. (See Greig, Shaw, and Whittingham.)						
Whittingham, Joseph. (See Whittingham and Jones.)						
Whittingham, Joseph F., assignor to H. McConnell, Cleveland, Ohio. Box-fastener.	324,301	Aug. 11	1085	295	32	734
Whittlesey, Charles E., assignor of one-half to H. T. Peck, New Haven, Conn. Lock.	320,521	June 23	2163	571	31	1404
Whittlesey, Charles E., assignor of one-half to S. A. Stevens, New Haven, Conn. Oscillating chair.	330,702	Nov. 17	1780	479	33	861

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Whittlesey, Samuel F., New Haven, assignor of one-half to Baldwin & Lamkin, Milford, Conn. Boot or shoe	328,267	Oct. 13	979	255	33	186
Whyler, Edward M., Monroeville, Ohio. Tool-standard fastening	328,737	Oct. 20	1627	424	33	311
Whyman, Horatio O., Norfolk, Nebr. Shutter	315,580	Apr. 14	849	223	31	158
Whyte, Warren M. (See Overman, Bernard, assignor.)						
Whyte, Warren M. (See Overman and O'Connor, assignors.)						
Wiard, Edward, Litchfield, Minn. Sugar-cane cultivator	327,633	Oct. 6	179	44	33	32
Wiard, Harry, and W. R. Bullock, Syracuse, N. Y. Side-hill plow	329,607	Nov. 3	253	65	33	553
Wible, William H., Philadelphia, Pa. Shade-holder	321,926	July 7	709	185	32	129
Wicker, Albert G., Cincinnati, Ohio. Roller for skates	321,873	July 7	643	167	32	117
Wickersham, Charles H., Pottstown, Pa. Paper keg or cask	324,906	Aug. 25	2058	563	32	928
Wickersham, J. T. (See Vannice, Peter T., assignor.)						
Wicks, James H., New York, N. Y. Stock-car	322,336	July 14	1239	325	32	236
Wicks, James H., New York, N. Y. Stock-car	324,624	Aug. 18	1666	460	32	848
Wickham, Owen B., Cleveland, Ohio. Ironing clothes	329,797	Nov. 3	495	125	33	599
Wickizer, George C., Evergreen, Pa. Motor	328,630	Oct. 20	1733	451	33	332
Wicks, Edgar N., Meriden, Ill. Washing-machine	320,608	Nov. 3	254	66	33	553
Wicks, Loren J., Paterson, N. J. Churn	332,982	Dec. 22	2498	700	33	1466
Wicks, Richard V., Brooklyn, N. Y. Chamfering-plane	310,349	Jan. 6	257	70	30	49
Wicks, Samuel, Cleveland, Ohio. Combined faucet and pump	319,535	June 9	768	205	31	1190
Wicoff, Ely. (See Turner, Winfield S., assignor.)						
Widemire, Thomas J., Grampian Hills, Pa. Thrashing-machine	322,332	July 14	1116	290	32	213
Widmayer, Charles A. (See Wunderlick, Gennaro, assignor.)						
Widmer, Frank. (See Beisinger, Friedrich, assignor.)						
Widmer, Frank, Newark, N. J. Pressure-regulator	323,093	July 28	2299	607	32	441
Widmer, Frank, assignor of one-half to A. Albright, Newark, N. J. Beer-cooling apparatus	325,892	Sept. 8	894	225	32	1187
Widmer, Frank, assignor of one-half to A. Albright, Newark, N. J. Apparatus for pre-ferriug and pressing beer	328,554	Oct. 20	1372	357	33	265
Widney, Charles W., assignor to himself and O. W. Hutchinson, Wymore, Nebr. Switch-stand	319,368	June 2	526	143	31	1148
Wiederer, Peter, New York, N. Y. Picture-support	328,738	Oct. 20	1627	424	33	311
Wiederer, Peter, New York, N. Y. Hand-mirror	328,739	Oct. 20	1628	424	33	311
Wiederer, Peter, New York, N. Y. Hand-mirror	328,740	Oct. 20	1630	424	33	311
Wiederer, Peter, New York, N. Y. Hand-mirror	328,741	Oct. 20	1630	425	33	312
Wiederer, Peter, New York, N. Y. Folding mirror	328,742	Oct. 20	1632	425	33	312
Wiegell, Saxo W. A., New York, N. Y. Bucket or receptacle for malt liquors	315,198	Apr. 7	307	73	31	55
Wible, Robert, W. Lorey, Jr., and C. Feuchter, Ironton, Ohio. Running-gear for vehicles	322,029	Dec. 8	1165	304	33	1214
Wiener, Magnus. (See Brock and Wiener.)						
Wiener, Meyer H., Buffalo, N. Y. Scale beam and poise	312,779	Feb. 24	1800	495	30	707
Wier, Marshall A., Upper Norwood, county of Surrey, England. Mechanical musical instrument	329,419	Oct. 27	2612	674	33	496
Wier, Marshall A., Upper Norwood, county of Surrey, England. Mechanical musical instrument	329,420	Oct. 27	2613	675	33	496
Wier, Marshall A., Upper Norwood, county of Surrey, England. Corkscrew	330,337	Nov. 10	1253	333	33	753
Wiese, Peter, et al. (See Kock, Christian H., assignor.)						
Wiese, William. (See Karnatz and Wiese.)						
Wiesebroek, Frederick W., New York, N. Y., assignor of two-thirds to S. C. Shaeffer, Lancaster, Ohio. Apparatus for treating the refuse from breweries	312,592	Feb. 17	1555	423 424	30	653
Wiesebroek, Frederick W., New York, N. Y., assignor of two-thirds to S. C. Shaeffer, Lancaster, Ohio. Preserving brewers' grain	312,593	Feb. 17	1557	424	30	654
Wiggers & Froelick. (See Schott, William, assignor.)						
Wiggin, Frank L. (See Wiggin, William H. and F. L.)						
Wiggin, John E., Stoncham, assignor of two-thirds to G. W. Brown and D. H. Burt, Boston, Mass. Take-up mechanism for sewing machines	326,533	Sept. 15	1743	455	32	1353
Wiggin, William H. and F. L., Lowell, Mass. Turn-out for store-service tracks	310,765	Jan. 13	779	210	30	153
Wiggin, William H. and F. L., assignors to W. S. Lamsen, Lowell, Mass. Switch for cash-railways	310,764	Jan. 13	777	210	30	152
Wiggins, George W. (See Monroe and Wiggins.)						
Wiggins, William H., Brooklyn, N. Y. Substitute for billiard-cue chalk	329,349	Oct. 27	2502		33	477
Wiggs, Henry J. (See Miller, Isaac J., assignor.)						
Wight, Albion P., Jr. (See Spear and Wight.)						
Wight, C., et al. (See Thies, John B., assignor.)						
Wight, Eugene B., Chicago, Ill. File-case	324,625	Aug. 18	1660	461 460	32	848
Wight, H. C., et al. (See Thies, John B., assignor.)						
Wight, Peter B., Hyde Park, Ill. Fire-proof ceiling	322,873	July 21	1974	523	32	375
Wight & Son. (See Thies, John B., assignor.)						
Wightman, Merle J., Hartford, Conn. Electric switch or circuit controller	330,949	Nov. 24	2025	547	33	914
Wigle, Frederick B., Mansfield, Ohio. Vapor-burner	318,151	May 19	1639	428	31	841
Wiglesworth, William. (See Mauring and Gibbons, assignors.)						
Wilbaux, Amédée. (See Vessier and Wilbaux.)						
Wilber, Elijah S., Chicago, Ill. Heater	326,004	Sept. 8	1040	264	32	1214
Wilber, Isaac L., Taunton, Mass. Loom-shuttle	315,100	Apr. 7	154	37	31	29
Wilber, James L., Farmington, Mich. Stock-rack	328,668	Oct. 20	1778	464	33	340
Wilber, John D., and A. B. Smith, Towanda, Pa. Stapling-machine	330,950	Nov. 24	2026	548	33	914
Wilber, William H., assignor of one-half to P. P. Seeber, Buffalo, N. Y. Paint	311,401	Jan. 27	1673		30	398
Wilbur, Andrew J., Boston, Mass. Rotary cutter	324,970	Aug. 25	2138	584	32	943
Wilbur, Charles H. (See Wilbur, Greenleaf A., assignor.)						
Wilbur, Du Bois & Wilbur. (See Bristol, David N., assignor.)						
Wilbur, George E. (See Walker and Wilbur.)						
Wilbur, Greenleaf A., assignor to himself and C. H. Wilbur, Skowhegan, Me. Pencil case and sharpener	326,697	Sept. 22	1970	517	32	1400
Wilbur, Krum & Wilbur. (See Bristol, David N., assignor.)						
Wilcox, Albert, Clarence, Iowa. Harrow	324,626	Aug. 18	1671	461	32	848
Wilcox, Albert, Cedar Rapids, Iowa. Harrow	331,353	Dec. 1	134	33	33	1022
Wilcox, Albert and E. B., Maple Rapids, Mich. Device for hanging wall-paper	323,901	Aug. 11	787	219	32	678
Wilcox, Crittenden & Co. (See Read, James, assignor.)						
Wilcox, Daniel, Springwater, N. Y. Adjustable chair	318,673	May 26	2236	624	31	977
Wilcox, Daniel L., assignor to D. L. Wilcox Manufacturing Company, Pawtucket, R. I. Toy spring gun	326,366	Sept. 15	1543	400	32	1314
Wilcox, Edward M., and W. J. Hopkins, Whitewater, Wis. Sweep-coupling for grinding-mills	313,144	Mar. 3	140	34	30	802

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Wilcox, Eliza B. (See Wilcox, Albert and E. B.)						
Wilcox, George E., Cedar Rapids, Iowa. Harrow-tooth and holder	328,992	Oct. 27	1983	515	33	383
Wilcox, George S., et al. (See Donovan, George L., assignor.)						
Wilcox, Harlow M., Milwaukee, assignor to C. S. Martin and M. J. Wilcox, Wausau, Wis. Saw-mill dog.	314,279	Mar. 24	1679	{ 447 448 }	30	1115
Wilcox, John F. (See Witherow, Oliver, Wilcox, and Tener.)						
Wilcox, John F., Pittsburg, Pa. Converter.	314,551	Mar. 24	2044	545	30	1181
Wilcox, John F., assignor to J. P. Witherow and H. W. Oliver, Jr., Pittsburg, Pa. Operating converters.	315,562	Apr. 14	851	224	31	158
Wilcox, John F., assignor to H. W. Oliver, Jr., and J. P. Witherow, Pittsburg, Pa. Blasting appliance for converters.	317,478	May 5	746	189	31	658
Wilcox, Joshua L., Flint, Mich. Apple-parer.	321,667	July 7	341	90, 91	32	65
Wilcox Manufacturing Company, D. L. (See Wilcox, Daniel L., assignor.)						
Wilcox, Marilla J., et al. (See Wilcox, Harlow M., assignor.)						
Wilcox, Reuben F., Augusta, Kans. Fence.	325,140	Aug. 25	2358	649	32	984
Wilcox, Reuben F., Augusta, Kans. Adding-machine.	326,824	Sept. 22	2177	568	32	1436
Wilcox, Robert, St. Kilda, Victoria. Steamship-propeller and machinery therefor.	315,199	Apr. 7	307	74, 75	31	55
Wilcox, Stephen, Brooklyn, N. Y. Friction-gear.	312,780	Feb. 24	1202	496	30	707
Wilcox, Stephen, Brooklyn, N. Y. Pressure-gage.	323,992	Aug. 11	788	219	32	679
Wilcox, Stephen, Brooklyn, N. Y. Air and gas engine.	332,312	Dec. 15	1561	{ 410 411 }	33	1291
Wilcox, Stephen, Brooklyn, N. Y. Gas-engine.	332,313	Dec. 15	1566	411	33	1292
Wilcox, Stephen, Brooklyn, N. Y. Gas-engine.	332,314	Dec. 15	1568	412	33	1293
Wilcox, Stephen, Brooklyn, N. Y. Gas-engine.	332,315	Dec. 15	1569	412	33	1293
Wilcox, Vincent M., assignor to E. & H. T. Anthony & Co., New York, N. Y. Photographic-plate box.	330,122	Nov. 10	1024	267	33	708
Wilcox, Warren, Lake Crystal, Minn. Clasp for spectacle-holders.	328,369	Oct. 13	1119	289	33	212
Wilcox, William B., Chicago, Ill. Chain-pump bucket.	322,874	July 21	1975	523	32	375
Wilcox, William C., San Francisco, Cal. Horse-bitching device.	331,016	Nov. 24	2105	570	33	929
Wilcox, William E., assignor of one-half to F. H. Kelly, Cleveland, Ohio. Car-axle box.	315,581	Apr. 14	850	224	31	158
Wilcox, William H. (See Anderson and Wilcox.)						
Wilcox, William R., assignor of one-half to E. R. Dunbar, Mansfield, Pa. Car-brake.	328,098	Oct. 13	773	202	33	146
Wild, William E., assignor of one-half to G. E. Ames, San Francisco, Cal. Ore-crushing machine.	315,583	Apr. 14	853	225	31	158
Wild, William E., assignor of one-half to G. E. Ames, San Francisco, Cal. Ore-crushing machine.	331,017	Nov. 24	2106	570	33	929
Wilde, William A., Chicago, Ill. Automatic car-brake.	323,766	Aug. 4	503	141	32	617
Wilde, William A., Chicago, Ill. Automatic car-brake.	328,870	Oct. 20	1780	{ 464 465 }	33	340
Wilde, William L., Brooklyn, N. Y. Body-protector.	317,693	May 12	1027	266	31	718
Wilder, Charles H. (See Eastman, Rufus M., assignor.)						
Wilder, Flavius M. (See Rice, Sword, and Wilder.)						
Wilder, Henry C., Ashby, Mass., assignor of one-half to J. G. Willard, New York, N. Y. Safety-valve.	322,024	July 14	925	{ 239 240 }	32	177
Wilder, Jerome B., Lynn, Mass. Vice.	324,907	Aug. 25	2059	563	32	928
Wilder, Jones W., Parkville, N. Y. Sealing milk-bottles.	311,932	Feb. 10	631	174	30	474
Wilder, Moses G., Philadelphia, Pa. Pressure-regulator.	322,768	Dec. 22	2215	584	33	1414
Wilder, William H. (See Fletcher and Wilder.)						
Wilder, William J., Ansonia, Conn. Coating metal.	313,700	Mar. 10	896	233	30	954
Wilder, William M., Franklin, Ga. Cotton-seed planter.	315,099	Apr. 7	153	37	31	29
Wildermuth, Hilarius E. (See Simpson, Hatcher, and Wildermuth.)						
Wildern, Adna, Vienna, Ontario, Canada. Rotary engine.	323,993	Aug. 11	789	{ 219 220 }	32	679
Willey, George, and A. Rollins, Brooklyn, N. Y. Plug-tobacco machine.	313,903	Mar. 17	1184	306	30	1014
Wildhagen, Karl, Treseburg, Brunswick, Germany. Roofing composition of tar, cement, &c.	315,584	Apr. 14	854		31	158
Wiler, Lucien M., Philadelphia, Pa. Stair-rod securer.	330,656	Nov. 17	1634	439	33	834
Wiles, Thomas S., Albany, N. Y. Drier.	314,500	Mar. 24	1982	529	30	1171
Wiley, Charles W. (See Wiley, Daniel D., G. L., and C. W.)						
Wiley, Daniel D., G. L., and C. W., Lanark, Ill. Mechanism for converting motion.	315,364	Apr. 7	521	133	31	94
Wiley, Daniel D., G. L., and C. W., Lanark, Ill. Windmill.	323,615	Aug. 4	304	87, 88	32	579
Wiley, Edwin, Brooklyn, N. Y. Pen and pencil holder.	327,044	Sept. 29	2473	646	32	1496
Wiley, George L. (See Wiley, Daniel D., G. L., and C. W.)						
Wiley, Henry T., Boston, Pa. Sack filler and weigher.	321,468	July 7	85	23	32	17
Wiley & Russell Manufacturing Company. (See MacCarthy, Dennis E., assignor.)						
Wiley, Thomas W. (See Wood and Wiley.)						
Wilhelm, Albert, Pleasant Hill, Tex. Cultivator.	330,607	June 23	2276	602	31	1486
Wilhelm, Bartholomew, assignor of one-half to J. H. Kamps, Appleton, Wis. Cork-screw.	310,766	Jan. 13	721	211	30	153
Wilhelm, John, Jr., Wooster, Ohio. Milk-cooling can.	321,774	July 7	497	131	32	93
Wilhelmi, Valentin, Paterson, N. J. Washing-machine.	326,257	Sept. 15	1395	363	32	1226
Wilhelms, Sophus. (See Andersen and Wilhelms.)						
Wilbott, Franz, New York, N. Y. Heating and cooling coil and producing the same.	311,552	Feb. 3	132	38	30	373
Wilbott, Franz, New York, N. Y. Vulcanized soft rubber and making same.	321,410	June 30	3314		31	1685
Wilke, Alvin. (See Payne, William H., assignor.)						
Wilke, Alvin, Camden, N. J. Toy.	325,141	Aug. 25	2358	650	32	984
Wilkerson, Basil M., Baltimore, Md. Liquid-gas apparatus.	328,370	Oct. 13	1190	{ 229 230 }	33	212
Wilkerson, Samuel G., Ottawa, Kans. Gate.	317,052	May 5	165	42	31	553
Wilkes, Joseph C., Buchtel, Ohio. Pencil-holder.	320,828	June 23	2547	675	31	1538
Wilkes, Peter, Trenton, N. J. Collapsible core-barrel.	330,657	Nov. 17	1635	439	33	834
Wilkeson, William. (See Howell, William H., assignor.)						
Wilkeson, William, Youngstown, N. Y. Pulp-grinder.	333,369	Dec. 29	3048	796	33	1589
Wilkie, James, Detroit, Mich. Roller-skate.	327,845	Oct. 6	440	115	33	77
Wilkin, George, Dundee, N. Y. Crate.	332,553	Dec. 22	2321	615	33	1432
Wilkin, John H., Loveville, Pa. Car-coupling.	332,316	Dec. 15	1570	412	33	1293
Wilkin, Theodore S., Milwaukee, Wis. Saw-mill head-block.	311,701	Feb. 3	316	87	30	408
Wilkin, Theodore S., Milwaukee, Wis. Saw-mill dog.	313,395	Mar. 3	500	130	30	869
Wilkin, Theodore S., Milwaukee, Wis. Saw-mill set-works.	313,396	Mar. 3	502	{ 130 131 112 }	30	869
Wilkin, Theodore S., Milwaukee, Wis. Saw-mill set-works.	317,256	May 5	446	{ 111 112 }	31	604
Wilkins, Alexander G., assignor to Wilkins Shoe Button Fastener Company, Meadville, Pa. Apparatus for attaching buttons.	314,092	Mar. 17	1436	375	30	1061

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Wilkins, Alexander G., Meadville, Pa., and J. B. Miller, Kent, Ohio, assignors to Wilkins Shoe Button Fastener Company, Meadville, Pa. Apparatus for attaching buttons to fabrics.	312,668	Feb. 24	1674	{ 461 462 }	{ 30	664
Wilkins, Alexander G., Meadville, Pa., and J. B. Miller, assignors to Railway Speed Recorder Company, Kent, Ohio. Implement for securing buttons to fabrics.	321,411	June 30	3315	884	31	1685
Wilkins, Alexander G., Meadville, Pa., and M. J. Bartlett, Chardon, assignors to Railway Speed Recorder Company, Kent, Ohio. Button-feeder.	330,951	Nov. 24	2029	{ 548 549 }	{ 33	914
Wilkins, E. Ward, et al. (See Mingle, George W., assignor.)						
Wilkins, Edward S., Stowe, Vt. Sap-bucket and cover.	313,397	Mar. 3	504	131	30	870
Wilkins, Frank R., Lawrence, assignor to Wilkins Locomotive Car Coupling Company, Boston, Mass. Car-coupling.	313,269	Mar. 3	340	84	30	838
Wilkins, Henry E., et al. (See Partridge, Andrew, assignor.)						
Wilkins, John H., et al. (See Brettell, Edward W., assignor.)						
Wilkins Locomotive Car Coupling Company. (See Wilkins, Frank R., assignor.)						
Wilkins Shoe Button Fastener Company. (See Wilkins, Alexander G., assignor.)						
Wilkins Shoe Button Fastener Company. (See Wilkins and Miller, assignors.)						
Wilkins, Timothy, Sigourney, Iowa. Type-writing machine.	330,183	Nov. 10	1025	268	33	708
Wilkinson, Algernon L., Huntsville, Ala. Automatic switch-signal.	312,230	Feb. 10	1061	292	30	552
Wilkinson, Algernon L., Huntsville, assignor of one-eighth to J. L. Risson, Madison County, Ala. Sash-holder.	314,296	Mar. 31	2532	670	30	1297
Wilkinson, Charles E., Matteawan, N. Y., assignor to Willimantic Linen Company, Willimantic, Conn. Unwinding attachment for spools and bobbins.	311,625	Feb. 3	220	02	30	390
Wilkinson, George W., Kensington, county of Middlesex, England. Soldering-iron.	312,941	Feb. 24	9008	549	30	743
Wilkinson, George W., West Rutland, Vt. Car-axle.	319,369	June 2	528	144	31	1148
Wilkinson, John M., Iuka, Miss. Boot-strap.	326,187	Sept. 15	1294	335	32	1268
Wilkinson, Joseph H., Boston, Mass. Differential oil-cup.	315,101	Apr. 7	155	37	31	29
Wilkinson, Lewis, deceased, Chicago, Ill.; F. M. Steel administrator. Screw-cutting machine.	322,875	July 21	1977	{ 523 524 }	{ 32	375
Wilkinson, Lewis, deceased, Chicago, Ill.; F. M. Steele administrator. Turn-buckle.	328,443	Oct. 13	1238	318	33	232
Wilkinson, Samuel L., Yazoo City, Miss. Cotton-press.	326,698	Sept. 23	1971	518	32	1400
Wilkinson, William J., Philadelphia, Pa. Adjustable reflector-holder for stationary lamps and other lights.	324,627	Aug. 18	1672	461	32	848
Wilks, Stephen, Chicago, Ill. Safety device for range-doors.	324,441	Aug. 18	1414	386	32	801
Will & Finck. (See Finck, Julius, assignor.)						
Will, Frederick. (See Becker, Henry L., assignor.)						
Will, Herman, Chicago, Ill. Bottle-filling machine.	314,280	Mar. 24	1681	448	30	1115
Will, Herman, Chicago, Ill. Bottling-machine.	331,354	Dec. 1	135	33	33	1022
Will, John, Audubon, Iowa. Grain-meter.	319,160	June 2	277	73	31	1098
Williams, Peter W., Thames Ditton, county of Surrey, England. Electric governor for controlling steam-engines.	329,112	Oct. 27	2158	550	33	413
Williams, Peter W., Thames Ditton, county of Surrey, England. Steam-engine.	329,987	Nov. 10	763	195	33	654
Willard, Alexander T., Chelsea, Mass. High-pressure indicator.	318,152	May 19	1640	438	31	841
Willard, George, Hyde Park, Ill. Oar or paddle for propelling boats.	327,909	Oct. 6	519	135	33	93
Willard, Henry F. (See Butterfield, David N., assignor.)						
Willard, Joel G. (See Wilder, Henry C., assignor.)						
Willard, Thomas, assignor of two-thirds to J. A. Hartz and E. P. Holland, Woodville, Pa. Rock and coal drill.	323,007	July 28	2173	577	32	418
Willbanks, David A., assignor of one-half to T. C. Launius, High Shoals, Ga. Tire-shrinking machine.	316,511	Apr. 28	2117	557	31	402
Willcox, Edwin B., et al. (See Angell, Thomas, assignor.)						
Willcox & Gibbs Sewing Machine Company. (See Mitchell and Plympton, assignors.)						
Willcox, James M., Philadelphia, Pa. Manufacture of Portland cement.	333,370	Dec. 29	3050	.....	33	1569
Willer, Henry E., Milwaukee, Wis. Window-blind slat.	312,051	Feb. 10	800	218	30	504
Willer, Henry E., Milwaukee, Wis. Window-frame.	312,052	Feb. 10	800	218	30	504
Willer, Henry E., Milwaukee, Wis. Window-shutter.	312,053	Feb. 10	801	219	30	505
Willer, Henry E., Milwaukee, Wis. Window-frame.	315,365	Apr. 7	522	133	31	95
Willer, Henry E., Milwaukee, Wis. Blind-retaining way-strip for windows.	333,185	Dec. 29	2798	739	33	1594
Willershausen, Siegfried, New York, N. Y. Spring attachment to platform rocking-chairs.	315,870	Apr. 14	1237	328	31	231
Willet, Michael. (See Orbits and Willet.)						
Willet, Nathaniel S., Newark, N. J. Manufacture of brick.	315,900	Apr. 7	311	75, 76	31	56
Willet, Ora S., and J. W. Fitzgerald, Bronson, Kans. Cheek-rower.	317,257	May 5	448	112	31	605
Willetta, William R., and H. Ball, Stamford, Conn. Rock-drill.	314,897	Mar. 31	2533	670	30	1297
Willford, Joseph L., Minneapolis, Minn. Roller-mill.	315,201	Apr. 7	313	76, 77	31	57
Willford, Joseph L., Minneapolis, Minn. Mechanical movement.	315,202	Apr. 7	316	77	31	57
Willford, Joseph L., Minneapolis, Minn. Centrifugal double scalper.	328,268	Oct. 13	960	255	33	186
Willford, Joseph L., Minneapolis, Minn. Middlings-purifier.	328,269	Oct. 13	962	256	33	188
Willhoite, Henry L., Colfax, Ill. Combined hay rake and loader.	315,366	Apr. 7	523	134	31	95
Williams, Albert J., Hannibal, N. Y. Grain-reducing apparatus.	318,585	May 26	2227	{ 595 596 }	{ 31	956
Williams, Alfred, assignor to Williams, White & Co., Moline, Ill. Drop-hammer lifter.	310,909	Jan. 20	1054	266	30	208
Williams, Alfred G. (See Havell and Williams.)						
Williams, Arvilla. (See Prall and Williams.)						
Williams, Bradley S., et al. (See Peer, Perry A., assignor.)						
Williams, Charles F., Crisman, Ind. Railway-signal.	325,465	Sept. 1	334	81	32	1079
Williams, Charles H., Cleveland, Ohio. Wash-board protector.	327,634	Oct. 6	182	45	33	33
Williams, Charles H., Cleveland, Ohio. Die for making turn-buckles.	332,127	Dec. 8	1310	{ 340 341 }	{ 33	1240
Williams, Charles H., Worcester, assignor to T. C. Bates, North Brookfield, Mass. Corset-fastening.	312,054	Feb. 10	802	219	30	505
Williams, Charles H., Worcester, assignor to T. C. Bates, North Brookfield, Mass. Corset-fastening.	312,055	Feb. 10	803	219	30	505
Williams, Charles H., Worcester, assignor to T. C. Bates, North Brookfield, Mass. Corset-fastening.	312,238	Feb. 10	1060	292	30	532
Williams, Charles H., Worcester, assignor to T. C. Bates, North Brookfield, Mass. Corset-fastening.	316,958	Apr. 28	2606	680	31	493
Williams, Charles W. (See Ives and Williams.)						
Williams, Charles W., Cave City, Ky., E. B. Ives, New York, N. Y., and G. S. Barnum, Atlanta, Ga. Telegraphic apparatus.	313,462	Mar. 3	591	152	30	887
Williams, Chester L., New York, N. Y. Clothes-line frame.	317,258	May 5	449	112	31	605
Williams, Christopher, Adrian, Mich. Steam-boiler.	313,566	Mar. 10	722	193	30	921
Williams, Clark F., Reed City, Mich. Railway-signal box.	321,558	July 7	209	55	32	41
Williams, David H., Bellaire, Ohio. Steel-ladle-drying furnace.	313,701	Mar. 10	897	233	30	954
Williams, David T., Cincinnati, Ohio. Thrill-coupling.	333,186	Dec. 29	2799	733	33	1524
Williams, Edward. (See Williams, Horace and E.)						
Williams, Edward, Brooklyn, N. Y. Safety-pin.	322,143	July 14	1011	263	32	192

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Williams, Edward, Lynn, Mass. Milk and water cooler	322,144	July 14	1011	963	32	192
Williams, Edward H., Dayton, Ohio. Automatic fire-extinguisher	322,908	Oct. 20	1839	490	33	351
Williams, Edward P., Jr., Brooklyn, N. Y. Combined match-box and cigar-cutter	327,369	Sept. 29	2905	758	32	1572
Williams, Elmer L., Buchanan, Mich. Combined hay tedder and rake	317,602	May 12	908	213	31	696
Williams, Elmer L., Buchanan, Mich. Clover-huller	323,475	Aug. 4	117	34	32	543
Williams, Eugenia A., administratrix. (See Williams, George W.)						
Williams, Fitzallan B., assignor of one-fourth to W. A. Williams, Chicago, Ill. Folding bed	316,714	Apr. 28	2401	626	31	455
Williams, Francis H., Syracuse, N. Y. Sabot for ordnance	315,102	Apr. 7	157	38	31	29
Williams, Francis H., Syracuse, N. Y. Chain-shell	325,300	Sept. 1	97	27	32	1033
Williams, Francis M., Dow, Iowa. Grain elevator and cleaner	318,674	May 26	2337	624	31	978
Williams, Francis O., A. and J. C. Mattice, Cohocton, N. Y. Potato-digger	324,202	Aug. 11	1096	296	32	734
Williams, Frank, Newark, N. J. Screen-plate or pulp-strainer for paper-making machines	313,037	Feb. 24	2143	583	30	767
Williams, Frederic T., Jamestown, N. Y. Seed-planter	312,629	Feb. 24	1676	462	30	685
Williams, George E. (See Pertz, John W., assignor.)						
Williams, George M., Newark, Del. Corn-planter	312,594	Feb. 17	1559	425	30	654
Williams, George R., Ithaca, N. Y. Thermos'at	311,933	Feb. 10	632	174	30	474
Williams, George W. (See Long, George S., assignor.)						
Williams, George W., assignor of one-half to E. A. Williams, Des Moines, Iowa, administratrix. Gate-hinge	320,198	June 16	1673	445	31	1368
Williams, George W., and J. Hook, Rockdale, Tex. Corn and cotton planter	325,716	Sept. 2	676	170	32	1146
Williams, Gurdon H., Greensburg, Ohio. End-gate for wagons	314,407	Mar. 24	1848	493	30	1148
Williams, Gurdon H., assignor of one-half to A. A. Raymond, Greensburg, Ohio. Device for cutting and screw-threading wagon-axles	317,624	May 12	1028	267	31	718
Williams, Gwilyn M., Wilkes-Barre, Pa. Alarm	324,166	Oct. 13	259	223	33	102
Williams, Homer L., Lind Grove, La. Blotter	324,628	Aug. 18	1673	462	32	249
Williams, Horace, et al. (See Kayser, Adolf, assignor.)						
Williams, Horace and E., Chicago, Ill. Folding bed	326,367	Sept. 15	1544	400	32	1315
Williams, Horatio N., Providence, R. I. Electric gas lighting apparatus	322,233	July 14	1117	291	32	213
Williams, Isaac C., Auburn, V. Va. Fire-place	315,367	Apr. 7	524	134	31	95
Williams, J. Newton, Stapleton, N. Y. Journal-bearing	315,103	Apr. 7	158	38	31	29
Williams, Jacob, and J. Reynolds, Dublin, Ind. Fence-making machine	323,241	Aug. 4	589	166	32	634
Williams, James, Laytonville, Md. Feathering paddle-wheel	310,350	Jan. 6	250	71	30	49
Williams, James, Richmond, Ind. Roller-skate	320,108	June 16	1563	412	31	1348
Williams, James M., et al. (See Smith, John A., assignor.)						
Williams, James N., Mobile, Ala. Envelope	331,355	Dec. 1	136	33, 34	33	1022
Williams, James W., Louisville, Ky. Hand washing-rubber	329,350	Oct. 27	2502	644	33	477
Williams, Jesse S., Beaver Dam, Ky. Car-axle box	325,466	Sept. 1	335	81	32	1079
Williams, John. (See Racey, John, assignor.)						
Williams, John C., Ansonville, Wis. Breaching attachment for vehicles	312,416	Feb. 17	1309	361	30	608
Williams, John G., Chicago, Ill., assignor of one-third to L. T. Williams, Otsego, Mich. Car-coupling	326,188	Sept. 15	1295	335	32	1268
Williams, John H., Texarkana, Ark., assignor of one-half to T. W. Palmer, Gonzales, Tex. Locomotive-brake	314,209	Mar. 17	1281	419	30	1087
Williams, John J., Point Pleasant, Mo. Propeller	312,781	Feb. 24	1803	496	30	707
Williams, John L., Shenandoah, Pa. Safety-lamp	321,166	June 30	3004	796	31	1627
Williams, John M., Salem, N. Y. Machine for separating metals and minerals	316,211	Apr. 21	1699	446	31	322
Williams, John M., Pittsburg, Pa. Boiler indicator and alarm	326,069	Sept. 22	1972	518	32	1401
Williams, John N., Stapleton, N. Y. Stop and lock for pawl-and-ratchet mechanism	312,942	Feb. 24	2009	549	30	743
Williams, John N. S. (See Bolles, John H., assignor.)						
Williams, John N. S., San Francisco, Cal. Water-pressure engine	321,559	July 7	210	55	32	42
Williams, John N. S., assignor of two-thirds to J. H. Bolles, San Francisco, Cal. Dredger	331,929	Dec. 8	1018	264	33	1189
Williams, John R., Newark, N. J. Machine for cutting wrappers or binders for cigars and cigarettes	322,029	July 14	852	222	32	163
Williams, John R., Newark, N. J. Machine for cutting wrappers or binders for cigars and cigarettes	322,030	July 14	853	222	32	163
Williams, John R., Newark, N. J. Apparatus for subdividing material in comminuted form	330,076	Nov. 10	892	230	33	621
Williams, John R., Newark, N. J., assignor to W. Eggert, trustee, New York, N. Y. Cigar-wrapper cutter	320,199	June 16	1674	445	31	1368
Williams, John S., Chicago, Ill. Hasp	311,934	Feb. 10	633	174	30	475
Williams, John W., et al. (See Alexander, James H., assignor.)						
Williams, Lemuel G., assignor of one-half to F. G. Lamson, Boston, Mass. Hat-dangling machine	327,212	Sept. 29	2700	702	32	1538
Williams, Lewis, assignor to Cambria Iron Company, Johnstown, Pa. Apparatus for annealing wire	312,417	Feb. 17	1311	362	30	608
Williams, Lewis E., South Deerfield, and F. J. Millea; said Williams assignor to F. J., J. D., and T. D. Millea and W. G. Sherman, Springfield, Mass. Music-leaf turner	331,930	Dec. 8	1020	265	33	1190
Williams, Lewis T. (See Williams, John G., assignor.)						
Williams, Malcolm B. (See Marvel and Williams.)						
Williams, Malcolm B., et al. (See Peer, Perry A., assignor.)						
Williams, Malcolm B., Kalamazoo, Mich. Wind-wheel	326,614	Sept. 22	1860	487	32	1379
Williams Manufacturing Company. (See Bartlett, Roland S., assignor.)						
Williams, Marion W. (See Medley and Williams.)						
Williams, Marion W., Hopkinsville, Ky. Artificial tooth	317,259	May 5	450	113	31	605
Williams, Martin, St. Johnsville, N. Y. Bag-holder	317,906	May 12	1310	350	31	772
Williams, Martin, St. Johnsville, N. Y. Thrashing-machine	317,907	May 12	1311	351	31	772
Williams, Nathan G., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Fruit-drier	323,008	July 28	2176	577	32	419
Williams, Nathan G., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Butter-worker	332,128	Dec. 8	1313	341	33	1241
Williams, Orlando E. (See Poole and Williams.)						
Williams, Orlando E., and L. V. Poole, Windsor, Vt. Hand-beader	319,161	June 2	278	73	31	1098
Williams, Owen L. (See Baruch and Williams.)						
Williams, R. P., and E. B. Morrell, Santa Cruz, Cal. Well-boring drill or bit	321,560	July 7	212	56	32	12
Williams, Richard E., Modesto, Cal. Pipe-wrench	328,167	Oct. 13	260	224	33	163
Williams, Robert. (See Locke and Bowker, assignors.)						
Williams, Robert A., Kilnicheal, Miss. Portable water-bucket	317,059	May 5	166	42	31	553
Williams, Robert A., and J. Bragg, Cleveland, Ohio. Apparatus for extracting paraffine from oils	317,060	May 5	167	43	31	553
Williams, Robert E., Dallas, Tex. Bag-rack	315,688	Apr. 14	984	258	31	125

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Wilmington, William, Toledo, Ohio. Casting car-wheels	313,872	Apr. 14	1238	323	31	237
Willmot, James K., Oconee, Ill. Farm-gate	312,311	Feb. 17	1171	390	30	581
Wilsey, John D. (See Richard, William, assignor.)						
Wilsey, John D. (See Richard and Holcomb, assignors.)						
Wilson, Alexander K., and B. F. Holder, Valdosta, Ga. Running-gear for vehicles	327,371	Sept. 29	2907	759	32	1572
Wilson, Alexander W., assignor of one-half to H. P. Tracy, Elmwood, Ill. Apparatus for bleaching paper-stock	322,665	July 21	1689	448	32	323
Wilson, Allen F., assignor of three-fourths to D. W. Moore and J. B. Wilson, Clayton, N. J. Fruit-jar	319,768	June 9	1075	286	31	1254
Wilson, Arthur N., assignor of one-half to J. H. Smith, Salem, Mass. Filter	314,281	Mar. 24	1682	448	30	1115
Wilson, C. R. & J. C. (See Wilson and Chalfant, assignors.)						
Wilson, Calvin, Caro, Mich. Lathe-chuck	326,005	Sept. 8	1041	264	32	1214
Wilson, Charles. (See Porter, John E., assignor.)						
Wilson, Charles A., Cincinnati, Ohio. Compound steam-pumping engine	313,793	Mar. 10	1020	264 265	30	977
Wilson, Charles F., assignor of one-half to M. M. Bemis, Brooklyn, N. Y. Boiler-feed regulator						
Wilson, Charles H., and J. Stenart, Detroit, Mich. Fusing metallic plate-joints	316,212	Apr. 21	1705	447	31	322
Wilson, Charles M., Whitestown, N. Y. Railway-signal	333,371	Dec. 29	3051	796	33	1569
Wilson, Charles R., assignor of one-half to J. C. Wilson, Detroit, Mich. Gear-iron for vehicles	330,077	Nov. 10	873	231	33	681
Wilson, Charles R., and G. M. Chalfant, assignors to C. R. & J. C. Wilson, Detroit, Mich. Corner-iron for vehicle-bodies	311,094	Jan. 20	1229	337	30	241
Wilson, Charles W., Lynn, Mass. Sole-edge-trimming tool	327,045	Sept. 29	2473	646	32	1496
Wilson, Edgar W., Denver, Colo. Permutation-padlock	314,898	Mar. 31	2535	670	30	1298
Wilson, Eli F., Rochester, N. Y. Mop-cloth	327,046	Sept. 29	2475	646	32	1497
Wilson, Eugene L. (See Wilson, Henry D. and E. L.)	333,372	Dec. 29	3052	796	33	1569
Wilson, Eugene M. (See Keenan and Wilson.)						
Wilson, F. Cortez, Chicago, Ill. Pocket fishing-tackle box	324,443	Aug. 18	1417	387	32	801
Wilson, Farwell A., et al. (See Sturgis, David, assignor.)						
Wilson, Frank, assignor of two-thirds to J. L. and J. E. Wilson, Easton, Pa. Grinding-mill	311,626	Feb. 3	222	63	30	391
Wilson, Frank E., Des Moines, Iowa. Boiler-furnace	317,961	May 5	452	113	31	696
Wilson, G. Reed, Buffalo, and G. E. Watson, Lockport, N. Y. Driving-belt cleaner	317,003	May 12	910	233	31	696
Wilson, George, Jr., Chicago, Ill. Chair	326,368	Sept. 15	1545	401	32	1315
Wilson, George, Jr., Chicago, Ill. Adjustable chair	326,369	Sept. 15	1545	401	32	1315
Wilson, George, assignor to G. Wilson & Sons, Toledo, Ohio. Box-fastener	319,651	June 9	926	245	31	1227
Wilson, George A., Broad Green, near Liverpool, county of Lancaster, England. Inking apparatus for printing-machines	330,278	Nov. 10	1140	303	33	731
Wilson, George H., St. Louis, Mo. Lamp-burner	316,422	Apr. 21	1991	523	31	373
Wilson, George S., U. S. Army. Cartridge packer and carrier	325,372	Sept. 1	107	50	32	1052
Wilson, George W., Murdock, Ill. Cultivator	314,094	Mar. 17	1438	370	30	1061
Wilson, George W., Hartford, Conn. Buckle	319,769	June 9	1076	286	31	1255
Wilson, Henry D. and E. L., Abbeville, S. C. Cotton-planter and guano-distributor	323,915	Aug. 11	792	229	32	679
Wilson, Homer T., Dallas, Tex. Wash-boller	327,124	Sept. 29	2701	702	32	1538
Wilson, Homer T., and B. B. Sanders, Dallas, Tex. Churn	314,501	Mar. 24	1984	530	30	1171
Wilson, Hudson, Bradford, county of York, England. Low-water alarm	326,370	Sept. 15	1546	401	32	1315
Wilson, James D., et al. (See Munzinger, Peter, assignor.)						
Wilson, James E., et al. (See Wilson, Frank, assignor.)						
Wilson, James G., assignor to F. Forbes, New York, N. Y. Blind	326,371	Sept. 15	1547	402	32	1315
Wilson, James H., Lowell, Mass. Drawing-frame, &c.	321,267	June 30	3127	833	31	1650
Wilson, James H., assignor to Whitehead & Atherton Machine Company, Lowell, Mass. Cloth inspecting and trimming machine	325,581	Sept. 1	485	121	32	1108
Wilson, James H. and J. A. Forbes, Dover, Del. Corn and cane harvester	328,010	Oct. 20	1841	480	33	351
Wilson, Jesse F., Terre Haute, Ind. Tree protector	318,586	May 26	2230	596	31	957
Wilson, John, assignor of one-half to J. N. Bassett, Lowell, Mass. Rod-pointing machine	323,616	Aug. 4	306	83	32	579
Wilson, John B., Petersburg, Ill. Stump-extractor	319,767	Jan. 13	781	211	30	153
Wilson, John C. (See Martin and Wilson.)						
Wilson, John C., Boston, Mass. Signal-transmitter	320,032	June 16	1456	383	31	1329
Wilson, John C., Boston, Mass. assignor to Municipal Signal Company, Portsmouth, N. H. Municipal telegraph	313,147	Mar. 3	144	36	30	803
Wilson, John C., Boston, Mass., assignor to Municipal Signal Company, Portsmouth, N. H. Municipal telegraph apparatus	331,356	Dec. 1	137	34	33	1022
Wilson, John C., Sr., assignor to F. T. Luqueer, Jr., and J. C. Wilson, Jr., New York, N. Y. Flexible shaft	322,666	July 21	1691	448	32	324
Wilson, John C., Sr., assignor to F. T. Luqueer, Jr., and J. C. Wilson, Jr., New York, N. Y. Gear-wheel	322,667	July 21	1691	448	32	324
Wilson, John C., Sr., assignor to F. T. Luqueer, Jr., and J. C. Wilson, Jr., New York, N. Y. Machine for clipping horses, &c.	322,668	July 21	1692	449	32	324
Wilson, John G., Cameron, Tex. Gate	325,468	Sept. 1	377	82	32	1079
Wilson, John H., Camden, N. J. Fire-escape	325,142	Aug. 25	2359	650	32	984
Wilson, John L., et al. (See Wilson, Frank, assignor.)						
Wilson, John S., and W. W. Green, Chicago, Ill. Ventilating sewers	322,168	Oct. 13	861	224	33	163
Wilson, John T. (See Mangan and Wilson.)						
Wilson, Joseph. (See Patrick, Robert, Jr., assignor.)						
Wilson, Joseph B., et al. (See Wilson, Allen F., assignor.)						
Wilson, Joseph B., Clayton, N. J. Fruit-jar	312,595	Feb. 17	1560	425	30	654
Wilson, Joseph B., Clayton, N. J. Fruit-jar	312,596	Feb. 17	1561	425	30	655
Wilson, Joseph C. (See Wilson, Charles R., assignor.)						
Wilson, Joseph W., Brookville, Kans. Feeder for roller-mills	314,552	Mar. 24	2046	545	30	1181
Wilson, Joseph W., Brookville, Kans. Bran-duster	323,247	July 28	2507	665	32	450
Wilson, Lee H., Chicago, Ill. Scarf-anchor	333,187	Dec. 29	2799	733	33	1524
Wilson, M. J., et al. (See Valentine, William P., assignor.)						
Wilson, Martin M., Honey Grove, Tex. Automatic trip-gear for power-presses	331,665	Dec. 1	633	156	33	1109
Wilson, Merrick F., Chicago, assignor of one-half to C. R. Steele and V. C. Price, Waukegan, Ill. Machine for cutting paper tubes	310,629	Jan. 13	601	165	30	120
Wilson, Nelse, Hutto, Tex. Sash-fastener	313,638	Mar. 10	814	213	30	938
Wilson, Nelse, Hutto, Tex. Curtain-holder	333,045	Dec. 22	2508	680	33	1483
Wilson, Oliver, and J. Palmer, assignors to J. M. Yardley and O. Wilson, Philadelphia, Pa. Stop-motion mechanism for knitting-machines	316,423	Apr. 21	1992	523	31	373
Wilson, Oliver B., et al. (See Giffard, George W., assignor.)						
Wilson, Peter M., New York, N. Y. Elevator-hatch	312,782	Feb. 24	1804	496	30	707
Wilson, Richard F., Stockton, Cal. Windmill	324,284	Aug. 21	1199	325	32	753
Wilson, Robert, Greenup, Ky. Millstone-dress	319,652	June 9	927	245	31	1221

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volum. 3.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Page.
Wilson, Robert A., Blue Springs, Nebr. Hog-cholera remedy	396,615	Sept. 22	1861		32	1379
Wilson, Robert M., New York, N. Y. Fire-escape ladder	314,890	Mar. 31	2536	671	30	1392
Wilson, Robert M. E. M. Spear, and M. F. Peirce, Springfield, Mass. Whip-core	327,740	Oct. 6	318	82	33	55
Wilson, Robinson P., Vicksburg, Miss. Car-coupling	311,916	Jan. 27	1409	384	30	370
Wilson & Sons, George. (See Wilson, George, assignor.)						
Wilson, Samuel J., Welleborough, Pa. Folding umbrella	321,561	July 7	213	56	32	42
Wilson, Samuel R., Irving Park, Ill. Needle-thrader for sewing-machines	321,469	July 7	86	23	32	18
Wilson, Solon T., Echo, Tex. Suspension-bridge	314,900	Mar. 31	2538	671	30	1392
Wilson, Thomas, Philadelphia, Pa. Swing	320,319	June 16	1873	492	31	1402
Wilson, Thomas, Jr., Washington, Ind. Mine-ventilator	325,034	Aug. 25	2223	610	32	930
Wilson, Thomas E., Farmland, Ind. Farm-gate	323,476	Aug. 4	120	35	32	544
Wilson, Thomas E., Farmland, Ind. Fence-post	325,302	Sept. 1	99	28	32	1034
Wilson, Thomas J., Auburn, N. Y. Wrench	314,085	Mar. 17	1439	376	30	1062
Wilson, Thomas J., Newark, N. J. Combined lace-pin and flower-holder	314,502	Mar. 24	1925	530	30	1171
Wilson, Thomas L., Port Hope, Ontario, Canada. Railway-car	311,553	Feb. 3	132	38	30	373
Wilson, Thomas R. (See Hill and Wilson.)						
Wilson, Walker & Co. (See Shallenberger, Frank L., assignor.)						
Wilson, Walker & Co. (See Simpson, Gladhill, and Gailliot, assignors.)						
Wilson, Walker & Company. (See Simpson, James H., assignor.)						
Wilson, William, Edgewater, N. J. Wall-paper	326,190	Sept. 15	1297		32	1268
Wilson, William, Bloomington, Ill. Valve-gear	327,047	Sept. 20	2476	647	32	1497
Wilson, William, Bloomington, Ill. Car-coupling	330,279	Nov. 10	1141	303 304	33	731
Wilson, William H., et al. (See Sturgis, David, assignor.)						
Wilson, William P., assignor of one-half to T. Craig, Trenton, N. J. Chimney top and ventilator	330,668	June 23	2277	602	31	1486
Wilson, William R. (See Ayers, Albert, assignor.)						
Wilson, William V., London, England. Apparatus for the manufacture of white lead	322,235	July 14	1118	291	32	213
Wilt, Benjamin, assignor of one-half to J. Fisher, Jr., Philadelphia, Pa. Combined harrow and pulverizer	317,909	May 12	1313	351	31	773
Witt, George B., assignor of one-half to W. M. Page, Bradford, Pa. Railway-rail joint	311,454	Jan. 27	1740	474	30	340
Witt, Joseph W., Altoona, Pa. Measuring-spigot	322,876	July 21	1979	524	32	376
Witz, Michael. (See Largent, James J., assignor.)						
Wimer, L. Edmund, Marysville, Pa. Block and switch signal	322,877	July 21	1980	524 525	32	376
Winpee, George C., Rome, Ga. Lifting-jack	313,794	Mar. 10	1032	265	30	977
Winans, Edwin, New York, N. Y. Power-transmitting machinery	324,509	Aug. 18	1507	413	32	817
Winans, George G. (See Champlain and Winans.)						
Winans, Henry S. (See Perry, Edward L., assignor.)						
Winans, Herman W., assignor to J. K. Ford, New York, N. Y. Braiding-machine	313,905	Mar. 17	1186	308 309	30	1014
Winans, Thomas J. (See Noyes and Winans.)						
Winans, Thomas J., assignor to J. P. Noyes & Co., Binghamton, N. Y. Button	312,943	Feb. 24	2010	549	30	744
Winans, Thomas J., assignor to J. P. Noyes & Co., Binghamton, N. Y. Comb	327,372	Sept. 29	2908	759	32	1572
Winans, Walter, Brighton, county of Sussex, England. Electric sight for fire-arms	320,200	June 16	1675	446	31	1360
Winbury, John T., Sumter, S. C. Sewing-machine motor	331,666	Dec. 1	634	156	33	1109
Winchell, Addison H., assignor of two-thirds to S. N. Lemon, Huron, Ohio, and G. F. Gardner, Hillsdale, Mich. Vehicle shifting top	331,667	Dec. 1	635	156	33	1109
Winchell, Alvin T., Allion, Mich. Device for transmitting power to windmills	323,011	July 28	2180	578	32	419
Winchell, James F., Springfield, Ohio. Detachable lever for forges. (Reissue.)	10,593	May 5	735	191	31	630
Winchell, James F., assignor to Foss Manufacturing Company, Springfield, Ohio. Blower	314,901	Mar. 31	2539	671	30	1398
Winchell, James F., assignor to Foss Manufacturing Company, Springfield, Ohio. Adjustable leg for forges	396,006	Sept. 8	1042	265	32	1214
Winchell, James F., assignor of one-fourth to E. Banroth, Springfield, Ohio. Hay-tedder	322,878	July 21	1963	525	32	376
Winchester, Edward G., Ashburnham, Mass. Suspensory-bandage	321,072	June 30	2287	768	31	1606
Winchester, Edward S., Boston, Mass. Shuttle-operating mechanism for looms	310,970	Jan. 20	1055	286	30	308
Winchester Repeating Arms Company. (See Bennett, Thomas G., assignor.)						
Winchester Repeating Arms Company. (See Browning, John M. and M. S., assignors.)						
Winchester Repeating Arms Company. (See Clough, Jefferson M., assignor.)						
Winchester Repeating Arms Company. (See Curtis and Russell, assignors.)						
Winchester Repeating Arms Company. (See Gardner, John, assignor.)						
Winchester Repeating Arms Company. (See Mason, William, assignor.)						
Winchester Repeating Arms Company. (See Parker, Edward, assignor.)						
Winder, Richard, Farningham, county of Kent, England. Nose-band for bridles or halters	329,352	Oct. 27	2505	645	33	477
Windhausen, Franz, Berlin, Germany. Refrigerating rooms and liquids and apparatus used therefor	323,767	Aug. 4	504	142	32	617
Windsor, Richard S., Americus, Ga. Plow	329,609	Nov. 3	955	66	33	553
Windt, Henry T., New York, N. Y. Wire fabric	323,477	Aug. 4	121	35	32	544
Windus, Werner. (See Button, Joseph, assignor.)						
Wine, Henry, Marion, Ind. Car-coupling	318,844	May 26	2572	664	31	1018
Wineberger, William F., Quincy, Mass. Bag-fastener	331,357	Dec. 1	139	35	33	1083
Winebrener, John, assignor of one-half to J. Shipley, Hecla, Ind. Cant-hook	319,373	June 2	533	145	31	1149
Wineland, William H. (See Buckley and Wineland.)						
Wineman, Eli F., Joliet, Ill. Towel-rack	323,478	Aug. 4	122	35	32	544
Wineman, Hugo A. (See Thompson, Ralph, assignor.)						
Wines, Henry M., Centre Moriches, N. Y. Wash-board holder	327,747	Oct. 6	318	82	33	56
Winfield, Charles G., assignor to R. A. Fulmer, Conneaut, Ohio. Roller-skate	330,658	Nov. 17	1636	440	33	634
Wing, Benedict and J., Table Rock, Nebr. Washing machine	311,935	Feb. 10	634	174	30	475
Wing, Benjamin, Vassalborough, Me. Device for centering hubs and other blocks	330,636	Nov. 17	1491	399	33	604
Wing, Daniel S., New York, N. Y. Hand-truck	310,485	Jan. 6	408	112	30	79
Wing, Daniel S., Syracuse, N. Y. Vehicle-wheel	328,555	Oct. 20	1374	358	33	265
Wing, Giles F. (See Page, Justin E., assignor.)						
Wing, Joel. (See Wing, Benedict and J.)						
Wing, Levi J., Brooklyn, N. Y. Apparatus for circulating and attempering air in malt-houses and other buildings	312,597	Feb. 17	1502	496	30	655
Wing, William S. (See Newton and Wing.)						
Wingate, William H., et al. (See Parry, George T., assignor.)						
Winger, Henry, Marshallville, Ohio. Harrow	330,952	Nov. 24	2030	549	33	915
Winget, J. S. (See Winget, Marion A., assignor.)						
Winget, Marion A., assignor to J. S. Winget, Columbus, Ohio. Cigar-machine	332,174	Dec. 8	1379	386	33	1232
Wingo, Robert A., assignor of two-thirds to J. W. Hagler and W. M. Cooley, Erin, Tenn. Water-wheel	322,879	July 21	1984	596	32	377
Wingrove, Thomas R., Baltimore, Md. Refrigerator building and apparatus	319,374	June 2	534	145 146	31	1180

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Winkel, Carl, Williamsburg, assignor of one-half to L. A. Ludwig, New York, N. Y. Paper-guard for printing-telegraphs.	319,770	June 9	1077	286	31	1255
Winkelmann, Johann F. A., Schell City, Mo. Rein-holder.	314,356	Mar. 24	1785	475	30	1137
Winkler, Alois, Oneonta, N. Y. Device for setting, filing, and jointing circular saws.	333,082	Dec. 22	2663	699	33	1494
Winkler, Egbert. (See Weinberg, Clark, and Winkler.)						
Winkley, Albert A., Faribault, Minn. Artificial leg.	316,589	Apr. 28	2214	582	31	420
Winn, John H. (See Selby, Patrick, assignor.)						
Winn, Willis O. (See Lampton, William R., assignor.)						
Winne, William L., Albany, assignor of one-half to J. Godwin, New York, N. Y. Fastening device for horse-blankets.	314,002	Mar. 31	2540	672	30	1299
Winning, Adna C., Boston, Mass. Tobacco-pipe.	323,542	Aug. 4	591	106	32	635
Winquest, Henry C., Fairfield, Iowa. Osculating churn.	318,587	May 26	2231	596	31	957
Winship, George, assignor to Winship Machine Company, Atlanta, Ga. Cotton-gin feeder.	313,038	Feb. 24	2144	563	30	777
Winship Machine Company. (See Winship, George, assignor.)						
Winship, William F., Albany, N. Y. Saab-balance.	317,262	May 5	453	113 114	31	606
Winslow, Samuel, Worcester, Mass. Skate-clamp.	324,204	Aug. 11	1098	296	32	734
Winslow, Samuel, Worcester, Mass. Skate.	327,848	Oct. 6	443	115	33	78
Winslow, Samuel, Worcester, Mass. Skate.	327,849	Oct. 6	445	116	33	78
Winslow, William H., Brooklyn, N. Y. Covering metallic objects with an electroplating of magnetic oxide.	331,104	Nov. 24	2215		33	950
Winslow, William H., Brooklyn, N. Y. Magnetic-oxide-of-iron-plated ware.	331,105	Nov. 24	2215		33	950
Winsor, Charles F., San Quentin, Cal. Rigger for boats.	313,398	Mar. 3	505	131	30	870
Winsor, George W. (See Mason and Winsor.)						
Winstead, Addison R., Grafton, Va. Shifting the top-sail sheet and tack.	329,988	Nov. 10	766	195 196	33	655
Winsted Norway Bolt Company. (See Stacker, John, assignor.)						
Winston, John H. C., Lynchburg, Va. Saw-filing machine.	320,735	June 23	2434	645 646	31	1516
Winston, John H. C., Lynchburg, Va. Saw-setting machine.	325,035	Aug. 25	2224	610 611	32	959
Wint, Theodore J., Fort Leavenworth, Kans. Riding-saddle.	330,522	June 23	2164	571	31	1464
Winter, Caroline H., St. Paul, Minn. Shoe.	312,056	Feb. 10	804	219	30	505
Winter, Herman, New York, N. Y., and W. C. Williamson, assignors to G. W., J. D., and W. C. Williamson, Philadelphia, Pa. Steering machinery.	318,068	May 19	1533	411	31	821
Winter, Hermann, Helena, Mont. Ter. Head-section.	319,537	June 9	771	205	31	1199
Winterbottom, William S., Philadelphia, Pa. Attachment to squares.	329,353	Oct. 27	2506	645	33	477
Winterburn, Andrew, Albany, N. Y. Clasp for wearing-apparel.	315,873	Apr. 14	1240	323	31	231
Winters, Alanson D., Bombay, N. Y. Truss.	314,503	Mar. 24	1928	530	30	1171
Winters, Byron. (See Hulbut, James H., assignor.)						
Winters, George W., Knoxville, Iowa. Windmill.	313,148	Mar. 3	147	36	30	804
Winters, John B., assignor of five-eighths to M. F. Bergin and A. B. Enoch, Bergen, N. Y. Car-coupling.	325,303	Sept. 1	99	29	32	1034
Winton, Henry D., Wellesley Hills, Mass. Single-rail circuit for electric railway-signals.	311,050	Jan. 20	1163	318	30	229
Winton, Henry D., Wellesley Hills, Mass. Railway-rail connection.	315,586	Apr. 14	855	225	31	159
Winton, Henry D., Wellesley Hills, Mass. Track-instrument.	317,910	May 12	1314	351	31	773
Winton, Henry D., Wellesley Hills, Mass. Electric signal.	317,911	May 12	1315	352 353	31	773
Winton, Moses T., Binghamton, N. Y. Paint-tub for wagon-wheels.	311,917	Jan. 27	1410	385	30	220
Witzenried, Godfrey, Schulenburg, Tex. Tool for removing chips from mortises.	320,736	June 23	2437	646	31	1517
Wipfler, Valentin. (See McLaughlin, Stephen R., assignor.)						
Wire Goods Company. (See Parmelee, Arthur W., assignor.)						
Wire Goods Company. (See Perkins, William C., assignor.)						
Wirsching, Aloys, Brooklyn, N. Y. Printing-telegraph receiver.	327,911	Oct. 6	594	136 137	33	94
Wirt, Paul E., Bloomsburg, Pa. Fountain-pen.	311,554	Feb. 3	133	39	30	374
Wirt, Paul E., Bloomsburg, Pa. Fountain-pen.	328,169	Oct. 13	968	294	33	163
Wirt, Paul E., Bloomsburg, Pa. Fountain-pen.	330,358	Nov. 10	1253	334	33	753
Wirths, Walter, Jersey City, N. J. Fancy card.	321,688	July 7	343	91	32	65
Wirtz, Jacob C., and H. E. Scholle, Chicago, Ill. Wardrobe-bed.	322,580	July 21	1966	526	34	377
Wisdom, Samuel J., Montgomery, Ala. Nut-lock.	326,700	Sept. 23	1973	518	32	1401
Wise, Joseph, assignor to J. Wise & Son, Watertown, N. Y. Drawer-pull.	311,158	Jan. 20	1317	369	30	256
Wise & Son, J. (See Wise, Joseph, assignor.)						
Wise, Thomas P., Richmond, Va. Rat and mouse trap.	326,717	Sept. 8	677	170	32	1147
Wise, William P., assignor of two-thirds to C. N. Kautz and L. B. Langworthy, Bristol, Ind. Composition slating for blackboards, &c.	314,636	Mar. 31	2165		30	1230
Wischart, Jackson, et al. (See Thoroughgood, John E., assignor.)						
Wiselogle, Frederick G., Indianapolis, Ind. Offal-drier.	317,061	May 5	169	43	31	554
Wiseman, Arthur G., Webster Groves, Mo. Watch-winding device.	320,009	June 23	2278	602	31	1487
Wisewell, Lowell M., Boston, Mass. Roller-skate.	311,936	Feb. 10	636	175	30	475
Wisner, Fred, Ridgway, Pa., assignor to himself and A. M. Hall, Olean, N. Y. Tea or coffee pot.	311,455	Jan. 27	1741	474	30	340
Wisner, Jesse O., et al. (See Heath, James S., assignor.)						
Wisner, Wareham S., et al. (See Heath, James S., assignor.)						
Wiswell, Joseph, Decatur, Ill. Sled-propeller.	314,310	Mar. 17	1562	419	30	1087
Wiswell Electric Mining Machinery Company. (See Wiswell, Jacob C., assignor.) (Reissue.)						
Wiswell, Jacob C., Medford, Mass., assignor to Wiswell Electric Mining Machinery Company, Portland, Me. Ore-crusher. (Reissue.)	10,659	Nov. 3	613	156	33	620
Witham, Edwin E., Stark, N. H. Carriage-top.	314,903	Mar. 31	2541	672	30	1299
Witherow, James P., et al. (See Dode, John C., assignor.)						
Witherow, James P., et al. (See Schulze-Berge, Hermann, assignor.)						
Witherow, James P., et al. (See Wilcox, John F., assignor.)						
Witherow, James P., Allegheny, Pa. Apparatus for the manufacture of iron and steel.	315,587	Apr. 14	856	225	31	159
Witherow, James P., Pittsburg, Pa. Appliance for regulating the blast-pressure of converters.	317,263	May 5	454	114	31	606
Witherow, James P., Pittsburg, Pa. Regulating the blast-pressure of converters.	317,264	May 5	455	114	31	607
Witherow, James P., Allegheny, Pa. Purifying pig-iron.	314,504	Mar. 24	1987	530	30	1172
Witherow, James P., Allegheny City, Pa. Making steel by the pneumatic operation.	327,419	Sept. 29	2973	775	32	1584
Witherow, James P., Allegheny City, Pa. Converter.	327,420	Sept. 29	2973	776	32	1584
Witherow, James P., Allegheny City, Pa. Converter.	327,421	Sept. 29	2974	776	32	1584
Witherow, James P., Allegheny City, Pa. Converter.	327,422	Sept. 29	2975	777	32	1584
Witherow, James P., Allegheny City, Pa. Converter.	327,423	Sept. 29	2976	777	32	1584
Witherow, James P., Allegheny City, Pa. Converter.	327,424	Sept. 29	2976	777	32	1585
Witherow, James P., Allegheny City, Pa. Steel-plant appliance.	327,425	Sept. 29	2977	778	32	1585

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Witherow, James P., H. W. Oliver, Jr., J. F. Wilcox, and G. E. Tener, Pittsburg, Pa.; said Wilcox and Tener assignors to said Oliver and Witherow. Ingot iron and steel.	314,505	Mar. 24	1988		30	1178
Witherow, James P., H. W. Oliver, Jr., J. F. Wilcox, and G. E. Tener, Pittsburg, Pa.; said Wilcox and Tener assignors to said Oliver and Witherow. Making ingot iron and steel.	314,506	Mar. 24	1988		30	1172
Witherspoon, Frank, Paris, Tex. Clock striking mechanism.	326,825	Sept. 22	2178	588	32	1436
Withington, James, Chambersburg, assignor to Trenton Iron Company, Trenton, N. J. Cone-pulley.	311,402	Jan. 27	1674	456 467	30	329
Withington, James, Chambersburg, assignor to Trenton Iron Company, Trenton, N. J. Wire-unwinding reel.	323,012	July 28	2181	579	32	420
Withington, James, Chambersburg, assignor to Trenton Iron Company, Trenton, N. J. Wire-feeding device.	323,013	July 28	2182	579	32	420
Withington, James, assignor to Trenton Iron Company, Trenton, N. J. Implement for stretching wire.	324,285	Aug. 11	1900	326	32	754
Withington, William H., Jackson, Mich. Fork.	324,908	Aug. 25	2060	563 064	32	928
Withrow, James T., Jr., assignor of one-third to J. T. Withrow, Sr., Huntsville, Ark. Automatic railway-gate.	318,069	May 19	1536	411	31	821
Withrow, Joseph A., Scranton, Iowa. Check-rowing attachment for corn-planters.	312,783	Feb. 24	1806	496	30	708
Witkowski, Simon. (See Hollingsworth, Joseph, assignor.)						
Witkowski, Abraham, Cleveland, Ohio. Combined blouse and pantaloons.	324,286	Aug. 11	1201	326	32	754
Witman, Augustus H., Minersville, Pa. Powder-keg discharge-tube.	315,874	Apr. 14	1241	323	31	232
Wittmer, Abraham R., Safe Harbor, Pa. Car-starter.	311,627	Feb. 3	224	63	30	391
Wittmer, Horace F., Philadelphia, Pa. Apparatus for developing and washing photographs.	331,668	Dec. 1	637	157	33	1109
Witt, Adam J., Rochester, N. Y. Snow-plow.	323,993	Oct. 27	1924	516	31	383
Witte, George C., Covington, and R. D. Murrell, Social Circle, Ga. Churn.	327,912	Oct. 6	527	137	33	94
Witte, Lewis H., Cleveland, Ohio. Triturator.	313,906	Mar. 17	1188	309	30	1014
Wittenmann Brothers. (See Bannwart and Ermold, assignors.)						
Wittenström, Carl, Stockholm, Sweden. Facing or molding material for molds for casting metal.	317,062	May 5	171		31	554
Wittenström, Carl, Stockholm, Sweden. Casting apparatus.	317,063	May 5	173	44	31	554
Wittenström, Carl, Stockholm, Sweden. Metal mold for castings.	317,064	May 5	175	44	31	555
Wittenström, Carl G., Stockholm, Sweden, assignor to T. Nordenfält, 53 Parliament Street, Westminster, England. Manufacturing castings from wrought-iron and steel by adding aluminum.	333,373	Dec. 29	3053		33	1570
Wittmack, Charles A., assignor of two-thirds to W. N. Collins and P. D. Ricketts, New York, N. Y. Drying-oil.	326,467	Sept. 15	1659		32	1336
Wittmann, Noel B., assignor to Pittsburg Steel Casting Company, Pittsburg, Pa. Deoxidizing molten iron in the manufacture of steel.	318,067	May 19	1531		31	820
Wittam, Frederick, San Francisco, Cal. Safety attachment for elevators and inclined railways.	327,048	Sept. 29	2478	647	32	1497
Wittram, Frederick, San Francisco, Cal. Siphon-pump.	330,078	Nov. 10	895	231	33	621
Wittram, Frederick, San Francisco, Cal. Rotary plow.	330,458	Nov. 17	1367	369	33	784
Witty, John B., Indianapolis, Ind. Rail-coupling.	317,065	May 5	175	44	31	555
Witzel, August, Deadwood, Dak. Ter. Support for buggy-tops.	311,703	Feb. 3	318	87	30	409
Witzenmann, Henri. (See Levavasseur, Eugène, assignor.)						
Wixon, Howard, and G. Menard, Chicago, Ill. Box-pulling attachment.	322,031	July 14	855	223	32	163
Wlach, Franz, Vienna, Austria-Hungary. Lantern.	313,875	Apr. 14	1242	324	31	232
Wock, John, assignor of one-half to J. C. Skelton and A. Hoeffer, Canton, Ohio. Pump.	320,737	June 23	2437	646	31	1517
Woebler, Amos, Cincinnati, Ohio. Target-trap.	316,590	Apr. 28	2215	583	31	420
Woelfle, Louis, New York, N. Y. Cornice.	316,715	Apr. 28	2402	626	31	455
Woepffel, Ignatz. (See Tripp and Woepffel.)						
Woerd, Charles V., Waltham, Mass. Minute wheel and pinion.	318,675	May 26	2338	624	31	978
Woerd, Charles V., Waltham, Mass. Machine for roughing out pinions for watches.	329,992	June 30	2776	737 738	31	1586
Woerd, Charles V., Waltham, Mass. Stem winding and setting mechanism for watches.	330,537	Nov. 17	1492	399	33	804
Wohlenberg, Hermann, Hanover, Prussia, Germany. Screw-threading lathe.	319,943	June 9	1331	351	31	1299
Wohlfarth, Charles F., and C. W. Wakefield, Norwich, Conn., assignors to W. F. Collins and T. Milburn, Toronto, Canada. Car-brake. (Reissue.)	10,671	Dec. 8	1446	373	33	1364
Wolcott, Anson, Wolcott, Ind. Freight-car.	326,701	Sept. 22	1974	518	32	1401
Wolcott, Anson, Wolcott, Ind. Car-dump.	327,506	Sept. 29	3073	800 801	32	1601
Wolcott, Anson, Wolcott, Ind. Grain-drier.	329,422	Oct. 27	2618	675 676	33	497
Wolcott, Henry E., Syracuse, N. Y. Oil-can.	327,975	Oct. 6	610	159	33	110
Wolcott, Hyman D., Wrights, Pa. Saw-arbor.	314,637	Mar. 31	2165	574	30	1230
Wolf, Abraham, New York, N. Y. Sifter for flour, &c.	319,375	June 2	536	146	31	1150
Wolf, Abraham N., Allentown, Pa. Bolting-reel.	321,875	July 7	645	167	32	117
Wolf, Abraham N., Allentown, Pa. Separator.	326,077	Sept. 8	1144	291	32	1233
Wolf, Alfred S. (See King, Phineas F., assignor.)						
Wolf, Carl, Zwickau, and H. Friemann, Elsieben, Germany. Miner's safety-lamp.	322,514	July 21	1499	394	32	228
Wolf, Charles B. (See Scherff and Wolf.)						
Wolf, Charles F., Terre Haute, Ind. Drier.	318,588	May 26	2332	596 597	31	957
Wolf, Elihu, North Vernon, Ind. Neck-yoke clamp.	310,351	Jan. 6	270	71	30	49
Wolf, Jacob, Cutchogue, N. Y. Vehicle-spring.	331,669	Dec. 1	639	157	33	1110
Wolf, John P., and G. Ifland, Chicago, Ill. Table-leaf support.	331,257	Dec. 8	908	234	33	1168
Wolf, Josef, Hoboken, N. J. Hammer.	323,248	July 28	2508	666	32	480
Wolf, Josef, Hoboken, N. J. Lock-hinge.	324,444	Aug. 18	1418	327	32	801
Wolf, Charles A., et al. (See Wolfe, Harvey R., assignor.)						
Wolfe, Edward W., assignor to Reading Iron Works, Reading, Pa. Pipe-coupling.	320,738	June 23	2438	646	31	1518
Wolfe, Ferdinand, Baudt, Mo. Animal-trap.	332,175	Dec. 8	1380	356	33	1252
Wolfe, Gurdon G., assignor to Fuller & Warren Company, Troy, N. Y. Stove.	313,568	Mar. 10	723	190	30	921
Wolfe, Harvey R., assignor to Brennan & Co., Southwestern Agricultural Works, and C. A. Wolfe, Louisville, Ky. Saw-swing.	315,104	Apr. 7	159	38	31	30
Wolfe, Harvey R., assignor to Brennan & Co. South Western Agricultural Works and C. A. Wolfe, Louisville, Ky. Grain-drill.	322,669	July 21	1693	449	32	325
Wolfe, Harvey R., assignor to Brennan & Co. South Western Agricultural Works and C. A. Wolfe, Louisville, Ky. Saw-swing.	323,996	Aug. 11	793	221	32	679
Wolfe, Harvey R., assignor to Brennan & Co. South Western Agricultural Works, Louisville, Ky. Feed mechanism for saw-mill carriages.	324,050	Aug. 11	822	243	32	623
Wolfe, Jed A. (See Newsom, Charles S., assignor.)						
Wolfe, John J., West Millville, Pa. Car-coupling.	311,628	Feb. 3	225	63	30	391
Wolfe, John J., West Millville, Pa. Fruit-drier.	333,435	Dec. 29	3131	818	33	1582
Wolfe, Newton I., Canal Winchester, Ohio. Machine for pressing molded bricks.	318,934	May 26	2686	711	31	1030

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Wolfe, Robert, Waterbury, Conn. Wrench.....	330,453	Nov. 17	1388	370	33	785
Wolff, Ferdinand, Hoboken, N. J. Cap for mustard-bottles.....	327,635	Oct. 6	184	45	33	33
Wolff, Frank F., New York, N. Y. Faucet.....	323,094	July 28	2301	607	32	441
Wolff & Co., R. (See Blust, Charles, assignor.)						
Wolflinger, Joseph A., et al. (See Ewing, Reuben H., assignor.)						
Wolflinger, William J., et al. (See Ewing, Reuben H., assignor.)						
Wolfley, John. (See Colvin and Wolfley.)						
Wolgamot, David A. (See Hollinger, Wolgamot, and Gonser.)						
Wolgamuth, Edward K. (See Wolgamuth, Francis F., assignor.)						
Wolgamuth, Francis F., assignor of one-half to E. K. Wolgamuth, Philadelphia, Pa. Potato-planter.....	318,324	May 19	1733	463	31	850
Wolle, Clarence A. (See Leinbach, Wolle, and Brunner.)						
Wolle, Clarence A., et al. (See Honiss, William H., assignor.)						
Wolle, Clarence A., et al. (See Lorenz, William A., assignor.)						
Wolle, Clarence A., et al. (See Lorenz and Honiss, assignors.)						
Wollensak, John F., Chicago, Ill. Transom-lifter.....	310,352	Jan. 6	260	71	30	50
Wollensak, John F., Chicago, Ill. Key.....	323,470	Aug. 4	123	35	32	544
Wolpert, Henry R., Lancaster, Pa. Track-fastener.....	329,870	Nov. 3	602	154	33	617
Wolsley, Frederick Y. (See Savage, Robert, assignor.)						
Wolters, Charles. (See Kronenberg and Wolters.)						
Wolverton, S. P. (See Broughton, Frederick S. D., assignor.)						
Womack, Alexander, Falk's Store, Idaho Ter. Pick.....	324,445	Aug. 18	1418	387	32	801
Womack, John D., Cameron, Tex. Vermin-poison.....	328,445	Oct. 13	1230	.....	33	233
Wommer, Louis, and J. Buck, Minneapolis, Minn. Centrifugal bolting-reel.....	329,423	Oct. 27	2620	676	33	497
Womacott, Charles, assignor of one-half to J. H. Bulpitt, Bishop Creek, Cal. Vehicle-axle.....	320,301	June 16	1676	446	31	1369
Wondries, Charles, Jr. (See Scovill, George W., assignor.)						
Wood, Albert B., New York, N. Y. Refrigerator.....	315,105	Apr. 7	100	38	31	30
Wood, Albert J., Wilder, Kans. Corn-planter.....	316,424	Apr. 21	1894	524	31	373
Wood, Allen F. (See Rutherford and Wood.)						
Wood, Alvin B. (See Burt, Samuel S., assignor.)						
Wood, Arthur A., Hyde Park, Mass. Cutting-off tool.....	323,480	Aug. 4	193	36	32	544
Wood, Arthur H., Lansing, Mich. Knob attachment.....	316,501	Apr. 28	2216	583	31	421
Wood, Aurin, assignor to C. N. Hair, Worcester, Mass. Shaft-straightening machine.....	320,610	June 23	2970	602	31	1457
Wood, Benjamin, New York, N. Y. Butter-package.....	330,079	Nov. 10	297	232	33	682
Wood Board Manufacturing Company. (See King, George D., assignor.)						
Wood, Charles D., Lincoln, R. I., assignor to Boot and Shoe Sole Laying Machine Company, Portland, Me. Sole-laying machine.....	328,446	Oct. 13	1230	310	33	233
Wood, Claudius D., Alexandria, Minn. Sack-holder.....	310,353	Jan. 6	261	72	30	50
Wood, D. Rush. (See Russell and Wood.)						
Wood, De Volson, Boonton, N. J. Rock-drill.....	316,716	Apr. 28	2403	626	31	455
Wood, De Volson, Boonton, N. J. Rock-drill.....	319,653	June 9	928	245	31	1227
Wood, Edward E., Jr., Northampton, Mass. Fork guard and rest.....	318,070	May 19	1537	412	31	821
Wood, Edwin A., Utica, N. Y. Steam-heating device.....	311,704	Feb. 3	319	87	30	409
Wood, Edwin A., Utica, N. Y. Preventing the formation of ice on show-windows.....	317,265	May 5	456	{ 114 115 }	31	607
Wood, Eli H., Cherry Valley, Mo. Churn.....	325,894	Sept. 8	897	225	32	1188
Wood, Frank B., assignor to H. Thau and E. Bleco, New York, N. Y. Call-box.....	317,912	May 12	1319	353	31	774
Wood, Frank B., assignor to New Haven Clock Company, New York, N. Y. Telegraphic call-instrument.....	321,073	June 30	2828	768	31	1607
Wood, Frank B., New York, N. Y., assignor to New Haven Clock Company. Telegraphic call-box.....	329,871	Nov. 3	603	{ 154 156 }	33	618
Wood, Frank E. (See Wood, Josiah W. and F. E.)						
Wood, Frederick S., assignor of one-third to Novelty Tool Company, (limited,) Pittsburg, Pa. Railway-switch.....	323,481	Aug. 4	124	36	32	544
Wood, Fredrick W. (See Belknap and Wood.)						
Wood, Hervey. (See Wood and Wiley.)						
Wood, Hylas, Marysville, Ohio. Halter.....	331,670	Dec. 1	640	158	33	1110
Wood, Hylas, Marysville, Ohio. Kitchen-cabinet.....	332,222	Dec. 8	1443	373	33	1284
Wood, James F., Woodyard, assignor of one-fourth to B. E. Russell, Downingtown, Ohio. Washing-machine.....	327,507	Sept. 29	3076	801	32	1602
Wood, James J., Brooklyn, N. Y. Electric alarm.....	325,639	Sept. 1	558	142	32	1121
Wood, James J., Brooklyn, assignor to Fuller Electrical Company, New York, N. Y. Current-regulator for dynamo-electric machines.....	396,494	Sept. 29	2275	585	32	1453
Wood, Jehu H., Lebanon, Ohio. Uniting gold and vulcanite.....	325,269	Sept. 1	338	.....	32	1020
Wood, John, Conshohocken, Pa. Adjusting device for rolling-mills.....	319,654	June 9	929	246	31	1228
Wood, John, Jr. (See Curtis and Wood.)						
Wood, John B., Montreal, Quebec, Canada. Telephonic circuit and apparatus.....	330,763	Nov. 17	1781	480	33	861
Wood, John B., assignor to M. M. Wood and W. L. Quinn, Brooklyn, N. Y. Mixed paint.....	312,784	Feb. 24	1807	.....	30	708
Wood, John B., Providence, assignor to R. Bliss Manufacturing Company, Pawtucket, R. I. Railway game apparatus.....	326,078	Sept. 8	1145	291	32	1233
Wood, John C., Table Rock, Nebr. Sewing-machine.....	320,033	June 16	1457	383	31	1330
Wood, John F., Houma, La. Sugar-cane scraper and pea-vine harvester.....	321,562	July 7	214	56	32	42
Wood, John M. (See Plummer and Wood.)						
Wood, Joseph M., assignor to Etna Glass and Manufacturing Company, Bellaire, Ohio. Mold for glass lamps, &c.....	312,312	Feb. 17	1171	321	30	581
Wood, Joseph S., Brooklyn, assignor to R. E. Dietz, New York, N. Y. Gas-engine.....	328,170	Oct. 13	866	{ 224 225 413 }	33	164
Wood, Josiah W. and F. E., Beaver Centre, Pa. Wind-engine.....	324,510	Aug. 18	1510	{ 414 415 }	32	818
Wood, Luther B. (See Parker, Harry W., assignor.)						
Wood, Luther B., Omaha, Nebr. Lantern.....	316,425	Apr. 21	1995	524	31	373
Wood, Luther B., assignor to himself and S. M. Beery, Omaha, Nebr. Dust-guard for car-platforms.....	317,266	May 5	458	115	31	607
Wood, Mary M., et al. (See Wood, John B., assignor.)						
Wood Mowing and Reaping Machine Company, Walter A. (See Howe, George H., assignor.)						
Wood Mowing and Reaping Machine Company, Walter A. (See Rosebrooks, John M., assignor.)						
Wood, Newell B., Washington, Ohio. Grain-drill.....	311,051	Jan. 20	1165	{ 318 319 }	30	229
Wood, Orville K., West Chazy, N. Y. Sectional ladder.....	317,913	May 12	1320	354	31	774
Wood, P. F. (See Sly, Morgan H., assignor.)						
Wood, Richard G., assignor, by mesne assignments, to G. J. Murray, Cincinnati, Ohio. Two-wheeled vehicle.....	317,066	May 5	176	45	31	555

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Wood, Richard G., Cincinnati, Ohio, assignor to P. and J. E. Reilly, Newark, N. J. Dash-making machine.	320,424	Oct. 27	2623	677	33	497
Wood, Robert A. (See Stewart, Edward J., assignor.)						
Wood, Sylvanus B. and H., and T. W. Wiley, Callisburg, Tex. Churning device.	316,426	Apr. 21	1996	524	31	373
Wood, Theodore F., Vernon, N. J. Clothes-washer.	323,768	Aug. 4	507	143	32	618
Wood, Thomas J. (See Wallace and Wood.)						
Wood, Thomas W., Atlanta, Ga. Store-back.	324,346	Aug. 11	1286	348	32	770
Wood, Thomas W., Asbury Park, N. J. Combination knife, compasses, and ruler.	323,911	Oct. 20	1843	480	33	351
Wood Tip Cigarette Company of California. (See McCoy, Juan W., assignor.)						
Wood, Valentine, Peru, Ind. Harrow attachment for plows.	331,358	Dec. 1	140	35	33	1023
Wood, W. Dewees, Pittsburg, Pa. Making sheet-iron.	310,354	Jan. 6	263		30	50
Wood, Walter S., Kalamazoo, Mich. Fanning-mill.	315,563	July 7	216	57	32	43
Wood, William, assignor of one-half to J. Sibley, Philadelphia, Pa. Asbestos packing ring.	326,079	Sept. 8	1146	291	32	1234
Wood, William C. (See Simmons, Charles W., assignor.)						
Wood, William C. (See Turner, William A., assignor.)						
Wood, William H. (See Stevens and Wood.)						
Wood, William H., et al. (See Hemingway, Henry N., assignor.)						
Wood, William H., New York, N. Y. Feed-water heater.	319,376	June 2	537	146	31	1150
Wood, William H., New York, N. Y. Refrigerating and ice machine.	334,869	July 7	344	91.92	32	65
Wood, William R., Mapleton, Iowa. Spring for buggy tops.	324,909	Aug. 25	2061	564	32	928
Woodard, James A., assignor of one-half to A. J. Halford, Grapevine, Tex. Cotton-stalk chopper.	323,014	July 28	2183	579	32	420
Woodard, John E. (See Smith and Woodard.)						
Woodborne, George W., Uhrichville, Ohio, assignor of one-half to T. R. Woodborne. Stove-pipe thimble.	315,988	Apr. 14	1402	364	31	260
Woodborne, T. R. (See Woodborne, George W., assignor.)						
Woodbridge, Frank. (See Heaton, Horace L., assignor.)						
Woodbridge, James E., Hartford, Conn. Screw-threading tap.	318,071	May 19	1538	412	31	822
Woodbridge, James E., Hartford, Conn. Relieving screw-taps.	318,153	May 19	1641	458	31	841
Woodbridge, William E., Washington, D. C. Wire-tension apparatus.	317,267	May 5	458	115	31	607
Woodbury, Daniel A., Rochester, N. Y. Connecting rod.	315,689	Apr. 14	984	258	31	185
Woodbury, Daniel A., Rochester, N. Y. Balanced slide-valve. (Reissue.)	10,661	Nov. 10	1265	336	33	765
Woodbury, Daniel A., Rochester, N. Y. Balanced slide-valve.	331,018	Nov. 24	2107	570	33	930
Woodbury, Daniel A., Rochester, N. Y. Balanced slide-valve.	331,858	Dec. 8	909	235	33	1168
Woodbury, Edward F. (See Woodbury, Merrill, Patten, and Woodbury.)						
Woodbury Engine Company. (See Creelman, William J., assignor.)						
Woodbury, Hezekiah O., and S. T. Thacher, Jr., Beverly, Mass. Fire-escape.	326,616	Sept. 22	1662	487	32	1379
Woodbury, James A., J. Merrill, and G. Patten, Boston, Mass. Hot-air engine.	324,060	Aug. 11	863	243	32	694
Woodbury, James A., J. Merrill, G. Patten, and E. F. Woodbury, Boston, Mass. Hot-air engine.	324,061	Aug. 11	866	244 245	32	695
Woodbury, James A., J. Merrill, G. Patten, and E. F. Woodbury, Boston, Mass. Air-engine.	324,062	Aug. 11	890	245	32	695
Woodbury, James A., J. Merrill, G. Patten, and E. F. Woodbury, Boston, Mass. Hot-air engine.	325,640	Sept. 1	561	142 143	32	1121
Woodbury, James A., Winchester, J. Merrill, G. Patten, and E. F. Woodbury, Boston, Mass. Hot-air engine.	327,748	Oct. 6	319	82	33	56
Woodbury, James A., Winchester, J. Merrill, G. Patten, and E. F. Woodbury, Boston, Mass. Air-engine.	331,359	Dec. 1	142	35,36	33	1023
Woodbury, James A., Winchester, J. Merrill, G. Patten, and E. F. Woodbury, Boston, Mass. Piston for air-pumps.	331,360	Dec. 1	143	36	33	1023
Woodbury, James A., Winchester, J. Merrill, G. Patten, and E. F. Woodbury, Boston, Mass. Air-engine.	331,361	Dec. 1	144	36 37 38	33	1024
Woodbury, Leander S., Calumet, Mich. Throttle-valve.	318,072	May 19	1539	412	31	822
Woodbury, Leander S., Calumet, Mich. Rock-drill.	319,045	June 2	135	37	31	1072
Woodbury, Leander S., Calumet, Mich. Piston-head packing for rock-drills.	319,538	June 9	772	206	31	1199
Woodbury, Leander S., Calumet, Mich. Piston-head packing for rock-drills.	330,829	June 23	2548	675	31	1538
Woodbury, Leander S., Calumet, Mich. Rock-drill.	321,670	July 7	346	92	32	60
Woodbury, Leander S., Calumet, Mich. Support for rock-drills.	321,422	Aug. 4	125	36	32	545
Woodbury, Orson E., and H. W. Storck, Madison, Wis. Weather-strip.	320,034	June 16	1458	353	31	1330
Woodbury, Seth H., Lynn, Mass. Guard for abiding set screws in pulleys.	315,204	Apr. 7	319	77	31	57
Woodbury, Walter B., assignor to F. N. Clarke, London, England. Prouncing gelatinous printing-plates.	310,486	Jan. 6	410		30	79
Woodcock, Shepherd S., Boston, Mass. Pencil-sharpener.	313,769	Aug. 4	508	143	32	618
Woodcock, William, Elizabeth, N. J. Car-wheel lathe.	316,427	Apr. 21	1997	525	31	374
Wooden, Lewis H., assignor of one-third to W. W. Wareheim, Hampstead, Md. Carriage-fender.	322,404	July 14	1326	347	32	253
Woodford, Charles W., Essex, N. Y. Machine for marking horseshoe-nails.	310,423	June 16	2020	532	31	1431
Woodhouse, Frank B., Utica, N. Y. Inkstand.	313,219	July 22	2500	666	32	480
Woodhouse, Samuel F., Philadelphia, Pa. Wood-filler.	311,935	May 26	2687		31	1040
Woodhull, Frederick W., Lincoln University, Pa. Combined caliper protractor and bevel.	315,036	Aug. 25	2228	611	32	959
Woodin, Frank E., Ewart, Mich. Chart for teaching and producing facial expressions.	331,268	Nov. 24	2467	694	33	993
Woodley, Henry J., assignor to M. Guggenheim's Sons, New York, N. Y. Box for packing and displaying embroidery.	317,604	May 12	911	223 234	31	697
Woodman, Charles. (See Tuttle, John W., assignor.)						
Woodman, Clarence S., Wichita, Kans. Car-coupling.	311,798	Feb. 3	435	118	30	430
Woodmanse, Harrison, and S. Lebkicher, Freeport, Ill.; said Lebkicher assignor to said Woodmanse. Windmill.	327,508	Sept. 29	3077	801	32	1602
Woodmanse, Frank A., Cincinnati, Ohio. Combined inkstand and calendar.	326,468	Sept. 15	1659	433	32	1336
Woodmanse, John F. (See Stuart, John A., assignor.)						
Woodrich, Rudolf E., New York, and C. Langbein, Brooklyn, N. Y. Latch.	326,258	Sept. 15	1396	363	32	1286
Woodruff, Albert M., Athens, Mich. Railway-gate.	321,167	June 30	3605	796	31	1026
Woodruff, Emma J., Chicago, Ill. Treating butter.	327,636	Oct. 6	184		33	33
Woodruff, John W., Mitchell, Dak. Ter. Washing-machine.	331,931	Dec. 8	1021	265	33	1130
Woodruff, M. N. (See Root, Charles W., assignor.)						
Woodruff, M. N., et al. (See Pearce, William, assignor.)						
Woodruff, Miller & Co. (See Howard, Arthur L., assignor.)						
Woodruff, Miller & Co. (See Miller, William K., assignor.)						
Woods, Alexander P., and W. E. Lindsay, Baltimore, Md. Green-corn-cutting machine.	315,588	Apr. 14	854	226	31	159
Woods, Arthur T., Champaign, Ill. Nut-lock.	313,149	Mar. 3	149	37	30	804
Woods, Edward G., Marcellus, N. Y. Automatic stop-motion for feeding mechanisms of carding-engines.	329,425	Oct. 27	2624	677 678	33	496
Woods, Granville T., Cincinnati, Ohio, assignor to American Bell Telephone Company, Boston, Mass. Apparatus for transmission of messages by electricity.	315,368	Apr. 7	525	134	31	95

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Woods, Marshall C., <i>et al.</i> (See Hazelrigg, Jacob, and Hood, assignors.)						
Woods, Sherwood & Co. (See Corey, George D., assignor.)						
Woods, Thomas, Nicholasville, Ky. Stone-cutter's chisel.....	329,872	Nov. 3	606	155	33	618
Woods, William A., assignor to R. C. Kirby, Santa Cruz, Cal. Bark-mill.....	329,113	Oct. 27	2161	559	33	414
Woods, William A., assignor to R. C. Kirby, Santa Cruz, Cal. Bark-mill.....	329,114	Oct. 27	2162	560	33	414
Woods, William A., assignor to J. C. Haggerty, Santa Cruz, Cal. Bark-mill.....	332,254	Dec. 22	2322	615	33	1433
Woods, William C., Alpha, Mo. Check-row planter.....	317,067	May 5	177	45	31	555
Woodward, Abel B., Nashville, Tenn. Brick-machine.....	330,953	Nov. 24	2031	549	33	915
Woodward, Abner. (See Schroyer, Stephen, assignor.)						
Woodward, Erastus, Somerville, Mass., assignor, by means assignments, to G. W. Prentice, Providence, R. I., and W. A. Boland, Lynn, Mass. Machine for attaching buttons.....	311,456	Jan. 27	1742	474	30	340
Woodward, Erastus, Somerville, assignor to W. A. Boland, Lynn, Mass., and G. W. Prentice, Providence, R. I. Button-setting machine.....	311,457	Jan. 27	1743	475	30	341
Woodward, Erastus, Somerville, Mass., assignor to Belle Patent Button Fastener Company, Kennebunk, Me. Button-fastening strip.....	314,553	Mar. 24	2047	545	30	1182
Woodward, Erastus, Somerville, and G. W. Copeland, Malden, assignors to I. M. Harmon, Boston, Mass. Tack-strip.....	312,691	Feb. 24	1679	492	30	685
Woodward, Erastus, Somerville, and T. K. Keith, Haverhill, Mass., assignors to Pentucket Variable Stitch Sewing Machine Company, Exeter, N. H. Sewing-machine.....	316,227	Apr. 28	2705	704	31	510
Woodward, Frank R., Hill, N. H. Door-securer.....	321,775	July 7	498	132	32	93
Woodward, George M., <i>et al.</i> (See Genin, John D., assignor.)						
Woodward, George W., Brooklyn, N. Y. Lamp and lamp-shade.....	320,424	June 16	2030	533	31	1431
Woodward, Mary E., Parker, Dak. Ter. Folding crib.....	320,530	June 23	2549	675	31	1538
Woodward, Theodore B., Norway, Pa. Fire-escape.....	327,976	Oct. 6	611	159	33	110
Woodworth, A. P., <i>et al.</i> (See Beam, Henry T., assignor.)						
Woodworth, Elton G., Allegheny, Pa. Saw-mill dog.....	327,637	Oct. 6	185	45	33	33
Woodworth, James A., Highland Park, Ill. Hammock-support.....	332,369	Dec. 15	1649	432	33	1307
Woodworth, James R., Nunda, N. Y. Boiler-flue cleaner.....	310,549	Jan. 6	501	138	30	96
Woodworth, Laurin D., Youngstown, Ohio. Skat-r's appliance.....	329,989	Nov. 10	767	196	33	655
Woolard, Jesse H. and J. L., Williamstown, N. C. Combined harrow and cultivator.....	315,106	Apr. 7	161	39	31	30
Woolard, Josephus L. (See Woolard, Jesse H. and J. L.)						
Woolaston, Joseph H. (See Barnes and Woolaston.)						
Woolbert, Charles W. (See Couch and Woolbert.)						
Woolbert, Edward S. (See Couch and Woolbert, assignors.)						
Woolbridge, William H., Louisville, Ky. Automatic head-support for cots.....	329,610	Nov. 3	256	66	33	554
Woolley, Albert L., <i>et al.</i> (See Coffield, Peter T., assignor.)						
Woolley, Richard, Jr. (See Lynn, John G., assignor.)						
Woolfolk, Alexander M., Helena, Mont. Ter. Device for loading and unloading wagons.....	322,881	July 21	1986	596	32	377
Wool, John, San Francisco, Cal. Propeller.....	316,592	Apr. 28	2217	583	31	421
Woolley, Edward W. and S. C., Jersey City, N. J. Car-coupling.....	321,470	July 7	88	23	32	18
Woolley, Gustav A., <i>et al.</i> (See Kock, Christian H., assignor.)						
Woolley, James K., assignor to Detroit Steel and Spring Works, Detroit, Mich. Car-spring.....	321,776	July 7	499	132	32	93
Woolley, Leonidas G., Kalamazoo, Mich. Electric motor.....	318,520	May 26	2233	597	31	957
Woolley, Leonidas G., Kalamazoo, Mich. Electric motor.....	325,641	Sept. 1	565	144	32	1122
Woolley, Leonidas G., Indianapolis, Ind., assignor to Ohio Power and Light Company, Dayton, Ohio. Electric-arc lamp.....	310,630	Jan. 13	602	166	30	121
Woolley, Leonidas G., Indianapolis, Ind., assignor to Ohio Power and Light Company, Dayton, Ohio. Focusing electric-arc lamps.....	313,039	Feb. 24	2145	583	30	766
Woolley, Leonidas G., assignor to Woolley Locomotive Electric Headlight Company, Indianapolis, Ind. Electric lamp.....	319,539	June 9	774	206	31	1200
Woolley, Leonidas G., assignor to Woolley Locomotive Electric Headlight Company, Indianapolis, Ind. Dynamo-electric machine.....	319,540	June 9	775	206	31	1200
Woolley Locomotive Electric Headlight Company. (See Woolley, Leonidas G., assignor.)						
Woolley, Richard, Jr. (See Lynn, John G., assignor.)						
Woolley, Starr C. (See Woolley, Edward W. and S. C.)						
Woollicroft, Richard, Strator, Ill. Fire-escape.....	324,971	Aug. 25	2139	585	32	943
Woolnough, Charles, Henham, county of Suffolk, England. Thrashing-machine.....	324,063	Aug. 11	893	246	32	696
Woolsey, Alanson, Madison, Mich. Road-scraper.....	312,313	Feb. 17	1172	321	30	581
Woolsey, John S., Gilroy, Cal. Pipe-vise.....	330,538	Nov. 17	1493	399	33	805
Woolsey, William W., Aiken, S. C. Sanitary ice-chest pail.....	313,463	Mar. 3	596	152	30	887
Woolster, William I., Harvard, Ill. Controlling windmills.....	321,777	July 7	500	132	32	93
Worcester, Edward J., assignor to G. Burnham and A. Goddard, Worcester, Mass. Drill-grinding attachment for drilling-machines.....	325,373	Sept. 1	198	51	32	1052
Worden, C. G. (See Cabot, John A., assignor.)						
Work, Charles L., Philadelphia, Pa., assignor to Pope Manufacturing Company, Boston, Mass. Velocipede.....	314,160	Mar. 17	1522	399	30	1076
Work, Gardner, Angola, Ind. Detachable rocker for chairs.....	315,369	Apr. 7	527	135	31	96
Work, Jeff. (See Fritchard, John T., assignor.)						
Workman, Thomas M., assignor of one-half to J. A. Bailey, Clinton, S. C. Baling-press.....	331,932	Dec. 8	1022	265	33	1190
Worley, Edward G., New York, N. Y. Door-opener.....	313,464	Mar. 3	597	153	30	887
Worley, Thomas, New York, N. Y. Stair-rod.....	321,168	June 30	3007	797	31	1628
Worley, William S., Hinesborough, Ill. Road scraper and leveler.....	330,764	Nov. 17	1763	450	33	861
Worrall, Arthur J., Bridgeport, Conn. Corset-stay.....	317,605	May 12	912	234	31	697
Worrall, James, Ordsall, Salford, county of Lancaster, England. Apparatus for washing and dyeing.....	323,095	July 28	2302	608	32	441
Worrall, Thomas H., Meredith Village, N. H. Taper and pulley-turning attachment for lathes.....	332,578	Dec. 15	1945	509	33	1257
Worrell, J. Leedom, Philadelphia, Pa. Bag-holder.....	323,617	Aug. 4	308	89	32	580
Worrell, Stanley E., Hannibal, Mo. Grain-drier.....	333,188	Dec. 29	2800	733	33	1524
Worsey, John, Chester, Pa. Suspended scaffold.....	313,465	Mar. 3	598	153	30	887
Worsey, Samuel L., Taunton, Mass., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Wire-feeding mechanism.....	320,523	June 23	2165	571	31	1464
Worswick Manufacturing Company. (See Murphy, Cornelius D., assignor.)						
Worswick, William W., Cleveland, Ohio. Journal-box.....	322,032	July 14	856	223	32	164
Worth, Albert B., Brooklyn, N. Y. Electric-arc lamp.....	324,792	Aug. 18	1691	519	32	890
Worth, John S., assignor of one-half to W. P. Worth, Coatesville, Pa. Portable speed-reducing gear.....	325,220	Aug. 25	2467	679	32	1004

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Worth, William P. (See Worth, John S., assignor.)						
Worthen, Charles H., Lawrence, Mass. Oil-can	325,642	Sept. 1	566	144	32	1122
Worthen, Charles H., Lawrence, Mass. Throttle-valve	332,855	Dec. 22	2323	615	33	1433
Worthen, William H., assignor to Guild & Garrison, Brooklyn, N. Y. Piston for compressor and other pumps and engines	311,629	Feb. 3	226	63	30	391
Worthen, William H., assignor to Guild & Garrison, Brooklyn, N. Y. Direct-acting pump-ing-engine	314,161	Mar. 17	1523	{ 399 400 }	{ 30 30 }	{ 1077 1077 }
Worthen, William H., assignor to Guild & Garrison, Brooklyn, N. Y. Compressor-cylinder	317,068	May 5	178	45	31	555
Worthen, William H., assignor to Guild & Garrison, Brooklyn, N. Y. Valve for air and gas compressors	330,539	Nov. 17	1494	{ 399 400 }	{ 33 33 }	{ 805 805 }
Worthen, William H., assignor to Guild & Garrison, Brooklyn, N. Y. Valve for air and gas compressors	333,096	Dec. 22	2668	700	33	1496
Worthington, Amasa, Chicago, Ill. Sectional steam-boiler	320,035	June 16	1459	3-4	31	1330
Worthington, Amasa, Chicago, Ill. Sectional steam-boiler	330,350	Nov. 10	1257	{ 334 335 }	{ 33 33 }	{ 753 753 }
Worthington, Charles C., et al. (See Bicknell, William A. P., assignor.)						
Worthington, Charles C., Irvington, N. Y. Safety apparatus for condensing-engines	317,069	May 5	180	45.46	31	556
Worthington, Charles C., Irvington, N. Y. Combined water-pump and air-compressor	330,540	Nov. 17	1496	400	33	805
Worthington, Charles C., Irvington, N. Y. Piston-rod packing	332,856	Dec. 22	2324	615	33	1433
Worthington, Charles C., Irvington, N. Y. Direct-acting engine	334,857	Dec. 22	2326	{ 616 617 }	{ 33 33 }	{ 1433 1433 }
Worthington, Daniel, Paterson, N. J. Clothes-tongs	327,049	Sept. 29	2479	648	32	1497
Worthington, John N., Springfield, Ohio. Shutter-worker	321,268	June 30	3130	233	31	1650
Worthington, William W., et al. (See White, Luther N., assignor.)						
Wostenholm, George, Jeffersonville, Ill., assignor of one-half to J. J. Fischer, St. Louis, Mo. Washing-machine	330,360	Nov. 10	1260	335	33	754
Wotapek, Bertha, administratrix. (See Wotapek, Joseph.)						
Wotapek, Joseph, deceased; B. Wotapek, New York, N. Y., administratrix. Exhaust-nozzle for locomotives	310,768	Jan. 13	782	211	30	154
Wotapek, Joseph, deceased; B. Wotapek, New York, N. Y., administratrix. Exhaust-nozzle for locomotives	310,769	Jan. 13	784	211	30	154
Woven Cord Furniture Company. (See Springer, James, assignor.)						
Wragg, George, Sharpsburg, Pa. Potato-digger	318,073	May 19	1540	412	31	832
Wray, James L., Waukegan, Ill. Composition for the manufacture of artificial stone	312,057	Feb. 10	804	30	506	
Wren, Patrick, Franklin, Mass. Mold for making rubber boots and shoes	311,458	Jan. 27	1744	475	30	341
Wren, William C., assignor to W. C. Benjamin, Brooklyn, N. Y. Apparatus for generating cold artificially	319,434	June 2	619	168	31	1166
Wrench, Thomas, Liverpool, county of Lancaster, England. Umbrella, parasol, or sun-shade	323,381	July 28	2703	720	32	515
Wrenn, Aurelius, et al. (See Whitehurst, Robert W., assignor.)						
Wrenn, McDonald L., et al. (See Whitehurst, Robert W., assignor.)						
Wright, Arabella G., et al. (See Hohenstein, Karl A., assignor.)						
Wright, Augustin W., et al. (See Price, Joshua C., assignor.)						
Wright, Benjamin F., Oneida, Kans. Steam-boiler	321,929	July 7	713	186	32	129
Wright, Bushnell A., Pasadena, Cal. Fruit-drier	325,777	Sept. 8	758	190	32	1162
Wright, Charles A., Philadelphia, Pa. Card-beveling machine	313,639	Mar. 10	815	213	30	938
Wright, Charles A., Philadelphia, Pa. Card-beveling machine	323,483	Aug. 4	126	36	32	545
Wright, Charles D., and C. A. Fisher, Petersburg, Ill.; said Fisher assignor of part to said Wright. Automatic shunt for telephone-lines	313,640	Mar. 10	817	214	30	938
Wright, Charles K. (See Johnson and Wright.)						
Wright, Christopher C., Elkton, Md. Thill-coupling	315,455	Apr. 7	653	168	31	116
Wright, Christopher C., assignor of one-half to P. C. Strickland, Elkton, Md. Thill-coupling	317,070	May 5	182	46	31	556
Wright, E. Howard, assignor of one-half to C. T. Howard and J. W. Duxbury, Providence, R. I. Electric gas-lighter	316,428	Apr. 21	1998	525	31	374
Wright, E. Howard, assignor of one-half to C. T. Howard and J. W. Duxbury, Providence, R. I. Electric gas-lighter	316,429	Apr. 21	1998	525	31	374
Wright, Edgar. (See Rivers, William H., assignor.)						
Wright, Edward, assignor to Wright Machine Company, Worcester, Mass. Governor-valve	324,446	Aug. 18	1419	367	32	808
Wright, Edwin, Leesburg, Va. Fastening device	325,221	Aug. 25	2468	679	32	1004
Wright, Elias M., Buffalo, N. Y. Lamp	331,933	Dec. 8	1024	266	33	1191
Wright, Frank M., Palmyra, N. Y. Bosom-board	314,211	Mar. 17	1563	419	30	1087
Wright, Frederick K., C. W. Gage, and W. F. Hitchcock, Homer, N. Y. Positive shuttle-motion for looms	320,902	June 23	2650	703	31	1556
Wright, George W., Leavenworth, Ind. Fastening for double doors	333,093	Dec. 22	2664	699	33	1495
Wright, Herman. (See Steinebach and Wright.)						
Wright, Hiram N., Indianapolis, Ind. Railway frog, crossing, &c	325,778	Sept. 8	760	190	32	1162
Wright, Hugh, New Lisbon, Ohio. Portable saw-mill	332,690	Dec. 15	2101	{ 552 553 553 }	{ 33 33 33 }	{ 1385 1385 1385 }
Wright, Hugh, New Lisbon, Ohio. Circular-saw mill	332,691	Dec. 15	2102	{ 554 555 }	{ 33 33 }	{ 1385 1385 }
Wright, Hugh, New Lisbon, Ohio. Transmitting motion	332,692	Dec. 15	2104	555	33	1386
Wright, James E. (See Guiley, Jacob H., assignor.)						
Wright, James E., New York, N. Y. Remedy for dyspepsia	314,212	Mar. 17	1563	419	30	1087
Wright, John A. (See Thomas, George W., assignor.)						
Wright, John A., Keene, N. H. Fence-post	321,564	July 7	217	57	32	43
Wright, John E., New York, N. Y., and J. H. Longstreet, Hoboken, N. J. Printing-tele-graph	311,218	Jan. 27	1410	385	30	290
Wright, John H., Bridgeport, Conn. Feed-actuating mechanism	312,058	Feb. 10	805	220	30	506
Wright, John H., Bridgeport, Conn. Clutch-operating mechanism	312,059	Feb. 10	808	{ 220 221 }	{ 30 30 }	{ 506 506 }
Wright, John H., Bridgeport, Conn. Shipping device for metal planing and shaping machines	312,060	Feb. 10	810	221	30	506
Wright, John P., Redhill, county of Surrey, England. Collapsible or folding boat	325,374	Sept. 1	199	51	32	1052
Wright, John P., Des Moines, Iowa. Washing-machine	326,926	Sept. 22	2315	606	32	1461
Wright, Lyman C., Shanesville, Ohio. Steam-washer	319,656	June 9	931	246	31	1228
Wright Machine Company. (See Randall, Nelson L., assignor.)						
Wright Machine Company. (See Wright, Edward, assignor.)						
Wright, Marcus L., Newton, N. J. Device for preventing accidents in elevators	313,842	Mar. 10	1096	{ 284 285 }	{ 30 30 }	{ 988 988 }
Wright, Marcus L., Newton, N. J. Safety device for elevators	317,268	May 5	461	115	31	608

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Wright, Morris S. (See Carpenter and Wright.)						
Wright, Morris S., assignor of one-half to A. P. Carpenter, Worcester, Mass. Stop-action for organs	310,939	Jan. 6	97	26	30	21
Wright, Oliver C. (See Wheeler, William C., assignor.)						
Wright, Robert, Philadelphia, Pa. Spinning-frame	318,936	May 26	2687	712	31	1040
Wright, Robert, Redditch, county of Worcester, England. Fish-hook	319,655	June 9	930	246	31	1228
Wright, Thomas, Camden, N. J. Grip attachment for cable-motor cars	329,990	Nov. 10	768	{ 196 197 }	33	655
Wright, W. E., et al. (See Brosnan, Cornelius J., assignor.)						
Wright, William, New York, N. Y. Feeding air to furnaces	320,903	June 23	2651	704	31	1557
Wright, William A., Centerton, N. J. Stone-cutting machine	333,486	Dec. 29	8132	819	33	1523
Wright, William H., Rochester, N. Y. Insulator for electric wires	317,479	May 5	748	189	31	638
Wrightman, Mima, Harper, Kans. Ventilated flour-chest	316,593	Apr. 28	2218	{ 583 584 }	31	421
Wroth, Alfred B., assignor to C. Dietrich, Omaha, Nebr. Ice-chest for beer	314,984	Mar. 31	2654	702	30	1319
Wuerpel, Morris, St. Louis, Mo. Railway-signal	330,859	Nov. 17	1905	515	33	883
Wuerpel, Morris, St. Louis, Mo. Railway-signal	330,860	Nov. 17	1906	515	33	884
Wuerpel, Morris, St. Louis, Mo. Valve	330,861	Nov. 17	1907	516	33	884
Wuerpel, Morris, St. Louis, Mo. Machinery for operating railway-switches	330,862	Nov. 17	1908	516	33	885
Wuesthoff, Eugene. (See Brauning, George M., assignor.)						
Wuillemin, David, Courgeand, Fribourg, Switzerland. Lace and making the same	315,589	Apr. 14	759	226	31	159
Wulfert, Friedrich, St. Charles, Mo. Grain screen or separator	327,050	Sept. 20	2490	648	32	1497
Wulff, Adolph, assignor of one-half to A. Ramsey, St. Paul, Minn. Automatic railway-switch	314,554	Mar. 24	2048	546	30	1182
Wulff, Henry F., San Antonio, Tex. Trunk	327,749	Oct. 6	321	{ 82 83 }	33	56
Wunderlick, Gennaro, assignor of one-half to C. A. Widmayer, Philadelphia, Pa. Portable musket-rack	321,930	July 7	715	186	32	123
Wünsch, Christian, Camden, N. J. Ice-velocipede	311,692	Feb. 3	518	140	30	445
Wurm, Josef, New York, N. Y. Lock and latch combined	315,456	Apr. 7	654	169	31	116
Wurster, Casimir, New York, N. Y. Apparatus for moistening and purifying air	329,115	Oct. 27	2164	500	33	414
Wurster, Christoph G., Hudson, N. Y. Hydraulic motor	330,863	Nov. 17	1909	{ 516 517 }	33	885
Wuth, W. A. Otto, Pittsburg, Pa. Removing silicon from wrought-iron	311,150	Jan. 20	1318	.....	30	257
Wyatt, Matthew T., Quebec, Quebec, assignor of one-half to W. F. Ramsay, Montreal, Canada. Pipe-reamer	327,636	Oct. 6	186	46	33	33
Wyatt, Matthew T., Quebec, assignor of one-half to W. F. Ramsay, Montreal, Canada. Tobacco-pipe	329,873	Nov. 3	607	155	33	618
Wyatt, Matthew T., Quebec, assignor of one-half to W. F. Ramsay, Montreal, Canada. Grappling or holding device	331,362	Dec. 1	148	38	33	1024
Wycho, John S., et al. (See Brown, William A., assignor.)						
Wyker, William. (See Drumm and Wyker.)						
Wylly, William P., Patterson, Ga. Guide-rail clamp	323,895	Aug. 4	661	186	32	648
Wyman, Horace, Worcester, Mass. Pattern-chain for looms	320,449	June 16	2064	542	31	1438
Wyman, Horace W., and L. F. Gordon, Worcester, Mass. Die for making shuttle binders	328,994	Oct. 27	1965	516	33	364
Wyman, Horace W., and L. F. Gordon, Worcester, Mass. Roll for making shuttle-box binders	330,954	Nov. 24	2035	550	33	916
Wyman, Richard H., Evanston, Ill. Railway-car cover	312,785	Feb. 24	1807	497	30	708
Wyman, Richard H., Evanston, Ill. Car-cover	312,786	Feb. 24	1808	497	30	708
Wyman, Richard H., Evanston, Ill. Guard for freight-car covers	312,787	Feb. 24	1810	497	30	708
Wyman, Richard H., Evanston, Ill. Car-cover	310,944	June 9	1332	351	31	1290
Wyman, Richard H., Evanston, Ill. Index	323,464	Aug. 4	128	37	32	545
Wyman, Richard H., Evanston, Ill. Railway-car. (Reissue)	10,654	Oct. 20	1853	483	33	354
Wyman, William H., Oshkosh, Wis. Machine for straightening match-splints	322,145	July 14	1012	263	32	192
Wynkoop, Jehiel E., Philadelphia, Pa. Dust-pan	325,304	Sept. 1	101	28	32	1034
Wynkoop, John E., Pottsville, Pa. Making and composition for pavements, &c	325,718	Sept. 8	679	.....	33	1147
Wynn, George S., Huntville, Ohio. Nut-lock	324,347	Aug. 11	1287	348	32	770
Wynne, Frank, Westminster, England. Electrical apparatus for the propulsion of vehicles	324,447	Aug. 18	1420	388	32	802
Wynne, George F., Minera, near Wrexham, county of Denbigh, assignor to T. R. Jordan and R. E. Commons, London, England. Rock-drill	314,213	Mar. 17	1584	419	30	1068
Wynne, Henry W., Dominion City, Manitoba, Canada. Gang-plow	326,534	Sept. 15	1744	455	32	1353
Wynne, J. A., et al. (See Beaver, George W., assignor.)						
Wysong, Ann A., Baltimore, Md. Ironing board and table	316,928	Apr. 22	2709	706	31	511
Wysong, Herschel V., Winchester, Ind. Nut-lock	326,927	Sept. 23	2316	606	32	1461
Xanten, F. A., et al. (See Kock, Christian H., assignor.)						
Xiques, Frank M., Arcata, Cal. Newspaper-file	332,769	Dec. 22	2217	{ 584 585 }	33	1414
Yagn, Nicholas, St. Petersburg, Russia. Hydraulic motor	310,770	Jan. 13	785	212	30	154
Yale, Charles O., Rome, N. Y. Skate	331,412	June 30	3316	884	31	1626
Yale, James H. (See France, Yale, and Benry.)						
Yale & Towne Manufacturing Company. (See Cartwright, Robert, assignor.)						
Yale & Towne Manufacturing Company. (See Stockwell, Emory, assignor.)						
Yale & Towne Manufacturing Company. (See Taylor, Warren H., assignor.)						
Yale & Towne Manufacturing Company. (See Towne, Henry R., assignor.)						
Yale & Towne Manufacturing Company. (See Weston, Thomas A., assignor.)						
Yancey, Leo, Cincinnati, Ohio. Bathing-cabinet	328,628	Oct. 20	1487	387	33	925
Yanker, Casper. (See Orlikowski and Yanker.)						
Yapp, Thomas, Cleveland, Ohio. Can	317,957	May 19	1377	370	31	785
Yarbrough, Ezekel J., and J. M. Kyker, Burns City, Tex. Animal-power	321,876	July 7	646	167	32	117
Yardley, J. Martin, et al. (See Wilson and Palmer, assignors.)						
Yarnall, John T. and N. R., Phoenixville, Pa. Door and shutter fastener	327,373	Sept. 29	2909	750	32	1572
Yarnall, Nathan R. (See Yarnall, John T. and N. R.)						
Yaryan, Homer T., Toledo, Ohio. Manufacture of linseed and other oils	312,418	Feb. 17	1311	362	30	608
Yates, Edgar, Cape Elizabeth, Me. Feeding attachment for printing-presses	322,670	July 21	1690	450	32	325
Yates, Saml. I., Muscookee, Indian Ter. Clamp for soldering eaves-troughs	326,372	Sept. 15	1548	402	32	1316
Yattaw, Sydney W., Mineville, N. Y. Barrel-tap	315,370	Apr. 7	528	135	31	96
Yeager, William D., Douglasville, Ga. Steam road-worker	321,778	July 7	501	{ 132 133 }	32	94
Yeakel, Abraham M., Perkasio, Pa. Watch-case pendant	317,914	May 12	1320	354	31	774
Yeakle, James B., Baltimore, Md. Automatic circuit-breaker for burglar-alarms	333,130	Dec. 8	1317	342	33	1241
Yeackick, Joseph P., Toledo, Ohio. Gravity-railway	316,512	Apr. 28	2118	557	31	402
Yeiser, Henry C., assignor to Globe Files Company, Cincinnati, Ohio. Paper-clip	314,769	Mar. 31	2359	624	30	1267
Yeiser, John C., Junction City, Ky. Car-coupling	316,213	Apr. 21	1707	448	31	323
Yellott, George, Towson, Md. Centrifugal pump	312,783	Feb. 24	1811	498	30	708

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Yelmini, Victor P., Sutter Creek, Cal. Gold-saving apparatus	319,657	June 9	931	246	31	1223
Yeoman, Edward, Chicago, Ill. Sofa-bed	324,265	Aug. 11	1099	296	32	735
Yeoman, David S., Brooklyn, N. Y. Reversible cork sole	312,544	Feb. 17	1497	408	30	643
Yerdon, William, Fort Plain, N. Y. Bag-holder	314,770	Mar. 31	2360	925	30	1267
Yerkes, Edward, East Douglass, Mass., and C. Denn, Philadelphia, Pa. Machine for making axes	317,320	May 5	533	135	31	621
Yentzer, Enoch S., assignor of one-half to C. S. Cullen and R. C. Hitt, Ottawa, Ill. Horse hay-fork	327,639	Oct. 6	186	46	33	33
Yingling & Brother. (See Boatman, Isaac W., assignor.)						
Yingling, George S., Tiffin, Ohio. Compound for treating tobacco	332,176	Dec. 8	1381		33	1252
Yoch, Benhard, St. Louis, Mo. Mining-machine	318,337	May 19	1888	508	31	887
Yocom, James, Jr., Philadelphia, Pa. Divided casting	317,695	May 12	1030	267	31	718
Yocom, James, Jr., Philadelphia, Pa. Lubricator	320,109	June 16	1564	412	31	1348
Yocom, James, Jr., Philadelphia, Pa. Shaft-coupling	333,376	Dec. 29	3056	797	33	1570
Yohe, George N., et al. (See Pentz, Levi, assignor.)						
Yonge, William W., Chattanooga, Tenn. Combined knife, eraser, letter-opener, &c.	314,507	Mar. 24	1992	531	30	1172
Yonley, Harvey W., Denver, Colo. Register for type-writers	329,116	Oct. 27	2165	560	33	414
York, Charles F. (See Marshall and York.)						
York, Levi D., Portsmouth, Ohio. Machine for straightening metal bars, &c.	316,102	Apr. 21	1562	407	31	296
York, Levi D., Portsmouth, Ohio. Roller-skate	320,993	June 30	2778	738	31	1586
Yost, George W., Bellaire, Ohio. Finishing the mouths of glass-bottles, &c.	317,269	May 5	462	116	31	606
Yost, George W. N., New York, N. Y., assignor, by mesne assignments, to American Writing Machine Company of New York. Type-writing machine	313,973	Mar. 17	12-5	335	30	1032
Yost, Joseph L., Wallingford, Conn. Bicycle	310,858	Jan. 13	887	240	30	174
Yost, Joseph L., Wallingford, Conn. Vehicle-wheel	312,692	Feb. 24	1679	463	30	665
Yost, Richard D., Glencoe, Md. Sieve-operating device	314,904	Mar. 31	2542	672	30	1299
Yothers, Joseph W. (See Yothers, Walter S. and J. W.)						
Yothers, Walter S. and J. W., Karthaus, Pa. Bag-holder for trucks	327,750	Oct. 6	323	83	33	57
Young, Albert A., Boston, Mass. Life-saving mattress	325,227	Aug. 25	2477	681	32	1006
Young, Albert B., et al. (See Kayser, Adolf, assignor.)						
Young, Alden M., assignor of one-fourth to D. S. Plume, Waterbury, Conn. Electric battery	311,630	Feb. 3	227	64	30	391
Young, Alexander T., East China, Mich. Stove	323,250	July 28	2511	686	32	481
Young, Alfred, et al. (See Mitchell, Barnard W., assignor.)						
Young, Augustus R., Stillwater, Minn. Capstan	325,143	Aug. 25	2360	650	32	984
Young, Benjamin, Milwaukee, Wis. Apparatus for treating wheels with oil	323,015	July 28	2184	580	32	420
Young, Charles F. (See Scharpf, Frederic, assignor.)						
Young, Charles M., assignor of one-half to Dennett Harvesting Machine Company, (limited), Milwaukee, Wis. Grain-blender	322,770	July 21	1827	483	32	348
Young, Charles W., Syracuse, N. Y. Apparatus for filling packages	326,896	Sept. 22	2179	568	32	1436
Young, Cornelius, assignor to Howland & Co., Sandy Hill, N. Y. Stuff-regulator for paper-machines	312,314	Feb. 17	1174	322	30	582
Young, Daniel C., Hanover, Kans. Educational device for the illustration of longitude and time	328,620	Oct. 20	1429	388	33	285
Young, Daniel M., St. Louis, Mo. Comb attachment for shears	332,030	Dec. 8	1166	304	33	1215
Young, David, Stockton, Cal. Traveling thrasher	311,705	Feb. 3	320	88	30	409
Young, David, Stockton, Cal. Traveling thrasher	326,617	Sept. 22	1862	488	32	1379
Young, David, Stockton, Cal. Harvester	330,541	Nov. 17	1498	400	33	805
Young, David T., Davenport, Iowa. Hook-and-ladder truck	315,090	Apr. 14	985	238	31	185
Young, Edmund L., and L. Dyer, Millbridge, Me. Machine for making wire-solder	312,308	Feb. 17	1563	426	30	635
Young, Edward B., Mansfield, Mo. Folding crate	324,029	Aug. 18	1674	462	32	849
Young, Edward B., and F. E. P. Pool, Mansfield, Mo. Mail-bag	318,676	May 26	2339	624	31	978
Young, Francis H., and F. I. Davis, Port Morris, N. J. Automatic time-signal for railways, &c.	311,706	Feb. 3	321	88	30	409
Young, Francis M., Chicago, Ill. Making whisky	314,096	Mar. 17	1440	378	30	1062
Young, Francis M., Chicago, Ill. Making whisky	321,169	June 30	3008		31	1622
Young, George W. (See Tupper, John B., Jr., assignor.)						
Young, Harlan P., assignor of six-ninths to C. R. Kimball, A. Wheeler, A. H. Smith, F. M. Merrill, F. W. Stevens, and A. W. Moore, Lowell, Mass. Latch-lock	315,205	Apr. 7	319	78	31	58
Young, Henry, et al. (See Ellinwood, Augustus E., assignor.)						
Young, Hugh, New York, N. Y. Machine for scouring and polishing stone	314,905	Mar. 31	2543	672	30	1299
Young, Hugh, New York, N. Y. Transmitting power to cranes and other hoisting apparatus	314,906	Mar. 31	2544	673	30	1299
Young, Jackson B., Sioux Falls, Dak. Ter. Time-lock	314,222	Mar. 24	1683	448	30	1116
Young, Jackson B., Sioux Falls, Dak. Ter. Time-lock	314,223	Mar. 24	1686	449	30	1116
Young, James H., New York, N. Y. Apparatus for impregnating wood	329,799	Nov. 3	497	126	33	599
Young, Jesse R., assignor of one-half to C. L. Aldrich, Lincoln, Nebr. Trace-carrier	328,630	Oct. 20	1490	388	33	286
Young, John. (See Hall and Young.)						
Young, John, Wheeling, W. Va. Nail	316,717	Apr. 28	2404	626	31	455
Young, John, Wheeling, W. Va. Making cut nails	318,845	May 26	2573	685	31	1018
Young, John, assignor to Watts, Campbell Company, Newark, N. J. Cut-off gear for steam-engines	330,361	Nov. 10	1261	335	33	754
Young, John, assignor to Western Electric Company, Chicago, Ill. Fire-alarm signal-box	313,040	Feb. 24	2146	524	30	768
Young, John, assignor to Western Electric Company, Chicago, Ill. Apparatus for suspending arc lamps	322,515	July 21	1500	394	32	228
Young, John E., assignor of one-third to H. Letterhaus, Bridgeport, Conn. Lock	325,305	Sept. 1	101	29	32	1034
Young, Joseph M., Bean's Station, Tenn. Sulky-plow	325,719	Sept. 8	681	170	32	1147
Young, Lewis T., Philadelphia, Pa. Attachment for photographic cameras	317,915	May 12	1321	354	31	774
Young, Loy B., assignor to himself and S. O. Lewis, Newport, Ark. Saw-swage	312,061	Feb. 10	811	221	30	507
Young, McClintock, Frederick, Md. Making paper boxes	322,963	Dec. 22	2499	660	33	1466
Young, Oliver B., assignor of one-half to W. T. Blennman, Detroit, Mich. Combined mail-pouch lock and cord-case	314,985	Mar. 31	2655	702	30	1319
Young, Oresta W., Chicago, Ill. Composition for cleaning and polishing gold, silver, &c.	327,426	Sept. 29	2978		32	1583
Young, Robert C., Dun, Kans. Spring-bed	331,599	Dec. 1	534	130	33	1091
Young, Samuel H., assignor to himself and T. F. Kane, Bankston, Iowa. Corn-harvester	323,618	Aug. 4	310	89, 90	32	580
Young, Sylvester W. (See Cowell, Julius J., assignor.)						
Young, Thomas, Bradford, Pa. Self-locking key	321,565	July 7	218	57	32	43

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Young, Thomas, G. Durris, and J. Pettigrew, Dinside, county of Kincardine, Scotland. Treating vegetable substances for making paper-pulp.	392,692	July 21	1993		32	379
Young, Walter F., assignor of one-half to C. M. Strebbridge, Merrill, Wis. Device for detachably securing decks, seats, &c., to floors.	396,470	Sept. 15	1661	434	32	1336
Young, Wesley, Dayton, Ohio. Implement for driving and clinching staples.	317,480	May 5	749	189	31	658
Young, Wesley, Dayton, Ohio. Hedge-fence.	317,006	May 12	913	274	31	697
Young, William, Easton, Pa. Water-gage.	333,046	Dec. 22	2598	681	33	1483
Young, William C., Paterson, N. J. Clothes-line support.	325,470	Sept. 1	339	82	32	1080
Young, William D., assignor to Shoenberger & Co., Pittsburg, Pa. Horseshoe-machine.	315,206	Apr. 7	321	72	31	58
Youngpeter, Michael (See Hummer, Adam, assignor.)						
Youngs, Fred. E., Allegheny, Pa. Permanent pipe-coupling.	326,469	Sept. 15	1660	433	32	1336
Youngs, Fred. E., Allegheny, Pa. Pipe coupling.	327,215	Sept. 29	2702	703	32	1538
Youngs, Quinten M., Utica, N. Y. Rein-holder.	314,400	Mar. 24	1850	493	30	1148
Yount, Andrew, Denver, Ind. Corn-planter.	332,460	Dec. 15	1777	465	33	1328
Yaaba y Lazarte, Hilario, and E. P. Larée, Santa Clara, Cuba. Heater and evaporator for sirup and other liquids.	311,790	Feb. 3	437	118	30	430
Yule, George. (See Cocker and Yule.)						
Yule, George. (See Tweedy and Yule.)						
Yule, George, Newark, N. J., assignor, by mesne assignments, to Hat Curling Machine Company, Danbury, Conn. Hat-machine clutch.	315,207	Apr. 7	324	78, 79	31	58
Yule, George, Newark, N. J., assignor, by mesne assignments, to Hat Curling Machine Company, Danbury, Conn. Hat-machine scale.	315,208	Apr. 7	325	79	31	59
Yule, George, Newark, N. J., assignor, by mesne assignments, to Hat Curling Machine Company, Danbury, Conn. Hat-machine tool-vibrator.	315,209	Apr. 7	330	80	31	59
Yunck, John A., Sharon Hill, and J. Stuetz, assignors to H. C. Terry, trustee, Philadelphia, Pa. Incandescent lamp.	320,739	June 23	2430	647	31	1518
Zack, Marshall, and F. Geraghty, Streator, Ill. Silt for roller-skates.	327,374	Sept. 29	2910	759	32	1573
Zachringer, William, New Orleans, La. Fare-box.	322,236	July 14	1118	291	32	213
Zagelmeyer, Louis, West Bay City, Mich. Safety gas-burner.	322,770	Dec. 22	2218	585	31	1414
Zahn, Henry, Chicago, Ill. Composition for soap.	311,555	Feb. 3	136		30	374
Zalinski, Edmund L., U. S. Army. Electric shell-fuse.	313,150	Mar. 3	150	37	30	804
Zaraki, Ian. (See Sporny and Zaraki.)						
Zaruba, Jaroslav. (See Gard and Zaruba.)						
Zech, August F. (See Zech, Jacob, assignor.)						
Zech, Frederick, San Francisco, Cal. Piano-action.	330,080	Nov. 10	897	232	33	682
Zech, Jacob, assignor to A. F. Zech, San Francisco, Cal. Piano-action.	333,047	Dec. 22	2599	681	33	1483
Zeck, John, Canby, Oreg. Plow.	323,770	Aug. 4	510	143	32	618
Zehnder, Louis, Basle, Switzerland. Watchman's time-detector.	324,972	Aug. 25	2140	585	32	944
Zeigler, Charles F., and J. D. Antley, St. Matthew's, S. C. Combined seed-planter and fertilizer-distributer.	331,600	Dec. 1	535	130	33	1091
Zeigler, Daniel G., assignor of one-half to R. Copes, Orangeburg, S. C. Hoeing-machine.	330,765	Nov. 17	1783	480	33	861
Zeigler, George W., Washington, D. C. Adjustable clamping device.	312,419	Feb. 17	1312	362	30	609
Zeigler, George W., Washington, D. C. Removable log fastening and clamping attachment.	317,270	May 5	463	116	31	608
Zeigler, George W., Washington, D. C. Combined trestle socket and clamp.	318,154	May 19	1642	439	31	842
Zeigler, George W., Washington, D. C. Self-adjusting clamping device.	318,338	May 19	1889	569	31	887
Zeigler, George W., Washington, D. C. Socket-clamp for scaffolding, &c.	327,427	Sept. 20	2979	778	32	1585
Zellin, John H., Philadelphia, Pa. Key.	312,545	Feb. 17	1497	408	30	642
Zeis, John W., Tiffin, Ohio. Ditching-machine.	317,461	May 5	751	190	31	650
Zeitz, Ernest. (See Kaul, Pius and C., assignors.)						
Zella, Polly A. (See Smith and Zella.)						
Zell, Robert R., assignor to Safety Steam Generator Company, New York, N. Y. Header for steam-boilers.	321,330	June 30	3202	854	31	1665
Zell, Robert R., assignor to Safety Steam Generator Company, New York, N. Y. Arch for furnace-doors.	322,883	July 21	1994	527	32	379
Zell, Robert R., Brooklyn, assignor to Safety Steam Generator Company, New York, N. Y. Header for sectional boilers.	327,850	Oct. 6	446	116	33	78
Zeller, Adolph. (See Vogel, William, assignor.)						
Zeller, J. J. A. (See Swift and Phelps, assignors.)						
Zeller, Louis, Massillon, Ohio. Steam-boiler.	316,214	Apr. 21	1708	448	31	323
Zeller, Melancthon E., Bluffton, Ohio. Buckle.	318,074	May 19	1541	413	31	822
Zeller, Melancthon E., Bluffton, Ohio. Buckle.	331,176	Nov. 24	2524	630	33	969
Zellers, Mahlon M., Kent, Ohio. Whip-socket.	324,064	Aug. 11	894	246	32	696
Zellers, Mahlon M., and J. B. Miller, Kent, Ohio; said Zellers assignor to said Miller. Washer-making machine.	220,320	June 16	1874	492	31	1403
Zellner, William, Paterson, N. J. Steam-generator.	313,270	Mar. 3	340	84	30	838
Zeltmacher, George E., Brooklyn, N. Y. Belt-clasp.	321,170	June 30	3609	797	31	1628
Zengel, Joseph, Quincy, Ill. Machine for making fences.	326,007	Sept. 8	1043	285	32	1215
Zengerle, Joseph, Ansonia, Conn. Machine for covering wire with metal.	320,321	June 16	1877	493	31	1403
Zerbe, James S., Hartwell, Ohio. Hand fire-extinguisher.	320,425	June 16	2031	533	31	1432
Zerr, William B., Reading, Pa. Car-coupling.	319,541	June 9	775	206	31	1200
Ziegenfus, Charles, et al. (See Kratzer, Wayne, assignor.)						
Ziegler, Frank P., assignor to G. Ziegler, Milwaukee, Wis. Confection.	330,650	Nov. 17	1637	440	33	835
Ziegler, George. (See Ziegler, Frank P., assignor.)						
Ziegler, Henry, Basle, Switzerland, assignor to Badische Anilin and Soda Fabrik, Mannheim, Germany. Coloring-matter from phenylhydrazine.	324,630	Aug. 18	1675		32	849
Ziegler, John T., Santa Cruz, Cal. Sulky-plow.	327,640	Oct. 6	187	46	33	34
Ziegler, Oscar J., assignor to Stover Manufacturing Company, Freeport, Ill. Truing castings.	312,693	Feb. 24	1680	463	30	685
Zier, Michael, Sr. (See Bremaker and Zier.)						
Zimmer, Conrad, Frankfort-on-the-Main, Prussia, Germany. Preparing and purifying wort for brewing purposes.	315,876	Apr. 14	1243	324	31	232
Zimmer, Conrad, Frankfort-on-the-Main, assignor to Actien Gesellschaft zur Einführung Technischer Neuheiten, Berlin, Germany. Brewing beer.	330,184	Nov. 10	1027	268	33	709
Zimmerling, August F., Milwaukee, Wis. Gas-fluid.	313,795	Mar. 10	1033		30	978
Zimmerling, August F., Milwaukee, Wis. Heating lamp.	332,370	Dec. 15	1650	432	33	1707
Zimmerling, Charles, assignor to S. S. Myers, Philadelphia, Pa. Ironing-tablet.	327,913	Oct. 6	529	137	33	95
Zimmerman, Aaron, and J. Q. Shipley, Dakota, Ind. Fence.	324,741	Aug. 18	1817	502	32	877
Zimmerman, Casper, Owatonna, Minn. Wagon-seat.	314,410	Mar. 24	1851	493	30	1148

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Zimmerman, Casper, Owatonna, Minn. Trunk	320,740	June 23	2440	647	31	1518
Zimmerman, Christian H., assignor of one-half to C. W. Weiser, Burbank, Ohio. Car-coupling	318,439	May 19	2020	544	31	912
Zimmerman, George F. S., assignor of one-half to R. R. Walling, Frederick, Md. Shutter-bower	326,373	Sept. 15	1549	402	32	1316
Zimmerman, John E., assignor to Springfield Brass Company, Springfield, Ohio. Cover for oil-cups	314,638	Mar. 31	2106	575	30	1230
Zimmerman, Lorenzo, Sherwood, Mich. Stable-cleaner	318,406	May 19	1079	532	31	904
Zimmermann, Emily L. (See De Ledochowski, Zénone N., assignor.)						
Zink, George, Clear Spring, Md. Operating device for swinging gates	325,144	Aug. 25	2362	651	32	965
Zink, Harry S., assignor of two-thirds to R. Reed and H. S. Rublman, Sacramento, Cal. Automatic fanning-mill	332,470	Dec. 15	1778	465	33	1320
Zipf, Carl G., Cleveland, Ohio. Damper	330,955	Nov. 24	2036	550	33	916
Zipfel, Barnhard. (See Hoagland and Zipfel.)						
Zipf, George H., St. Joseph, Mo. Culinary vessel	315,929	Apr. 14	1404	364	31	200
Zipprich, Charles J., et al. (See Kittler, Julius W., assignor.)						
Zitlow, George, Glencoe, Minn. Combined back-strap and trace-buckle	317,696	May 12	1030	267	31	719
Zitzman, Edward H. (See Brill and Zitzman.)						
Zitzman, George, Bennett, Pa. Weather-strip	319,162	June 2	279	73	31	1099
Ziurek, Otto, assignor to O. B. E. Hiller, Berlin, Germany. Water-proof composition for felt, paper, &c.	323,016	July 28	2185		32	421
Zorkowski, Abraham L., New York, N. Y., assignor to I. Newman, New Haven, Conn. Combined corset and garment supporter	315,990	Apr. 14	1405	364	31	200
Zorkowski, Abraham L., New York, N. Y., assignor to I. Newman, New Haven, Conn. Combined corset and garment supporter	317,958	May 12	1378	370	31	785
Zorn, John. (See Unger, Anton J., assignor.)						
Zornow, Charles, Brooklyn, N. Y., assignor of one-half to C. Brand. Mirror-stand	312,062	Feb. 10	812	221	30	507
Zschetzschingck, Hermann, Leipsic, Germany. Gas-stove	315,210	Apr. 7	333	80	31	60
Zucker & Levett Chemical Company. (See Haas, Harry L., assignor.)						
Zunghans, Gebrüder. (See Hahlweg, Carl, assignor.)						
Zuydhoek, Harmanus, Brooklyn, N. Y. Toy	320,202	June 16	1677	447	31	1360
Zwarts, John H., et al. (See Eyermann, Christian H., assignor.)	324,910	Aug. 25	2062	564	32	922
Zwiel, Francis S., Greenville, N. J. Feed-water heater	320,110	June 16	1564	413	31	1348
Zwillinger, Abraham, Vienna, Austria-Hungary. Apparatus for carbonizing bones, &c.						

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			Volume.	Page.
Adams, Benjamin F., Brooklyn, N. Y. Bonbonnière.....	16,085	May 12	31	668
Adams, Dewey F., Providence, R. I. Badge or breastpin.....	15,756	Feb. 3	30	348
Adams, George Q., Quincy, Ill. Fence-picket.....	{ 15,981 } 15,982	Mar. 24	30	1097
Adams, Peter, Jr. (See Shepard and Adams.)				
Alexander, James H., Philadelphia, Pa. Bucket-ear.....	16,348	Oct. 27	33	359
Alexander, James H., assignor to T. Devlin & Co., Philadelphia, Pa. Plate for carriage-steps.....	{ 16,194 } 16,195	Aug. 11	32	655
Alexander, James H., assignor to T. Devlin & Co., Philadelphia, Pa. Plate for carriage-steps.....	{ 16,322 } 16,323	Sept. 8	32	1128
Alpaugh, Spencer M., et al. (See May, Charles A., assignor.)				
Alpaugh, Spencer M., et al. (See Wood, William, assignor.)				
Ams, Max, New York, N. Y. Cruet.....	16,066	May 5	31	521
Andrews, Robert D., Boston, Mass. Parlor or heating stove.....	15,810	Feb. 17	30	562
Ansonia Brass and Copper Company, et al. (See Woodward, George W., assignor.)				
Arnold, Otto, Buckau, Magdeburg, Prussia, Germany. Plaque.....	16,309	Oct. 6	33	2
Atterbury, Thomas B., Pittsburg, Pa., assignor to Harden Hand Fire Extinguisher Company, Chicago, Ill. Bottle.....	16,159	July 14	32	140
Atterbury, Thomas B., and W. Beck, Pittsburg, assignors to G. A. Macbeth, Allegheny City, Pa. Lamp-chimney.....	16,180	July 28	32	386
Aughinbaugh & Baker Bros. (See Aughinbaugh and Morrow, assignors.)				
Aughinbaugh, Barnet A., and G. Morrow, assignors to Aughinbaugh & Baker Bros., Urbana, Ohio. Vehicle-body.....	16,086 15,757 to	May 12	31	668
Babcock, Charles A., assignor to Pratt & Letchworth, Buffalo, N. Y. Carriage-step.....	{ 15,757 } 16,303	Feb. 3	30	348
Backus, Quimby S., Winchendon, Mass. Folding bedstead.....	16,044	Aug. 18	32	778
Baker, Pratt & Co. (See Day, Joseph C., assignor.)				
Bailey, Charles A., Middletown, Conn. Gong for bells.....	16,044	Apr. 14	31	123
Bangor Foundry and Machine Company. (See Whitman, William S., assignor.)				
Barbeau, Père et Fils. (See Crooks, Ramsay, assignor.)				
Barlow, James, Trenton, N. J. Vegetable-dish.....	16,310	Oct. 6	33	2
Barnes & Beyer. (See Hartley, John, assignor.)				
Barnhart, Alson E., et al. (See Guildenstine, Julius, assignor.)				
Barnhart, Alson E., et al. (See Hoyer, Charles E., assignor.)				
Barnhart, Alson E., et al. (See Jackson, William W., assignor.)				
Barnhart, Arthur M., et al. (See Guildenstine, Julius, assignor.)				
Barnhart, Arthur M., et al. (See Hoyer, Charles E., assignor.)				
Barnhart, Arthur M., et al. (See Jackson, William W., assignor.)				
Bascom, H. Clay, Troy, N. Y. Cooking-stove.....	{ 15,678 } 15,679	Jan. 6	30	2
Bascom, H. Clay, Troy, N. Y. Cooking-stove.....	15,763	Feb. 3	30	348
Bascom, H. Clay, Troy, N. Y. Parlor-stove.....	16,413	Dec. 15	33	1270
Bascom, H. Clay, Troy, N. Y. Cooking-stove.....	{ 16,421 } 16,422	Dec. 15	33	1270
Bascom, H. Clay, Troy, N. Y. Cannon stove.....	16,423	Dec. 22	33	1394
Bascom, H. Clay, Troy, and T. S. Heister, Lansingburg, N. Y., assignors to Richmond Stove Company, Norwich, Conn. Stove.....	16,147	July 7	32	2
Bascom, H. Clay, and A. Wemyss, Troy, N. Y., assignors to said Bascom. Cylinder-stove.....	16,424	Dec. 22	33	1394
Bawden, John H., et al. (See Read and Caley, assignors.)				
Bawo, Francis H., et al. (See Nousseat, François A., assignor.)				
Baxter, Isaac J., Peekskill, N. Y. Ornamentation of sinks.....	16,210	Aug. 25	32	898
Beal, Morton F., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 15,782 } 15,783	Feb. 10	30	453
Beal, Morton F., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	16,255	Sept. 22	32	1360
Beatty, George and R. J., and G. W. Davis, Steubenville, Ohio. Glassware.....	16,371	Nov. 10	33	626
Beatty, Robert J. (See Beatty and Davis.)				
Beck, Washington. (See Atterbury and Beck.)				
Becker, George, Providence, R. I. Jewel-setting.....	16,382	Nov. 17	33	761
Beeler, Charles H., Jr., assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of printing-type.....	15,811	Feb. 17	30	562
Beeler, Charles H., Jr., assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Type.....	16,425	Dec. 29	33	1501
Bement, Arthur O., M. D. Keyes, and C. E. Bement, Lansing, Mich. Heating-stove.....	16,372	Nov. 10	33	626
Bement, Clarence E. (See Bement, Keyes, and Bement.)				
Bendix, Herman. (See Salomon, Siegfried, assignor.)				
Benedict, George H., New York, N. Y. Package-holder.....	15,736	Jan. 20	30	182
Benjamin, Frank, Lansingburg, N. Y. Needle-work holder.....	15,812	Feb. 17	30	562
Bennett, Edward E. (See Norman and Bennett.)				
Bennett, Edwin, Baltimore, Md. Pitcher.....	16,079	May 12	31	668
Bernhard, Morris, assignor to Dreyfus Brothers, New York, N. Y. Pendant.....	15,737	Jan. 20	30	182
Bernhard, Morris, assignor to Dreyfus Brothers, New York, N. Y. Pendant.....	15,746	Jan. 27	30	264
Berry, Henry, Birmingham, Conn. Bottle.....	16,311	Oct. 6	33	2
Bigelow Carpet Company. (See Campbell, Jacob B., assignor.)				
Bigelow Carpet Company. (See Halliday, Arthur L., assignor.)				
Bigelow Carpet Company. (See Komori, Norie, assignor.)				
Bigelow Carpet Company. (See London, Milton R., assignor.)				
Bigelow Carpet Company. (See McCallum, William, assignor.)				
Bigelow Carpet Company. (See Pyne, Edmund, assignor.)				
Bigelow Carpet Company. (See Smith, Frank E., assignor.)				
Blair, Joseph, Philadelphia, Pa. Curtain fabric.....	16,034	Apr. 7	31	1
Böttcher, Georg, Warzen, Saxony, Germany. Mohair plush.....	15,924	Mar. 10	30	896

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Bradley, Daniel R., New York, N. Y. Perfumery-bottle.....	16,181	July 28	32	386
Brecht, Theodore C., Washington, D. C. Paper-cutter.....	15,764	Feb. 3	30	348
Brehmer, Henry, Stapleton, assignor to D. W. Bruce, New York, N. Y. Type.....	{ 15,747 to 15,749 }	Jan. 27	30	264
Brehmer, Henry, Stapleton, assignor to D. W. Bruce, New York, N. Y. Type.....	10,002	Mar. 31	30	1209
Brittin, Frederick W. (See Murray and Brittin.)	16,067	May 5	31	521
Bromley, Edward, <i>et al.</i> (See Pegel, Julius, assignor.)				
Bromley, Edward, <i>et al.</i> (See Petzold, Adolph, assignor.)				
Bromley, John H., <i>et al.</i> (See Pegel, Julius, assignor.)				
Bromley, John H., <i>et al.</i> (See Petzold, Adolph, assignor.)				
Bromley, Joseph H., <i>et al.</i> (See Pegel, Julius, assignor.)				
Bromley, Joseph H., <i>et al.</i> (See Petzold, Adolph, assignor.)				
Bromley & Sons, John. (See Finck, Henry, assignor.)				
Bromley & Sons, John. (See Petzold, Adolph, assignor.)				
Brooke, Isaac, Pottstown, Pa. Money-box.....	15,963	Mar. 24	30	1097
Brooks & Son, George. (See Nuffer, Ernest G., assignor.)				
Brothwell, John G., assignor to Turner & Seymour Manufacturing Company, Torrington, Conn. Window-shade pull.....	{ 16,035 to 16,036 }	Apr. 14	31	123
Brownell, William H., Brooklyn, N. Y. Plaque-frame.....	15,950	Feb. 24	30	663
Brownell, William H., Brooklyn, N. Y. Plaque.....	15,881	Mar. 3	30	778
Bruce, David W. (See Brehmer, Henry, assignor.)				
Bruce, David W. (See Ihlenburg, Hermann, assignor.)				
Bruce, David W. (See Ruthven, Edwin C., assignor.)				
Bryar, Samuel B. (See Scott and Bryar.)				
Buermann, August, Newark, N. J. Pattern for a spur.....	16,388	Nov. 24	33	892
Buhrer, John S., Chicago, Ill. Door-hanger.....	16,179	July 21	32	260
Bunker, William I., Chicago, Ill. Bracket for springs.....	15,984	Mar. 24	30	1077
Burr, Russell H. (See Rogers and Burr.)				
Butler, Richard, Secretary. (See Hunt, Richard M., assignor.)				
Butterick Publishing Company. (See Tully, Louise, assignor.)				
Butterick Publishing Company. (See Turner, Mary, assignor.)				
Calely, Edward L. (See Read and Calely.)				
Cambell, Jacob B., Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet.....	16,047	Apr. 14	31	124
Candee & Co., L. (See Elliott, Lewis, assignor.)				
Captain, William F., Chicago, Ill. Font of printing-type.....	{ 16,101 to 16,102 }	May 26	31	920
Cellinold Brush Company. (See Thurber, Charles H., assignor.)	16,122	June 2	31	1048
Chaffee, Frederick H., and W. E. Colladay, Washington, D. C. Medal.....	15,925	Mar. 10	30	896
Chandler, Edward D., Cambridge, Mass. Carpet.....	15,967	Mar. 17	30	997
Channon, Emery & Company. (See Schermerhorn and Weller, assignors.)				
Channon, William V., <i>et al.</i> (See Schermerhorn and Weller, assignors.)				
Chicago Hardware Manufacturing Company. (See Niles, Sidney S., assignor.)				
Clark, Minford S., New York, N. Y. Card receiver and stand.....	16,405	Dec. 8	33	1142
Colladay, William E. (See Chaffee and Colladay.)				
Combs, Gilbert, <i>et al.</i> (See Read and Calely, assignors.)				
Conner, James M., New York, N. Y. Font of printing-type.....	15,966	Mar. 10	30	296
Conner & Sons, James. (See Giesecke, George F., assignor.)				
Conover & Co., J. S. (See Schoonmaker, Edward T., assignor.)				
Coelev, Ralph B., Brooklyn, N. Y. Ten-pin.....	16,068	May 5	31	521
Copelin, Thomas E., Chicago, Ill. Stick-candy.....	15,851	Feb. 24	30	663
Cory, Eugene A., Providence, R. I. Watch-chain.....	16,313	Oct. 6	33	2
Couch, Albert C. (See De Band and Couch.)				
Cousins, Chastine R., Swansenville, Va. Tobacco-knife.....	16,087	May 12	31	668
Cox Stove Company, Abram. (See Page, J. Austin, assignor.)				
Cox Stove Company, Abram. (See Page, James A., assignor.)				
Crafts, Wilbur F., New York, N. Y. Finger-ring.....	15,711	Jan. 13	30	102
Crane & Breed Manufacturing Company. (See McComas, William R., assignor.)				
Crane, Richard T., Chicago, Ill. Flange-union.....	16,160	July 14	32	140
Crane, Zenas, Jr., Dalton, Mass. Writing paper.....	16,060	May 12	31	668
Crease, Orlando, <i>et al.</i> (See Heald, Alfred, assignor.)				
Crocker, Eugene B., Pawtucket, R. I. Easel.....	16,312	Oct. 6	33	2
Crooks, Ramsay, New York, N. Y., assignor to Barabeau, Père & Fils, Périgueux, France. Bottle or jar.....	16,069	May 5	31	521
Dana, Frederic T., Wiscasset, Me. Clothes-line block.....	16,337	Oct. 20	33	229
Danby, Arthur, Philadelphia, Pa. Carpet.....	15,713	Jan. 13	30	102
Daniels, Louis. (See Selkirk, Alexander, assignor.)				
Dash, Bowie, New York, N. Y. Ornamentation of paper.....	16,291	Sept. 29	32	1470
Davenport, John. (See Hartley, John, assignor.)				
Davis, George W. (See Beatty and Davis.)				
Davis, Henry, assignor to Horner Brothers, Philadelphia, Pa. Carpet.....	{ 16,003 to 16,004 }	Mar. 31	30	1209
Dawkins, Peter J., Brooklyn, N. Y. Type.....	15,767	Feb. 3	30	348
Day, Joseph C., Philadelphia, Pa., assignor to Baker, Pratt & Co., New York, N. Y. Settee-frame.....	15,712	Jan. 13	30	102
De Band, Halsey C., Newark, N. J., and A. C. Couch, New York, N. Y. Ornamentation of skating-rinks.....	15,714	Jan. 13	30	102
Demuth, William, New York, N. Y. Ornamentation of paper.....	16,256	Sept. 22	32	1360
Devlin & Co., Thomas. (See Alexander, James H., assignor.)				
De Young, John, New York, N. Y. Catalogue-cover.....	16,173	July 21	32	260
Dietrich, Henry, Pittsburg, Pa. Lamp-chimney.....	15,862	Feb. 24	30	663
Dominick & Huff. (See Witteck, Charles, assignor.)				
Donnell, John W., St. Louis, Mo. Bottle.....	16,016	Apr. 7	31	1
Dorman Bros. & Co. (See Richter, Oscar, assignor.)				
Dotter, Charles T., <i>et al.</i> (See Nonesat, François A., assignor.)				
Dreyfus, Bernhard, New York, N. Y. Pendant.....	15,730	Jan. 20	30	122
Dreyfus, Bernhard, New York, N. Y. Pendant.....	15,750	Jan. 27	30	264
Dreyfus, Bernhard, New York, N. Y. Pendant.....	15,706	Feb. 3	30	348
Dreyfus, Bernhard, New York, N. Y. Pendant.....	16,070	May 5	31	521
Dreyfus Brothers. (See Bernhard, Morris, assignor.)				
Dreyfus, Julius, New York, N. Y. Chenille ornament.....	15,738	Jan. 20	30	122
Drown, William A., Philadelphia, Pa. Parasol.....	16,068	May 12	31	668

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Dryfoos, Louie, New York, N. Y. Quilting-pattern for skirts	16,992	Sept. 29	32	1470
Dudgeon, Cathrine, New York, N. Y. Necktie	16,017	Apr. 7	31	1
Duffield, William, London, Ontario, Canada. Argand-lamp chimney	16,398	Dec. 1	33	1000
Dux, Martin M., New York, N. Y. Advertising-card	15,985	Mar. 24	32	1097
Dwyer, James, and J. W. Herriek, Detroit, Mich. Stove	16,196	Aug. 11	32	635
Eberlein, Fred, Chicago, Ill. Show-card	16,246	Sept. 15	32	1242
Eddishaw, Ellen. (See Scatchard, Elmer E., assignor.)				
Edwards, John, Fenton, county of Stafford, England. Table-ware	16,319	Oct. 13	32	117
Eggers, Anton C., Astoria, N. Y. Pencil-rip	16,340	Oct. 20	32	239
Ehninger, John W., Saratoga Springs, N. Y. Statuette group	16,389	Nov. 24	32	892
Einsfield, John, Oneida, N. Y. Burial-casket	16,293	Sept. 29	32	1470
Eisner, Moritz, and J. Mendelson, Philadelphia, Pa. Stand	16,359	Nov. 3	32	504
Eisner, Moritz, and J. Mendelson, Philadelphia, Pa. Stand	16,389			
Eisner, Moritz, and J. Mendelson, Philadelphia, Pa. Stand	16,381	Nov. 10	33	626
Elizabeth Oil Cloth Company. (See McClinchie, Uriah, assignor.)				
Ellitt, Lewis, assignor to L. Candee & Co., New Haven, Conn. Ornamentation of india-rubber soles	16,018	Apr. 7	31	1
Ellis, George A., Gardner, Mass. Baby-carriage body	16,224	Sept. 8	32	1128
Embossing Company. (See Selkirk, Charles, assignor.)				
Emory, Joseph W., <i>et al.</i> (See Schermerhorn and Weller, assignors.)				
Ennis & Co., George W. (See Gilmour, William, assignor.)				
Ennis & Co., George W. (See Hemming, Richard P., assignor.)				
Ennis & Co., George W. (See Roberts, William H., assignor.)				
Essig, Ozia A., Canton, Ohio. Plow-beam	15,814	Feb. 17	30	562
Euston, Alexander, St. Louis, Mo. Sample-shot case	16,071	May 5	31	521
Evans, Oscar C. (See Langenbahn, Evans, and Hibby.)				
Ferguson, James H., Brooklyn, N. Y. Fan	16,360	Nov. 3	33	504
Ferguson, Joseph, assignor to Stead & Miller, Philadelphia, Pa. Upholstery fabric	15,815	Feb. 17	30	562
Ferguson, Joseph, assignor to Stead & Miller, Philadelphia, Pa. Curtain fabric	15,926	Mar. 10	30	696
Finck, Henry, New York, N. Y. Rug	16,314	Oct. 6	33	2
Finck, Henry, New York, N. Y., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,161	July 14	32	140
Finnegan, John, Philadelphia, Pa. Saucepan-handle	16,053	Apr. 21	31	267
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	15,680	Jan. 6	30	2
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	15,681			
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	15,662	Jan. 6	30	2
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	15,696			
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	15,817	Feb. 17	30	562
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	15,822			
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	15,848	Feb. 17	30	562
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	16,247	Sept. 15	32	1242
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	16,258			
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	16,267	Sept. 22	32	1360
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	16,320			
Fisher, Edwin, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	16,322	Oct. 13	33	117
Fiske, J. W. (See Hanna, William C., Jr., assignor.)				
Fiske, J. W. (See Kaiffert, Frederick, assignor.)				
Flagg, Thomas J., New York, N. Y. Made-up scarf	15,830	Feb. 17	30	562
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	15,768	Feb. 3	30	348
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	15,853			
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	15,858	Feb. 24	30	664
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	15,882			
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	15,909	Mar. 3	30	778
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	15,927			
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	15,952	Mar. 10	30	896
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	15,968			
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	15,971	Mar. 17	30	997
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	15,986	Mar. 24	30	1097
Folsom, James L., Brooklyn, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	16,005	Mar. 31	30	1210
Foots, Julius M., Newark, N. J. Carriage-stop	16,138	June 30	31	1564
Fox, Emil, New York, N. Y. Bas-relief of General Grant	16,257	Sept. 22	32	1360
Franko, George, Baltimore, Md. Paper lantern	16,390	Nov. 24	33	892
Fraser, Alexander, New Glasgow, Nova Scotia, Canada. Lamp-chimney heater	16,090	May 19	31	794
Freeland, Anna C., Worcester, Mass. Panel for clock-front	16,373	Nov. 10	33	696
Frost, Ella C., Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	15,682	Jan. 6	30	2
Fuller, Levi K., Battleborough, Vt. Organ-case	16,134	June 23	31	1448
Gager, Oliver A. (See Gérard, Emilio, assignor.)				
Galland, Bonham, New York, N. Y. Fabric	16,163	July 14	32	140
Garbutt, Andrew, Boston, Mass. Cooking stove or range	16,189	Aug. 4	32	522
Garland, Frank M., Providence, R. I. Exhibition-case	16,211	Aug. 25	32	898
Gérard, Emilio, Limoges, France, assignor to O. A. Gager, Brooklyn, N. Y. Dish	16,414	Dec. 15	33	1270
Giblin, John M., Sheboygan, Wis. Bottle or similar vessel	15,910	Mar. 3	30	778
Giesecke, George F., Leipzig, Saxony, Germany. Type-border	16,089	May 12	31	668
Giesecke, George F., Leipzig, Germany, assignor to J. Conner's Sons, New York, N. Y. Type	16,341	Oct. 20	33	239
Gilmour, William, assignor to G. W. Ennis & Co., Philadelphia, Pa. Rug	15,786	Feb. 10	30	453
Gilmour, William, assignor to G. W. Ennis & Co., Philadelphia, Pa. Rug	15,953	Mar. 10	30	896
Gobeille, Joseph L., Cleveland, Ohio. Cook-stove	16,201	Aug. 11	32	656
Gobeille, Joseph L., assignor to Myers, Osborn & Co., Cleveland, Ohio. Cooking-stove	15,740	Jan. 20	30	192
Goerts, Frederick, New York, N. Y. Ornamentation of boys' jackets	16,066	Mar. 31	30	1210
Goodsell, John F. (See Tompkins and Goodsell.)				
Gould, John C., Chicago, Ill. Frame for animal-traps	16,342	Oct. 20	33	239
Gould, Robert S., East Orange, N. J. Curtain-pole or stair-rod	16,054	Apr. 21	31	267
Graham, John, Chicago, Ill. Font of printing-type	16,374	Nov. 10	33	636
Graham, John, New York, N. Y. Gimp	16,383	Nov. 17	33	761
Graham, John C., Philadelphia, Pa. Gimp	16,091			
Graham, John C., Philadelphia, Pa. Gimp	16,092	May 19	31	794

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Graham, William H., Cuero, Tex. Watch-chain	16,081	May 12	31	608
Greenfield, Nelson. (See Schwarzschild and Greenfield.)				
Grosjean, Charles T., assignor to Tiffany & Co., New York, N. Y. Spoon or analogous article	15,715	Jan. 13	30	102
Grosjean, Charles T., assignor to Tiffany & Co., New York, N. Y. Spoon, fork, or knife handle	15,710 15,717	Jan. 13	30	102
Grosjean, Charles T., assignor to Tiffany & Co., New York, N. Y. Spoon or fork	15,784	Feb. 10	30	453
Grosjean, Charles T., assignor to Tiffany & Co., New York, N. Y. Spoon-handle	15,785	Feb. 10	30	453
Grosjean, Charles T., assignor to Tiffany & Co., New York, N. Y. Spoon-handle	15,831	Feb. 17	30	562
Grosjean, Charles T., assignor to Tiffany & Co., New York, N. Y. Spoon-handle	16,216	Sept. 1	32	1014
Groux, L. Solon, Chicago, Ill. Sign	16,093	May 19	31	794
Guildenstine, Julius, New York, N. Y., assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of printing-type	15,787	Feb. 10	30	453
Gwinell, John M., Newark, N. J. Harness-mounting	16,007	Mar. 31	30	1210
Hall, John. (See Hils, Alfred E., assignor.)				
Halliday, Arthur L., Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	15,987 to 15,989	Mar. 24	30	1097
Halliday, Arthur L., Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	16,019	Apr. 7	31	1
Halliday, Arthur L., Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	16,038	Apr. 14	31	123
Halliday, Arthur L., Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	16,052	Apr. 21	31	267
Halliday, Arthur L., Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	16,107	May 26	31	920
Hanna, William C., Jr., assignor to J. W. Flske, New York, N. Y. Stable-hinge	16,349	Oct. 27	33	359
Hanna, William C., Jr., assignor to J. W. Flske, New York, N. Y. Stable-hinge	16,391	Nov. 24	33	892
Harden Hand Fire Extinguisher Company. (See Atterbury, Thomas B., assignor.)				
Harris, Elijah T., Chicago, Ill. Bracket	15,788	Feb. 10	30	453
Harris, William, Baltimore, Md. Card-receiver	16,072	May 5	31	521
Harrison, Norval M., Baltimore, Md. Advertising-sign	15,991	Mar. 24	30	1097
Hart, Henry C., Detroit, Mich. Toy bank	16,146	July 7	32	2
Hartford Carpet Company. (See Folsom, James L., assignor.)				
Hartford Carpet Company. (See Heiligke, Otto, assignor.)				
Hartford Carpet Company. (See Hunt, Henry, assignor.)				
Hartford Carpet Company. (See Jacobs, Winthrop L., assignor.)				
Hartley, John, assignor to J. Davenport, Philadelphia, Pa. Curtain fabric	15,741	Jan. 20	30	162
Hartley, John, assignor to Barnes & Beyer, Philadelphia, Pa. Curtain fabric	15,990	Mar. 24	30	1097
Hartshorn, Stewart, Millburn, N. J. Bracket for shade-rollers	16,037	Apr. 14	31	123
Hansake, Adolph, Chicago, Ill. Sofa	16,248	Sept. 15	32	1242
Haviland, Charles E., Limoges, France. Handle for dishes	16,048	Apr. 14	31	124
Haviland, Charles E., Limoges, France. Handle for dishes	16,060	Apr. 28	31	382
Haviland, Edwin, Plainfield, N. J. Platter	15,789	Feb. 10	30	453
Haviland, Edwin, Plainfield, N. J. Tea-set	16,073	May 5	31	521
Haviland, Edwin, Plainfield, N. J. Oyster-plate	16,204	Aug. 18	32	778
Hawes, Edward C., Providence, R. I. Steam-trap case	15,718	Jan. 13	30	102
Heald, Alfred, Philadelphia, Pa. Carpet	15,719 to 15,721	Jan. 13	30	102
Heald, Alfred, Philadelphia, Pa. Carpet	15,769	Feb. 3	30	348
Heald, Alfred, assignor to H. McCallum, O. Crease, and A. J. Sloan, Philadelphia, Pa. Carpet	15,742	Jan. 20	30	162
Heidt, Louis, Brooklyn, N. Y. Glass sheet or pane	15,972	Mar. 17	30	998
Heinigke, Otto, New Utrecht, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	15,859	Feb. 24	30	664
Heinigke, Otto, New Utrecht, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	15,911	Mar. 3	30	772
Heinigke, Otto, New Utrecht, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	15,973 to 15,975	Mar. 17	30	998
Heinigke, Otto, New Utrecht, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	15,992	Mar. 24	30	1098
Heister, Tobias S. (See Baacom and Heister.)				
Held, Emil, assignor to himself and R. Ippich, New York, N. Y. Chenille	16,212	Aug. 25	32	896
Hemming, R. Paul, assignor to G. W. Ennis & Co., Philadelphia, Pa. Rug	16,147 16,148	July 7	32	2
Hemming, R. Paul, assignor to G. W. Ennis & Co., Philadelphia, Pa. Curtain	16,315	Oct. 6	33	2
Hemming, R. Paul, assignor to G. W. Ennis & Co., Philadelphia, Pa. Rug	16,392 to 16,394	Nov. 24	33	892
Hemming, Richard P., assignor to G. W. Ennis & Co., Philadelphia, Pa. Rug	16,064	May 19	31	794
Hemming, Richard P., assignor to G. W. Ennis & Co., Philadelphia, Pa. Curtain fabric	16,108	May 26	31	920
Hemming, Richard P., assignor to G. W. Ennis & Co., Philadelphia, Pa. Rug	16,164 16,165	July 14	32	140
Herrick, John W. (See Dwyer and Herrick.)				
Hoyer, Charles E., assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of printing-type	15,684	Jan. 6	30	2
Hoyer, Charles E., assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of printing-type	15,710	Jan. 6	30	2
Hiby, Charles. (See Langenbahn, Evans, and Hiby.)				
Hils, Alfred E., Burslem, county of Stafford, England, assignor to J. Hall, Boston, Mass. Vegetable-dish	16,166	July 14	32	140
Hodgson, Joseph, Philadelphia, Pa. Fabric for seat-coverings	16,051	Apr. 21	31	267
Hofmann, Jacob, Brooklyn, N. Y. Stool	15,790	Feb. 10	30	453
Holmes, Booth & Haydens. (See Jenkins, Nicolas, assignor.)				
Holmes, Booth & Haydens. (See Noé, William R., assignor.)				
Holyland, Charles, Pittsburg, Pa. Badge	16,197	Aug. 11	32	656
Holzmak, Isaac, Kansas City, Mo. Carpet-molding	15,632	Feb. 17	30	562
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	16,249 16,250	Sept. 15	32	1242
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	16,329 16,330	Oct. 13	33	118
Hornor Brothers. (See Davis, Henry, assignor.)				
Hornor Brothers. (See Neil, John B., assignor.)				
Houts, Michael L., St. Louis, Mo. Bottle	16,331	Oct. 13	33	118
Doyle, Harrison & Kaye. (See Kerr, David B., assignor.)				
Huestis, Harvey, Providence, R. I. Ring-setting	16,196	June 16	31	1308
Hull, Nicholas A., Peru, Ind. Sewing-machine case	16,039 16,040	Apr. 14	31	123
Hull, Wolcott A., et al. (See Woodward, George W., assignor.)				
Humbert, Henry, Brooklyn, N. Y. Bottle	15,697	Jan. 6	30	2

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Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet...	{ 15,860 to 15,865 }	Feb. 24	30	664
Hunt, Henry, Greenville, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet...	15,993	Mar. 24	30	1098
Hunt, Richard M., assignor to R. Butler, Secretary, New York, N. Y. Pedestal orstand for a statue.	16,167	July 14	32	140
Hurdle, Julian A., New York, N. Y. Carbon filament.	15,685	Jan. 6	30	2
Hyams, Charles. (See Koch, William, assignor.)				
Ihlenburg, Herman, Philadelphia, Pa., assignor to D. W. Bruce, New York, N. Y. Type.....	{ 15,751 15,752 }	Jan. 27	30	904
Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of printing-type	15,791	Feb. 10	30	453
Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Type	16,394	Sept. 29	32	1470
Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Font of type	16,343	Oct. 20	33	239
Imfeld, Joseph F., Newark, N. J. Chain or bracelet	16,149	July 7	32	2
Ippich, Endolph. (See Held, Emil, assignor.)				
Ireland, David M., assignor of one-half to H. A. Matthews, Waterbury, Conn. Walter	16,406	Dec. 8	33	1142
Jackson, Charles W., Chicago, Ill. Furniture-gimp	15,912	Mar. 3	30	778
Jackson, Edwin A., New York, N. Y. Fire-place front.	{ 16,135 16,136 }	June 23	31	1448
Jackson, William W., Philadelphia, Pa., assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of printing-type	15,743	Jan. 20	30	189
Jackson, William W., Philadelphia, Pa., assignor to A. M. and A. E. Barnhart, Chicago, Ill. Font of printing-type	15,792	Feb. 10	30	453
Jacobs, Winthrop L., East Orange, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	{ 15,666 to 15,876 }	Feb. 24	30	664
Jaworski, Hermann, assignor to Sargent & Co., New Haven, Conn. Ornamentation of hardware.	16,295	Aug. 18	32	778
Jenkins, Nicolas, assignor to Holmes, Booth & Haydens, Waterbury, Conn. Pendant for lamps, &c	16,350	Oct. 27	33	359
Jennings, Abraham G., assignor to A. G. Jennings & Sons, Brooklyn, N. Y. Parasol-covering	16,055	Apr. 21	31	267
Jennings & Sons, Abraham G. (See Jennings, Abraham G., assignor.)				
Jerome, Luther E., assignor to New Haven Clock Company, New Haven, Conn. Clock-case	16,082	May 12	31	668
Johnson, Henry C., El Dorado, Ark. Buckle	16,123	June 2	31	1048
Johnson, Henry C., and J. B. Moore, El Dorado, Ark. Buckle	16,347	Oct. 20	33	239
Joyce, Alfred, Montreal, Quebec, Canada. Mold for jelly, &c	16,174	July 21	32	260
Kaifer, Frederick, assignor to J. W. Fiske, New York, N. Y. Vase	16,288	Sept. 22	32	1360
Kaldenberg, Frederick J., New York, N. Y. Brush-handle.	16,190	Aug. 4	32	522
Kaldenberg, Frederick J., New York, N. Y., assignor to Novelty Manufacturing Company, Waterbury, Conn. Cano or umbrella head	15,840	Feb. 17	30	562
Kaldenberg, Frederick R., New York, N. Y. Pipe-stem	16,005	May 19	31	794
Kelso, James R., Brooklyn, N. Y. Necktie.	15,913	Mar. 3	30	778
Kelso, James R., Brooklyn, N. Y. Scarf	15,954	Mar. 24	30	1098
Kellogg, William P., Troy, N. Y. Curry-comb	15,954	Mar. 10	30	896
Kempshall Manufacturing Company. (See Sparks, William E., assignor.)				
Kerr, David B., assignor to Hoyle, Harrison & Kaye, Philadelphia, Pa. Upholstery fabric.	{ 15,833 15,834 }	Feb. 17	30	562
Keyes, Marquis D. (See Bement, Keyes, and Bement.)				
Kilbourn, Silas, Grand Haven, Mich. Ornamentation of fish-pails	16,209	Aug. 18	32	778
Kitschelt, Charles, assignor to N. Muller's Sons, New York, N. Y. Lamp	15,722	Jan. 13	30	102
Kitschelt, Charles, assignor to N. Muller's Sons, New York, N. Y. Clock-front	15,997	Mar. 24	30	1098
Kling, Orlando, Idaho Springs, Colo. Watch and clock dial	16,045	Apr. 14	31	123
Knott, Joseph W., Beaver Falls, Pa. Hopper for coffee-mills	16,332	Oct. 13	33	118
Knowles, Homer S. (See Knowles, Taylor, and Knowles.)				
Knowles, Isaac W., J. N. Taylor, and H. S. Knowles, East Liverpool, Ohio. Nappy or dish	15,753	Jan. 27	30	264
Knowles, Isaac W., J. N. Taylor, and H. S. Knowles, East Liverpool, Ohio. Covered dish	15,914	Mar. 3	30	778
Koch, William, assignor of one-half to C. Hyams, New York, N. Y. Quilting-pattern for skirts	{ 16,175 16,176 }	July 21	32	260
Kochs, Theodore A., Chicago, Ill. Arm-rest support	16,251	Sept. 15	32	1242
Komori, Norio, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	{ 15,995 15,996 }	Mar. 24	30	1098
Komori, Norio, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	16,008	Mar. 31	30	1210
Komori, Norio, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	16,041	Apr. 14	31	123
Komori, Norio, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	16,056	Apr. 21	31	267
Komori, Norio, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	16,074	May 5	31	521
Kumke, Edward, New York, N. Y. Trimming	16,252	Sept. 15	32	1242
Ladd, George W., Providence, R. I. Watch-case	16,127	June 16	31	1308
Lambert, Catholina, New York, N. Y. Handkerchief	16,316	Oct. 6	33	2
Landenberger, Frederick. (See Maul and Landenberger.)				
Landenbahn, Adolph, O. C. Evans, and C. Hiby, Hamilton, Ontario, Canada. Bas-relief	15,835	Feb. 17	30	562
Ledig, August, Philadelphia, Pa. Tray	16,150	July 7	32	2
Levy, Isaac, assignor to New York Consolidated Card Company, New York, N. Y. Back of a playing-card	{ 16,217 16,218 }	Sept. 1	32	1014
Little, Andrew, New York, N. Y. Font of type	16,061	Apr. 28	31	382
Little, Andrew, New York, N. Y. Type	16,124	June 9	31	1174
Little, Andrew, New York, N. Y. Type	16,182	July 28	32	386
Locke, Alexander S., New York, N. Y., assignor to New Haven Clock Company, New Haven, Conn. Clock-case	15,976	Mar. 17	30	998
Lockwood, James F., Philadelphia, Pa. Tray	16,191	Aug. 4	32	522
Loft, William, Jersey City, N. J. Candy-tray	16,213	Aug. 25	32	898
Lorinz, Friedrich C., Milwaukee, Wis. Child's sled	16,083	May 12	31	668
Loudon, Milton R., Jersey City, N. J., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	16,049	Apr. 14	31	124
Lowe, William T. J., Buffalo, N. Y. Trolling-spoon	16,198	Aug. 11	32	656
Lowell Manufacturing Company. (See Real, Morton F., assignor.)				
Lowell Manufacturing Company. (See Fisher, Edwin, assignor.)				
Lowell Manufacturing Company. (See Frost, Ella C., assignor.)				
Lowell Manufacturing Company. (See Horan, Henry, assignor.)				
Lowell Manufacturing Company. (See Poolo, Edward, assignor.)				
Lowell Manufacturing Company. (See Sauer, Emil G., assignor.)				
Lowell Manufacturing Company. (See Swapp, Charles W., assignor.)				
Lyall, James, New York, N. Y. Carpet	{ 16,361 16,362 }	Nov. 3	33	504
Lyall, James, New York, N. Y. Carpet	16,384	Nov. 17	33	761

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Macbeth, George A. (See Atterbury and Beck, assignors.)				
MacKellar, Smiths & Jordan. (See Beeler, Charles H., Jr., assignor.)				
MacKellar, Smiths & Jordan. (See Ihlenburg, Herman, assignor.)				
Magowan, Frank A., <i>et al.</i> (See May, Charles A., assignor.)				
Magowan, Frank A., <i>et al.</i> (See Wood, William, assignor.)				
Malier, Martin, Detroit, Mich. Trunk-iron	15,770	Feb. 3	30	348
Mankey, Frederick, Williamsport, Pa. Panel	16,325 to 16,328	Sept. 8	32	1128
Mankey, Frederick, Williamsport, Pa. Surface ornamentation of walls, &c	16,329 to 16,343	Sept. 8	32	1128
Mankey, Frederick, Williamsport, Pa. Surface ornamentation of walls, &c	16,344 to 16,350	Sept. 22	32	1300
Mankey, Frederick, Williamsport, Pa. Panel	16,351	Sept. 29	32	1470
Mankey, Frederick, Williamsport, Pa. Panel	16,357	Oct. 27	33	360
Mankey, Frederick, Williamsport, Pa. Cornice	16,358	Oct. 27	33	360
Mankey, Frederick, Williamsport, Pa. Surface ornamentation of walls, &c	16,364 to 16,365	Nov. 3	33	504
Mankey, Frederick, Williamsport, Pa. Surface ornamentation	16,365	Nov. 17	33	762
Mankey, Frederick, Williamsport, Pa. Panel	16,399 to 16,400	Dec. 1	33	1000
Mankey, Frederick, Williamsport, Pa. Surface ornamentation of walls, &c	16,401 to 16,402	Dec. 1	33	1000
Mankey, Frederick, Williamsport, Pa. Surface ornamentation of walls, &c	16,407	Dec. 8	33	1112
Mankey, Frederick, Williamsport, Pa. Panel	16,408	Dec. 8	33	1112
Mankey, Frederick, Williamsport, Pa. Surface ornamentation of walls, &c	16,415	Dec. 15	33	1270
Mankey, Frederick, Williamsport, Pa. Molding	16,416 to 16,426	Dec. 15	33	1270
Mankey, Frederick, Williamsport, Pa. Open-work panel	16,427 to 16,428	Dec. 29	33	1301
Mankey, Frederick, Williamsport, Pa. Molding	16,429	Dec. 29	33	1301
Manning, Alfred J., Irvington, N. Y., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Bar-handle	16,244	Sept. 8	33	1128
Mansur, Henry W., Boston, Mass. Hopper for closets	16,130	June 30	31	1314
Mantonya, Ethen D., Utica, Ohio. Rubbing-head for washing-machines	16,317	Oct. 6	33	2
Marder, Luso & Co. (See Captain, William F., assignor.)				
Maris, Jared, Columbus, Ohio. Shell-band for wheel-hubs	16,168	July 14	32	140
Maris, Jared, Columbus, Ohio. Ornamentation of wheel-hubs	16,295 to 16,296	Sept. 29	32	1470
Maris, Jared, Columbus, Ohio. Shell-band for hubs	16,344	Oct. 20	33	230
Maris, Jared, Columbus, Ohio. Ornamentation of wheel-hubs	16,363 to 16,430	Nov. 3	33	504
Maris, Jared, Columbus, Ohio. Ornamentation of flanges for hubs	16,431 to 16,432	Dec. 29	33	1301
Mathews, Henry A. (See Ireland, David M., assignor.)				
Maul, Hugo, and F. Lundenberger, New York, N. Y. Chenille	16,366	Nov. 3	33	504
May, Charles A., assignor to S. M. Alpaugh and F. A. Magowan, Trenton, N. J. Decorative pattern for dishes	16,042	Apr. 14	31	123
McCaffray, Patrick, assignor to W. T. Smith, Philadelphia, Pa. Curtain fabric	15,765	Feb. 3	30	348
McCaffray, Patrick, assignor to W. T. Smith, Philadelphia, Pa. Rug	15,998	Mar. 24	30	1098
McCallum, Hugh, <i>et al.</i> (See Heald, Alfred, assignor.)				
McCallum, William, Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	15,977 to 15,978	Mar. 17	30	998
McCallum, William, Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	15,999	Mar. 24	30	1098
McCallum, William, Yonkers, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	16,024	Apr. 7	31	1
McClintic, Uriah, New York, N. Y., assignor to Elizabeth Oil Cloth Company, Elizabeth, N. J. Enamelled cloth	16,096	May 19	31	794
McConas, William R., Oakley, assignor to Crane & Breed Manufacturing Company, Cincinnati, Ohio. Coffin-handle	15,955	Mar. 10	30	896
Melville, David G., Medford, assignor to Roxbury Carpet Company, Boston, Mass. Carpet	15,686	Jan. 6	30	2
Melville, David G., Medford, assignor to Roxbury Carpet Company, Boston, Mass. Carpet	16,137	June 23	31	1448
Memleb, Edward, New York, N. Y. Fringe-heading	16,097	May 19	31	794
Mendelson, Joseph. (See Eisner and Mendelson.)				
Mengel, John G., Jr., Baltimore, Md. Font of printing-type	15,723 to 15,724	Jan. 13	30	102
Messinger, Charles S., Brooklyn, N. Y. Cloth fabric	16,318	Oct. 6	33	2
Meyer, Bernard, New York, N. Y. Candy-box	16,353	Sept. 15	32	1242
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	15,771 to 15,776	Feb. 3	30	348
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	16,020 to 16,023	Apr. 7	31	1
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	16,109 to 16,112	May 26	31	920
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	16,113 to 15,119	June 2	31	1048
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	16,928 to 16,270	Sept. 22	32	1360
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	16,351 to 16,354	Oct. 27	33	359
Meyer, Charles T. and V. E., Bergen, N. J., assignors to E. C. Sampson, New York, N. Y. Oil-cloth	16,433 to 16,447	Dec. 29	33	1801
Meyer, Victor E. (See Meyer, Charles T. and V. E.)				
Miller, Fredrick C., Newport, Ky. Coupling-reach for roller-skates	16,128 to 16,130	June 16	31	1308
Miller, John E., Pittsburg, Pa. Glassware	16,409	Dec. 8	33	1142

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Miller, Lebbeus B., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Side frame for sewing-machine stands	16,378	Nov. 10	33	626
Miller, Philo W., Grand Junction, Iowa. Picture-hanger	16,307	Aug. 18	32	778
Mitchell, Herbert, assignor to M. J. Whittall, Worcester, Mass. Carpet	16,375 to 16,377	Nov. 10	33	626
Mooney, John J., New Orleans, La. Ventilator-cap	16,010	Mar. 31	30	1210
Moore, Fredrick W., Providence, R. I. Necklace	15,915	Mar. 3	30	778
Moore, Jesse B. (See Johnson and Moore.)				
Morris, Edward L., Boston, Mass. Toy savings-bank	16,190	June 2	31	1048
Morrow, George. (See Aughinbaugh and Morrow.)				
Mott Iron Works, J. L. (See Shaw, Arthur, assignor.)				
Mountford, Elijah, Trenton, N. J. Table-ware	16,906	Aug. 18	32	778
Mowen, John H. (See Quint and Mowen.)				
Mowen, John H., Brooklyn, N. Y. Ornamentation of burial-caskets	16,387	Nov. 17	33	762
Mueller, Julius, Wilmington, N. C., assignor to C. G. and W. J. Shepard, Buffalo, N. Y. Toy savings-bank	16,121	June 2	31	1048
Muller's Sons, Nicholas. (See Kitchelt, Charles, assignor.)				
Murray, Timothy, and F. W. Brittin, Birmingham, Conn. Fork	16,169	July 14	32	140
Myers, Charles H., Phelps, N. Y. Thermometer-back	16,140 to 16,141	June 30	31	1564
Myers, Charles H., Phelps, N. Y. Thermometer-back	16,151	July 7	32	2
Myers, Osborn & Co. (See Gobeille, Joseph L., assignor.)				
Namur, Auguste, assignor to Tuttle & Bailey Manufacturing Company, New York, N. Y. Border-frame for registers	15,916 to 16,057	Mar. 3	30	778
Namur, Auguste, assignor to Tuttle & Bailey Manufacturing Company, New York, N. Y. Hot-air-register front	16,050 to 16,011	Apr. 21	31	267
Nauwerck, Johann H. L., St. Louis, Mo. Medal	16,219 to 16,011	Sept. 1	32	1014
Neil, John B., assignor to Horner Brothers, Philadelphia, Pa. Carpet	16,014 to 15,725	Mar. 31	30	1210
Neubert, Frank, Springfield, Mass. Badge		Jan. 13	30	102
New Haven Clock Company. (See Jerome, Luther E., assignor.)				
New Haven Clock Company. (See Locke, Alexander S., assignor.)				
New York Consolidated Card Company. (See Levy, Isaac, assignor.)				
Nickel, David, Morris, Ill. Hanger	15,917	Mar. 3	30	778
Niles, Sidney S., assignor to Chicago Hardware Manufacturing Company, Chicago, Ill. Door-knob and escutcheon	16,015	Mar. 31	30	1210
Nobles, John C., Atlantic Highlands, N. J. Blinding-strainer	15,979	Mar. 17	30	998
Noé, William R., Newark, N. J., assignor to Holmes, Booth & Haydens, Waterbury, Conn. Pendant for lamps, &c.	16,355	Oct. 27	33	359
Norman, Lawrence F., and E. E. Bennett, Boston, Mass. Rubber sole	16,025	Apr. 7	31	1
Noussat, François A., Limoges, France, assignor to F. H. Bawo and C. T. Dotter, New York, N. Y. Table-ware	16,062	Apr. 28	31	382
Novelty Manufacturing Company. (See Kaldenberg, Frederick J., assignor.)				
Nuffer, Ernest G., assignor to G. Brooks & Son, Philadelphia, Pa. Curtain fabric	15,683	Jan. 6	30	2
Nuffer, Ernest G., assignor to G. Brooks & Son, Philadelphia, Pa. Curtain fabric	15,877	Feb. 24	30	664
Ohrenschall, Frederick A., assignor to J. H. Winkelmann, Baltimore, Md. Bottle-stand	15,914	Mar. 3	30	778
Ohrenschall, Frederick A., assignor to J. H. Winkelmann, Baltimore, Md. Bottle-stand	16,152	July 7	32	2
Osborn, George R., New York, N. Y. Easel	16,333	Oct. 13	33	118
Otto, Charles A., New York, N. Y. Pendant	15,087	Jan. 6	30	2
Page, Charlotte E., Chicago, Ill. Knot for scarf, &c.	16,417	Dec. 15	33	1270
Page, J. Austin, assignor to A. Cox Stove Company, Philadelphia, Pa. Ornamental fire-place lining	16,131 to 16,139	June 16	31	1302
Page, James A., assignor to A. Cox Stove Company, Philadelphia, Pa. Fire-place lining	16,173	July 7	32	2
Pakenham, John, Brooklyn, N. Y. Alto-rilievo	16,334	Oct. 13	33	118
Palmer, Henry L., Brooklyn, N. Y. Easel frame or holder	16,199	Aug. 11	32	656
Parker, Frank F., West Gardner, Mass. Chair-back	16,395	Nov. 24	33	892
Pegel, Julius, assignor to J. H., J. H., and E. Bromley, Philadelphia, Pa. Carpet	15,891 to 15,896	Feb. 10	30	453
Pegel, Julius, assignor to J. H., J. H., and E. Bromley, Philadelphia, Pa. Carpet	15,896	Mar. 10	30	896
Petzold, Adolph, Philadelphia, Pa. Rug	16,156	July 7	32	2
Petzold, Adolph, Philadelphia, Pa. Rug	16,177 to 16,178	July 21	32	260
Petzold, Adolph, Philadelphia, Pa. Rug	16,183	July 28	32	386
Petzold, Adolph, Philadelphia, Pa. Rug	16,184	Aug. 4	32	522
Petzold, Adolph, Philadelphia, Pa. Rug	16,192	Aug. 25	32	898
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,214 to 16,154	July 7	32	2
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug	16,155	July 14	32	140
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Carpet	16,170 to 16,403	Dec. 1	33	1000
Petzold, Adolph, assignor to J. H., J. H., and E. Bromley, Philadelphia, Pa. Carpet	15,793 to 15,725	Feb. 10	30	453
Petzold, Adolph, assignor to J. H., J. H., and E. Bromley, Philadelphia, Pa. Rug	15,796 to 15,800	Feb. 10	30	453
Pirkil, John, Brooklyn, N. Y. Window-guard	16,215	Aug. 25	33	898
Platky, Adolph, New York, N. Y. Lady's muff	16,220	Sept. 1	32	1014
Plympton, Nathaniel, New York, N. Y. Fan	15,878	Feb. 24	30	664
Poole, Edward, Boston, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	16,271	Sept. 22	32	1360
Porter, Henry K., Boston, Mass. Axle-voke	16,185	July 28	32	386
Porter, Henry K., Boston, Mass. Whiffletree-coupling	16,186	July 28	32	386
Pountney, William, Port Jervis, N. Y. Bottle	16,026	Apr. 7	31	1
Pountney, William, Port Jervis, N. Y. Bottle or jug	16,027	Apr. 7	31	1
Prahar, Louis B., assignor to himself and C. S. Shepard, Brooklyn, N. Y. Bag, pocket-book, &c., frame	15,957	Mar. 10	30	896
Pratt & Letchworth. (See Babcock, Charles A., assignor.)				
Preston, E. Bruce, Chicago, Ill. Rubber boot or shoe	16,908	Aug. 18	32	778
Fyne, Edmund, New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet	16,000	Mar. 24	30	1098
Quint, Henry F., and J. H. Mowen, Brooklyn, N. Y. Ornamentation of burial-caskets	16,418	Dec. 15	33	1270

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Rathbone, Clarence, Albany, N. Y. Parlor-stove.	16,335	Oct. 13	33	118
Read, Joseph A., and E. L. Caley, Philadelphia, Pa., assignors to G. Combs, J. and J. H. Bawden, Freehold, N. J. Fire-place grate.	16,133	June 16	31	1308
Read, Joseph A., and E. L. Caley, Philadelphia, Pa., assignors to G. Combs, J. and J. H. Bawden, Freehold, N. J. Fire-place grate.	16,142	June 30	31	1564
Reese, Durand A., Philadelphia, Pa. Badge.	16,367	Nov. 3	33	504
Rice, Bernard, New York, N. Y. Satchel-frame.	15,744	Jan. 20	30	182
Richmond Stove Company. (See Bascom and Helster, assignors.)				
Righter, Oscar, assignor to Dornan Bros. & Co., Philadelphia, Pa. Carpet.	{ 15,958 to 15,964 16,398 to 16,305 }	Mar. 10	30	896
Righter, Oscar, assignor to Dornan Bros. & Co., Philadelphia, Pa. Carpet.	{ 15,919 16,410 }	Sept. 29	32	1470
Roberts, William H., assignor to G. W. Ennis & Co., Philadelphia, Pa. Curtain fabric.	15,919	Mar. 3	30	778
Robison, Charles W., Allegheny, Pa. Lock-keeper.	16,410	Dec. 8	33	1142
Rogers & Bros., C. (See Rogers and Burr, assignors.)				
Rogers, Cephas B., and K. H. Burr, assignors to C. Rogers & Bros., Meriden, Conn. Coffin ornament.	16,411	Dec. 8	33	1142
Rogers, John, New Canaan, Conn. Group of statuary.	15,807	Feb. 10	30	453
Rogers, John, New Canaan, Conn. Group of statuary.	16,369	Nov. 3	33	504
Rogers, John K., Brookline, Mass. Font of printing-type.	15,777	Feb. 3	30	348
Rogers, Julius F., St. Joseph, Mo. Hitching-post.	16,306	Sept. 29	32	1470
Rosenbaum, Henry M., Philadelphia, Pa. Ace of spades for cards.	16,075	May 5	31	521
Rowland, Charles, Quincy, Ill. Drawer-pull.	15,688	Jan. 6	30	2
Roxbury Carpet Company. (See Melville, David G., assignor.)				
Roxbury Carpet Company. (See Stearns, Thomas J., assignor.)				
Ruff, Gregory L., Pittsburg, Pa. Jewelry-chain.	16,448	Dec. 29	33	1502
Russell & Erwin Manufacturing Company. (See Russell, Henry E., Jr., assignor.)				
Russell, Henry E., Jr., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-knob.	15,754	Jan. 27	30	264
Ruthven, Edwin C., Philadelphia, Pa., assignor to D. W. Bruce, New York, N. Y. Type.	10,449	Dec. 29	33	1502
Salomon, Siegfried, assignor to H. Bendix, New York, N. Y. Neckscarf.	15,688	Jan. 6	30	2
Sampson, Edward C. (See Meyer, Charles T. and V. E., assignors.)				
Sargent & Co. (See Jaworski, Hermann, assignor.)				
Sauer, Emil G., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.	{ 16,273 to 16,274 }	Sept. 22	32	1360
Sauer, Emil G., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.	16,336	Oct. 13	33	118
Saunders, Marcus L., Thomas County, Ga. Plow-hoe.	16,345	Oct. 20	33	939
Scatchard, Elmer E., assignor of one-half to E. Eddishaw, Philadelphia, Pa. Hosiery.	16,245	Sept. 8	32	1198
Schermerhorn, Rodney F., and F. S. Weller, assignors to W. V. Channon and J. W. Emery, Quincy, Ill. Heating-stove.	16,346	Oct. 20	33	939
Schermerhorn, Rodney F., and F. S. Weller, assignors to Channon, Emery & Company, Quincy, Ill. Heating-stove.	16,306	Nov. 24	33	892
Schoonmaker, Edward T., assignor to J. S. Conover & Co., New York, N. Y. Fire-place front.	{ 15,836 to 15,838 16,028 to 16,030 }	Feb. 17	30	562
Schreppel, Theodore, New York, N. Y. Ornamentation of picture-frames.	16,028	Apr. 7	31	1
Schwarzachild, August, and N. Greenfield, New York, N. Y. Candy or confectionery.	16,030	Apr. 7	31	1
Scott, Samuel F., and S. B. Bryar, Pittsburg, Pa. Jar or bottle.	15,613	Feb. 17	30	562
Selkirk, Alexander, assignor to L. Daniels, Albany, N. Y. Body of water filter or cooler.	10,404	Dec. 1	33	1000
Selkirk, Charles, assignor to Embossing Company, Albany, N. Y. Domino.	15,745	Jan. 20	30	182
Seltzer, Abram E., Lebanon, Pa. Back for paper-clips.	16,386	Nov. 17	33	762
Sharpe, George E., Steubenville, Ohio. Fire-place front.	15,699	Jan. 6	30	2
Shaw, Arthur, Hanley, county of Stafford, England, assignor to J. L. Mott Iron Works, New York, N. Y. Bowl and trap for water-closets.	16,356	Oct. 27	33	359
Shepard, Charles G., et al. (See Mueller, Julius, assignor.)				
Shepard, Charles G., and P. Adams, Jr.; said Adams assignor to W. J. Shepard, Buffalo, N. Y. Toy savings-bank.	16,171	July 14	32	140
Shepard, Charles S. (See Prahar, Louis B., assignor.)				
Shepard, Walter J. (See Shepard and Adams, assignors.)				
Shepard, Walter J., et al. (See Mueller, Julius, assignor.)				
Sherry, Louis, New York, N. Y. Dish or tureen.	16,193	Aug. 4	32	522
Shiehler, George W., Brooklyn, N. Y. Spoon-handle.	15,808	Feb. 10	30	453
Shirley, Frederick S., New Bedford, Mass. Glassware.	16,172	July 14	32	140
Sigourney, Frank W., Bristol, Conn. Cigar-holder.	16,125	June 9	31	1174
Simmons, Robert F., Attleborough Falls, Mass. Watch-chain.	15,879	Feb. 24	30	664
Simpson, Jerome W., assignor to Wheeler, Parsons & Hayes, Newark, N. J. Jewelry-chain.	16,307	Sept. 29	32	1470
Singer Manufacturing Company of New Jersey. (See Miller, Lebbers B., assignor.)				
Slattery, Marmaduke M. M., New York, N. Y. Filament.	15,839	Feb. 17	30	562
Sloan, Andrew J., et al. (See Heald, Alfred, assignor.)				
Smith, Frank E., New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet.	16,001	Mar. 24	30	1098
Smith, Frank E., New York, N. Y., assignor to Bigelow Carpet Company, Clinton, Mass. Carpet.	10,050	Apr. 14	31	124
Smith, Friend W., Bridgeport, Conn. Leaves of butt-hinges.	16,065	Apr. 28	31	382
Smith, Mark A., Evansville, Ind. Wash-board.	15,809	Feb. 10	30	453
Smith, Thomas W., London, England. Font of type.	16,032	Apr. 7	31	1
Smith, William, Philadelphia, Pa. Fringe or tassel block.	15,736	Jan. 13	30	102
Smith, William C., Warsaw, Mo. Heating-stove.	16,370	Nov. 3	33	504
Smith, William T. (See McCaffray, Patrick, assignor.)				
Smith, William T., Philadelphia, Pa. Rug.	15,778	Feb. 3	30	348
Smith, William T., Philadelphia, Pa. Rug.	15,980	Mar. 17	30	996
Sommer, Henry B., Philadelphia, Pa. Jewelry-box.	10,254	Sept. 15	32	1242
Sparks, William E., assignor to Kempshall Manufacturing Company, New Britain, Conn. Sash-fastener frame.	15,755	Jan. 27	30	984
Steal & Miller. (See Ferguson, Joseph, assignor.)				
Stearns, Edward C., Syracuse, N. Y. Casing for pulleys.	16,031	Apr. 7	31	1
Stearns, Thomas J., assignor to Roxbury Carpet Company, Boston, Mass. Carpet.	{ 16,063 16,064 }	Apr. 28	31	382
Stearns, Thomas J., assignor to Roxbury Carpet Company, Boston, Mass. Carpet.	16,093	May 19	31	794
Stone, David, New York, N. Y. Shawl or breast pin.	16,221	Sept. 1	32	1014
Streat, George, New York, N. Y. Textile fabric.	16,379	Nov. 10	33	639

Alphabetical list of patentees of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette.	
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Swanton, William H., Cambridge, Mass. Stove or range	16,077	May 5	31	521
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 15,700 to 15,709 }	Jan. 6	30	2
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 15,737 to 15,735 }	Jan. 13	30	102
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet.....	{ 15,840 to 15,846 }	Feb. 17	30	562
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	{ 16,275 to 16,287 }	Sept. 22	32	1360
Swapp, Charles W., New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet	{ 16,323 to 16,328 }	Oct. 13	33	117
Taylor, John N. (See Knowles, Taylor, and Knowles.)				
Thegen, William, Philadelphia, Pa. Badge	16,090	May 19	31	794
Thiele, Henry, Milwaukee, Wis. Rag carpet	16,084	May 12	31	668
Thomas, George C., Waterbury, Conn. Lamp-body	16,078	May 5	31	581
Thurber, Charles H., Brooklyn, assignor to Celluloid Brush Company, New York, N. Y. Ornamentation of brush-handles	16,100	May 19	31	794
Tiffany & Co. (See Grosjean, Charles T., assignor.)				
Tiffany & Co. (See Whitehouse, James H., assignor.)				
Tompkins, Samuel E., and J. F. Goodsell, Newark, N. J. Ornamentation for harness	16,114	May 26	31	920
Tully, Louise, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Miss's costume	15,690	Jan. 6	30	2
Tully, Louise, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's basque	15,691	Jan. 6	30	2
Turner, Mary, assignor to Butterick Publishing Company, (limited,) New York, N. Y. Lady's costume	15,689	Jan. 6	30	2
Turner & Seymour Manufacturing Company. (See Brothwell, John G., assignor.)				
Tuttle & Bailey Manufacturing Company. (See Namur, Auguste, assignor.)				
Underhill, Emily C., New York, N. Y. Medicine-spoon	16,033	Apr. 7	31	1
Van Alstine, Cornelius C. E., Paterson, N. J. Hair-crimp	16,143	June 30	31	1564
Vincent, Walter S., Burlington, Vt. Cake of soap	16,397	Nov. 24	33	852
Voorhees, Luther C., New York, N. Y. Buckle-frame	16,046	Apr. 14	31	123
Wadsworth, Edward C., Brooklyn, N. Y. Bottle	16,200	Aug. 11	32	676
Walker, George W., Malden, Mass. Radiator leg or loop	15,779	Feb. 3	30	348
Walsh, Francis A., Milwaukee, Wis. Lard-pail	15,847	Feb. 17	30	562
Waterhouse, Rufus, New York, N. Y. Ornamentation of a neckscarf	15,920	Mar. 3	30	778
Waterhouse, Rufus, New York, N. Y. Neckscarf	15,921	Mar. 3	30	778
Webb, Joseph, Beaver, Pa. Lamp globe or shade	{ 16,419 to 16,420 }	Dec. 15	33	1270
Weir, Daniel J., New York, N. Y. Pulley-frame	16,113	May 26	31	920
Weiss, William S., New York, N. Y. Clock-stand	16,157	July 7	32	2
Weller, Ferdinand S. (See Schermerhorn and Weller.)				
Wemyss, Alexander. (See Nascom and Wemyss.)				
Werner, Leopold, Newark, N. J. Ornamentation of a belt	16,158	July 7	32	2
West, James, Brooklyn, N. Y. Font of printing-type	15,923	Mar. 3	30	778
West, John, Brooklyn, N. Y. Font of printing-type	15,963	Mar. 10	30	896
Wettstein, Otto, Rochelle, Ill. Badge	15,880	Feb. 24	30	604
Wheeler, Candace, Jamaica, N. Y. Hangings, &c	16,337	Oct. 13	33	118
Wheeler, Parsons & Hayes. (See Simpson, Jerome W., assignor.)				
Whitehouse, James H., Brooklyn, assignor to Tiffany & Co., New York, N. Y. Badge	15,922	Mar. 3	30	778
Whitman, William S., assignor to Dancer Foundry and Machine Company, Bangor, Me. Range	16,202	Aug. 11	32	656
Whitall, Matthew J. (See Mitchell, Herbert, assignor.)				
Wiese, Max, Boston, Mass. Tile floor or pavement	15,760	Feb. 3	30	348
Wilkinson, William H., St. Louis, Mo. Cooking-stove	16,450	Dec. 29	33	1502
Winkelmann, John H. (See Ohrenschall, Frederick A., assignor.)				
Witteck, Charles, assignor to Dominick & Haft, New York, N. Y. Fork-handle	16,412	Dec. 8	33	1142
Wood, William, Lawrence, Mercer county, assignor to S. M. Alpaugh and F. A. Magowan, Trenton, N. J. Decorative pattern for dishes	16,043	Apr. 14	31	123
Woodward, George W., assignor to W. A. Hull and Ansonia Brass and Copper Company, New York, N. Y. Lamp-reservoir	15,781	Feb. 3	30	348
Woolsey, William W., Aiken, S. C. Dipper or skimmer	16,338	Oct. 13	33	118
Wooster, Fred V., Boston, Mass. Carriage-step	16,187	July 28	32	386
Worden, Homer, New York, N. Y. Bottle-case	16,188	July 28	32	386
Wynkoop, Henry, Philadelphia, Pa. Gimp	16,076	May 5	31	521
Wynkoop, Henry, Philadelphia, Pa. Gimp	16,144	June 30	31	1564
Yale & Towne Manufacturing Company. (See Manning, Alfred J., assignor.)				
Zebley, John, Philadelphia, Pa. Fringe	16,308	Sept. 29	33	1470

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Volume.	Page.
Abletine Medical Company, Oroville, Cal. Catarrh cure.....	12,747	Nov. 10	33	626
Abletine Medical Company, Oroville, Cal. Preparation for lung and throat diseases.....	12,748	Nov. 10	33	626
Abletine Medical Company, Oroville, Cal. Distillation from abletine-gum, and salves, ointments, and other compounds made therefrom.....	12,854	Dec. 15	33	1270
Able, James L., Little Rock, Ark. Remedy for chills and a liniment.....	12,789	Nov. 24	33	892
Acme Hub Company, (limited,) Dayton, Ohio. Wheel-hubs.....	12,790	Nov. 24	33	892
Acme Oil Company, Olean and New York, N. Y. Illuminating-oil.....	12,309	June 16	31	1308
Adam, Alexander B. (See Keith, Adam, Faxon, and Keith.)				
Adams, George E., Boston, Mass. Caramels.....	12,698	Oct. 27	33	360
Adams & Sons, New York, N. Y. Chewing-gum.....	12,175	Apr. 28	31	382
Adams & Sons, New York, N. Y. Chewing-gum.....	12,208	June 9	31	1174
Adams & Sons, New York, N. Y. Chewing-gum.....	12,343	June 30	31	1564
Adler Bros. & Co., Baltimore, Md. Oiled clothing.....	12,015	Mar. 17	30	998
Allen Company, Charles W., Chicago, Ill. Smoking and chewing tobacco.....	12,378	July 7	32	2
Allen Company, Charles W., Chicago, Ill. Smoking and chewing tobacco.....	12,662	Oct. 20	33	239
Allen Company, Charles W., Chicago, Ill. Smoking and chewing tobacco.....	12,663	Oct. 20	33	239
Allen Company, Charles W., Chicago, Ill. Smoking and chewing tobacco.....	12,664	Oct. 20	33	240
Allen Company, Charles W., Chicago, Ill. Smoking and chewing tobacco.....	12,669	Oct. 27	33	360
Allen Company, Charles W., Chicago, Ill. Smoking and chewing tobacco.....	12,791	Nov. 24	33	892
Allen & Co., S. L., Philadelphia, Pa. Agricultural implements named.....	12,765	Nov. 17	33	762
Allen & Co., William, New York, N. Y. Writing-ink.....	12,455	Aug. 4	32	522
Allen & Hanburys, London, England. Certain named drugs and medicines.....	11,853	Jan. 13	30	102
Allen, John H., New York, N. Y. Tablets and other preparations containing cocaine.....	12,454	Aug. 4	32	522
Allen, Merrill & Co., Washington, D. C. Remedy for the cure of fever and ague and diseases caused by malaria.....	12,261	May 26	31	920
Allsopp & Sons, Samuel, Burton-on-Trent, county of Stafford, England. Malt liquors.....	12,401	July 14	32	140
Alter, Oscar A., Manitowoc, Wis. Application for chapped hands, face, &c.....	12,032	Mar. 24	30	1098
Amato, Pietro, Dallas, Tex. Hair-dressing.....	12,653	Oct. 13	33	118
Amend, Bernard G., New York, N. Y. Antidote for rheumatism.....	12,700	Oct. 27	33	360
American Vapor Stove Company, Cleveland, Ohio. Vapor cooking and heating stoves.....	12,377	July 7	32	2
American Writing Machine Company, New York, N. Y. Writing-machines.....	12,147	Apr. 21	31	267
American Writing Machine Company, New York, N. Y. Writing-machines.....	12,168	Apr. 21	31	268
Amos, William L., Fallston, Md. Evaporated sugar-corn.....	12,871	Dec. 22	33	1394
Anduran & Co., C., San Francisco, Cal. Native wines and brandies.....	12,889	Dec. 20	33	1502
Ansar, Harford & Co., London, county of Middlesex, England. Cod-liver oil.....	12,766	Nov. 17	33	762
Anthony & Kuhn Brewing Company, St. Louis, Mo. Bottled lager-beer.....	12,033	Mar. 24	30	1098
Armstrong & Co., James, Baltimore, Md. Soap for laundry and general household purposes.....	12,701	Oct. 27	33	360
Arnold & Co., F. R., New York, N. Y. Perfumery.....	12,056	Mar. 31	30	1210
Arps, George L., Norfolk, Va. Manufactured guano.....	11,906	Feb. 10	30	453
Ash, William T., Lynn, Mass. Kid-skins of a peculiar finish and boots and shoes made therefrom.....	11,990	Mar. 10	30	896
Auerbach, Louis, New York, N. Y. Gentlemen's neckscarfs.....	12,810	Dec. 1	33	1000
Austin, Nichols & Co., New York, N. Y. Crushed hominy.....	12,330	June 23	31	1448
Ayres & Sons, William, Philadelphia, Pa. Saddle-blankets, fly-nets, horse-sheets, lap-ropes, and lap-dusters.....	12,016	Mar. 17	30	998
Ayres & Sons, William, Philadelphia, Pa. Horse-blankets.....	12,456	Aug. 4	32	522
Ayres & Sons, William, Philadelphia, Pa. Horse-blankets.....	12,457	Aug. 4	32	522
Ayres & Sons, William, Philadelphia, Pa. Blankets and lap-ropes.....	12,635	Oct. 13	33	118
Babcock Printing Press Manufacturing Company, New London, Conn. Printing-presses.....	12,552	Sept. 8	32	1128
Babillon, John, Detroit, Mich. Mixed tea.....	12,199	May 5	31	522
Babillon, John, Detroit, Mich. Mixed tea.....	12,200	May 5	31	522
Bache & Co., Semon, New York, N. Y. Mirror-plates.....	12,299	June 9	31	1174
Backer, Mathias. (See Fuaz and Backer.)				
Badger State Fly Paper Company, Milwaukee, Wis. Fly-paper.....	12,636	Oct. 13	33	118
Baer's Sons, Simon, Wheeling, W. Va. Roasted coffee.....	12,723	Nov. 3	33	504
Belas, Frères, Chamond, France. Braids and laces.....	12,508	Aug. 18	32	778
Balfour, Guthrie & Co., San Francisco, Cal. Coke.....	11,907	Feb. 10	30	453
Ball, Clinton M., Boston, Mass. Incandescent lamps.....	12,538	Sept. 1	32	1014
Ball, Clinton M., Boston, Mass. Substitute for carbon filament in incandescent lamps.....	12,539	Sept. 1	32	1014
Ballard & Co., Stephen, New York, N. Y. Certain-named rubber goods.....	12,063	Apr. 7	31	2
Ballard, James F., St. Louis, Mo. Liniment.....	12,331	June 23	31	1448
Barkley & Co., J. C., Baltimore, Md. Roasted coffee, ground or unground.....	12,226	May 19	31	668
Barnet, Joaquin, Havana, Cuba. Peptone-wine.....	12,071	Apr. 7	31	1
Barrett, Mary, Elgin, Ill. Salve or ointment.....	12,883	Dec. 20	33	1502
Barlett & Sons, William, Redditch, county of Worcester, England. Needles for hand-sewing.....	12,584	Sept. 22	32	1360
Barlett & Sons, William, Redditch, county of Worcester, England. Needles, toilet-pins, bodkins, and crochet-hooks.....	12,585	Sept. 22	32	1360
Barlett & Sons, William, Redditch, county of Worcester, England. Materials for out-of-door games.....	12,654	Oct. 13	33	118
Barton, William E., Syracuse, N. Y. Cigars, smoking and chewing tobacco, and cigarettes.....	12,297	June 2	31	1048
Bates, Reed & Cooley, New York, N. Y. Plain woven silks.....	12,024	Apr. 7	31	2
Bates, Theodore C., Worcester, Mass. Corsets.....	11,878	Jan. 27	30	264
Beall & Steele, Steubenville, Ohio. Cathartic cordial.....	12,402	July 14	32	140
Bean & Hurlbut, Philadelphia, Pa. Perfume.....	11,991	Mar. 10	30	896
Beardsley, John D., Ithaca, N. Y. Remedy for rheumatism.....	12,509	Aug. 18	32	778
Beck & Co., Fr., New York, N. Y. Wall and ceiling paper-hangings.....	12,240	May 19	31	794
Bechtel, George, Edgewater, N. Y. Lager-beer.....	12,767	Nov. 17	33	762
Beer Company, B. F., Norwich, Conn. Bottled condiment.....	12,869	Dec. 15	33	1270
Bendiner, Samuel J., New York, N. Y. Compound preparation of cod-liver oil.....	12,133	Apr. 14	31	121
Bennet, William J., Cleveland, Ohio. Compound for the cure of diseases of the head and throat.....	12,892	Dec. 29	33	1502
Bentley, Charles E., New York, N. Y. Silk braid.....	12,241	May 19	31	774
Bentsen, Charles A., New York, N. Y. Washing-machine.....	12,553	Sept. 8	32	1128

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Beresford, George C., New York, N. Y. Cholera preventive	12,566	Sept. 15	32	1942
Berger & Engel Browing Company, Philadelphia, Pa. India pale ale, ale, porter, and brown-stout	12,568	Aug. 25	32	898
Berkfeld, William, Hanover, Germany. Non-conducting compound for covering heated surfaces	12,601	Dec. 29	33	1502
Birmingham, Elijah F., New York, N. Y. Shirts	12,085	Apr. 7	31	2
Birmingham, Elijah F., New York, N. Y. Furnishing-goods and underwear	12,262	May 26	31	920
Bernard & Co., Beverly, Mass. Toilet-soap	12,605	Oct. 20	33	240
Bernheimer & Bro., Jacob S., New York, N. Y. Printed, dyed, colored, bleached, and unbleached cottons	11,948	Feb. 17	30	522
Best Brewing Company, Phillip, Milwaukee, Wis. Beer	12,739	Nov. 3	33	504
Best Brewing Company, Phillip, Milwaukee, Wis. Beer	12,740	Nov. 3	33	504
Bicchele, Joseph, Canton, Ohio. Bar-soap	12,057	Mar. 31	30	1210
Bicchele, Joseph, Canton, Ohio. Hard soap	12,300	June 9	31	1174
Bigelow, Charles. (See Healy and Bigelow.)				
Birch & Co., J. S., New York, N. Y. Watch-keys	12,114	Apr. 14	31	124
Bird, Alfred F., Philadelphia, Pa. Custard-powder	11,908	Feb. 10	30	453
Bird, Alfred F., Philadelphia, Pa. Blanc-mange powder	12,115	Apr. 14	31	124
Bird, Alfred F., Philadelphia, Pa. Medicinal powders	12,116	Apr. 14	31	124
Bird, Alfred F., Philadelphia, Pa. Egg-powder	12,117	Apr. 14	31	124
Blackwell, William J. (See Maginnis and Blackwell.)				
Blakey, John, Leeds, county of York, England. Sectional metallic protectors for the soles and heels of boots and shoes	12,666	Oct. 20	33	240
Blakey, John, Leeds, county of York, England. Sectional metallic protectors for soles and heels of boots and shoes	12,637	Dec. 15	33	1270
Blanc, Jerome E., New York, N. Y. Vegetable depurative	12,072	Apr. 7	31	2
Bledsoe, Henry, Fort Worth, Tex. Self-spacing type	12,611	Dec. 1	33	1000
Blome, George J., Baltimore, Md. Candy	12,458	Aug. 4	32	522
Bloomer, William J., New York, N. Y. Shirts, shirt-waists, and drawers	12,600	Dec. 29	33	1502
Bloomingdale & Rich, New York, N. Y. Hair- tonic	12,344	June 30	31	1764
Blumenthal, Sigmund, New York, N. Y. Violin, guitar, and banjo strings	12,792	Nov. 24	33	892
Blumenthal, Sigmund, New York, N. Y. Violin-strings	12,773	Nov. 24	33	892
Boden Condensed Milk Company, Detroit, Mich. Condensed milk	12,635	Dec. 15	33	1270
Boker & Co., Hermann, New York, N. Y. Shotguns and rifles	12,156	Apr. 21	31	924
Boker & Co., Hermann, New York, N. Y. Cutlery	12,323	June 16	31	1188
Booth, Charles, London, England. Gin	12,450	Aug. 4	32	522
Booth & Kent, New York and Gloversville, N. Y. Shoe and glove leather	12,176	Apr. 28	31	392
Boott Cotton Mills, Lowell, Mass. Brown and bleached cotton sheetings	12,702	Oct. 27	33	370
Boott Cotton Mills, Lowell, Mass. Brown and bleached cotton sheetings	12,749	Nov. 10	33	626
Boott Cotton Mills, Lowell, Mass. Brown and bleached cotton sheetings	12,750	Nov. 10	33	626
Boin, Jacob, New Orleans, La. Stoves and ranges for cooking and heating purposes	12,332	June 23	31	1448
Borzner, Nicolaus, Philadelphia, Pa. Canned tomatoes	12,472	Aug. 4	32	522
Bossange, Gustave, New York, N. Y. Fabrics for ladies' and children's dresses	12,134	Apr. 14	31	124
Boatle Bros. & Wright, Shelby, N. C. Plug-tobacco	12,617	Mar. 17	30	968
Boston Rubber Company, Boston, Mass. Dental rubber	12,636	Dec. 15	33	1270
Bowers, James, Newark, N. J. Corsets	12,691	Dec. 29	33	1502
Boyle, John, Brooklyn, N. Y. Liniment	12,073	Apr. 7	31	2
Bradley, Voorhees & Day Manufacturing Company, (limited,) New York, N. Y. Spiral busties	12,529	Aug. 25	32	898
Brainerd & Armstrong Company, New London, Conn. Sewing and embroidery silk	12,694	Dec. 29	33	1502
Bravo & Son, J. R., Susquehanna Depot, Pa. Cigars	12,614	Oct. 6	33	2
Bravo & Son, J. R., Susquehanna Depot, Pa. Cigars	12,615	Oct. 6	33	2
Brenner, John, Covington, Ky. Lager-beer	12,667	Oct. 20	33	240
Bridenthal, Ezekiah, Vincennes, Ind. Wheat-germ flakes	12,540	Sept. 1	32	1014
Brinkmann, Augustus H., Baltimore, Md. Dress-shields	12,345	June 30	31	1564
Brinkmann, Augustus H., Baltimore, Md. Dress-shields	12,435	July 21	32	560
Brockner, Washington, and L. E. Evans, New York, N. Y. Wire-netting for fencing, cages, &c.	12,201	May 5	31	522
Brockhane, Alfred V., New York, N. Y. Razors, razor-guards, razor-strops, and shaving-cream	12,417	July 21	32	560
Brotherhood, James, Stratford, Ontario, Canada. Instruments for exercising the fingers, hands, and wrists	12,310	June 16	31	1308
Brown, Benjamin, New York, N. Y. Laundry-starch	12,534	Sept. 8	32	1128
Brown, John W., Philadelphia, Pa. Canned goods for food	12,566	Sept. 22	32	1300
Brown, Lyman, New York, N. Y. Astringent extracts	11,892	Mar. 10	30	696
Brussels Tapestry Company, New York, N. Y. Textile fabrics having woven figures thereon	12,265	June 2	31	1048
Ballard & Foster, Keene, N. H. Natural mineral-spring water	12,302	May 5	31	522
Burk, Rich & Co., Detroit, Mich. Cigars	11,864	Feb. 24	30	664
Burlingame, George D., Chicago, Ill. Baking-powder	12,839	Dec. 15	33	1270
Burns & Sons, Jabez, New York, N. Y. Spice-mills	12,696	Dec. 29	33	1502
Burrell & Whitman, Little Falls, N. Y. Cheese	12,724	Nov. 3	33	504
Barroughs, Wellcome & Co., London, England. Medicinal fluid extracts for internal use	11,603	Jan. 20	30	122
Barroughs, Wellcome & Co., London, England. Lozenges or other medicinal preparations in solid form	11,993	Mar. 10	30	696
Burton Handle Company, Burton, Ohio. Cultivator	11,891	Feb. 3	30	348
Burton, Oscar F., Brooklyn, N. Y. Remedy for catarrh	12,058	Mar. 31	30	1210
Busnitz & Co., S., Richmond, Va. Smoking and chewing tobacco, cigars, cigarettes, and snuff	12,541	Sept. 1	32	1014
Busnitz & Co., S., Richmond, Va. Smoking and chewing tobacco, cigars, cigarettes, and snuff	12,542	Sept. 1	32	1014
Busnitz & Co., S., Richmond, Va. Smoking and chewing tobacco, cigars, cigarettes, and snuff	12,695	Oct. 20	33	240
Butler Paper Company, J. W., Chicago, Ill. White or light-colored printing, writing, and wrapping paper	12,333	June 23	31	1448
Butler Paper Company, J. W., Chicago, Ill. Printing, writing, and wrapping paper	12,515	Aug. 18	32	778
Butler Paper Company, J. W., Chicago, Ill. Printing, writing, and wrapping paper	12,768	Nov. 17	33	762
Button, Helen, Norwich, Conn. Medicine for diseases of the throat and lungs	12,242	May 19	31	794
Button & Otley, New York, N. Y. Shoe and leather dressing and blacking	12,243	May 19	31	794
California Fig Syrup Company, Reno, Nev., and San Francisco, Cal. Liquid purgative compounds	12,118	Apr. 14	31	124
Cammeeyer, Alfred J., New York, N. Y. Boots, shoes, and slippers	12,334	June 23	31	1448
Cammeeyer, Alfred J., New York, N. Y. Boots, shoes, and slippers	12,567	Sept. 15	32	1242
Cammeeyer, Alfred J., New York, N. Y. Boots, shoes, and slippers of all kinds	12,668	Oct. 20	33	240
Canfield Rubber Company, Middletown, Conn. Dress-shields	12,018	Mar. 17	30	998
Canfield Rubber Company, Bridgeport, Conn. Dress-shields	12,244	May 19	31	794
Canton Paint and Oil Company, Saco, Me., and Boston, Mass. Oil-dressing for leather and fabrics	12,169	Apr. 21	31	968
Carrick, John, New York, N. Y. Certain preparations of cod-liver oil	12,177	Apr. 28	31	382
Carpenter & Co., B. W., Burlington, Vt. Dentifrice	12,655	Oct. 13	33	118
Carroll & Brother, J. Bond, Baltimore, Md. Whitewash-brushes	12,543	Sept. 1	32	1014
Carstairs, McCall & Co., Philadelphia, Pa., and New York, N. Y. Champagne	12,774	Nov. 24	33	892
Case & Willard Thresher Company, Battle Creek, Mich. Thrashing-machines and engines	12,170	Apr. 21	31	968
Cash, J. & J., Coventry, England. Ribbon	11,843	Jan. 6	30	9

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Name, residence, and title.	No.	Date.	Official Gazette.	
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Castell, Henry. (See Castell, John and H.)				
Castell, John and H., London, England. Christmas, New-Year, Easter, birthday, Scriptural, and other cards.	12,840	Dec. 15	33	1270
Castner & Co., (limited), Philadelphia, Pa. Bituminous and semi-bituminous coal.	12,602	Sept. 29	32	1470
Caswell, Livermore & Co., Boston, Mass. Boneless cod-fish.	12,119	Apr. 14	31	124
Caswell, Livermore & Co., Boston, Mass. Boneless fish.	12,135	Apr. 14	31	124
Celluloid Novelty Company, New York, N. Y. Certain cuffs, collars, and shirt-fronts.	12,157	Apr. 21	31	268
Central Oil Company, Galion, Ohio. High-test carbon oil for lighting purposes.	12,460	Aug. 4	32	522
Ceylon Tea and Coffee Agency, London, England. Coffee, tea, and cocoa.	12,447	July 28	32	366
Chanteaud, Antoine C., Paris, France. A medicine, the vehicle of which is in granular form.	12,346	June 30	31	1564
Chapin & Gould, Springfield, Mass. Writing-paper.	11,949	Feb. 17	30	569
Chapman Valve Manufacturing Company, Indian Orchard and Boston, Mass. Valves and hydrants.	12,029	Mar. 17	30	998
Chase, Andrew J., Boston, Mass. Refrigerators.	11,864	Jan. 20	30	128
Chase & Sanborn, Boston, Mass. Roasted and roasted and ground coffee.	12,795	Nov. 24	33	892
Chesebrough Manufacturing Company, (consolidated), Brooklyn, N. Y. Petroleum-oil for illuminating purposes.	12,876	Dec. 29	33	1502
Chester Oil Company, Philadelphia, Pa. Refined petroleum.	12,252	May 19	31	794
Childs & Co., New York, N. Y. Whisky, brandy, and gin.	11,950	Feb. 17	30	562
Childs, William H. H., New York, N. Y. Disinfectant and moth-destroyer in cake, powder, and liquid form.	11,994	Mar. 10	30	896
Churob Finish Company, Grand Rapids, Mich. Compound for coating walls.	12,086	Apr. 7	31	2
Churchill's Inhalants Company, (limited), J. F., London, England. Medicinal preparations for the cure of respiratory diseases.	12,656	Oct. 13	33	118
Clark, Henry, trustee. (See Massam, Clark and Phillips.)				
Clark & Keen, Philadelphia, Pa. Worsted cloakings.	12,301	June 9	31	1174
Clark Thread Company, Newark, N. J. Spool-cotton.	12,158	Apr. 21	31	268
Clemson, George N., Middletown, N. Y. Bracket, hack, and meat saws.	12,263	May 26	31	920
Clingman, Thomas L., Asheville, N. C. Ointments, plasters, and liniments.	11,909	Feb. 10	30	453
Clotworthy, William P., Baltimore, Md. Baking-powder.	12,120	Apr. 14	31	124
Colburn, Birks & Company, Peoria, Ill. Whisky.	12,703	Oct. 27	33	360
Colburn, Birks & Company, Peoria, Ill. Distillation from Italian juniper-berries.	12,725	Nov. 3	33	504
Cold Blast Feather Company, Chicago, Ill. Feathers for beds, pillows, and bolsters.	12,059	Mar. 31	30	1210
Coleman & Co., William T., San Francisco, Cal. Raisins.	12,669	Oct. 20	33	240
Colgate & Co., New York, N. Y. Toilet-soap.	11,995	Mar. 10	30	896
Colgate & Co., New York, N. Y. Toilet and laundry soap.	12,704	Oct. 27	33	360
Colgate & Co., New York, N. Y. Toilet and laundry soap.	12,726	Nov. 3	33	504
Collins Brothers Drug Company, St. Louis, Mo. Root and herb cordial.	12,074	Apr. 7	31	2
Collins Brothers Drug Company, St. Louis, Mo. Lemon ginger, a remedy for coughs, &c.	12,087	Apr. 7	31	2
Commercial Oil and Soap Company, Parkersburg, W. Va. Laundry-soap.	12,286	June 2	31	1048
Commercial Rubber Company, New York, N. Y. Rubber hose.	12,555	Sept. 8	32	1128
Compagnie Peptones de Viande du Docteur Koebs, (Société Anonyme), Antwerp, Belgium. Peptonized meat.	11,892	Feb. 3	30	348
Comstock, William H., Morristown, N. Y. Pills.	12,277	June 2	31	1048
Comstock, William H., Morristown, N. Y. Pills.	12,278	June 2	31	1048
Condell, William, St. Louis, Mo. Baking-powder.	12,253	May 19	31	794
Conover, George W., Philadelphia, Pa. Smoking-tobacco and cigarettes.	12,670	Oct. 20	33	240
Converse, Edmund C., Pittsburg, Pa. Alloys used for coating metal articles.	11,965	Feb. 24	30	664
Cook & Bernheimer, New York, N. Y. Brandy.	11,996	Mar. 10	30	896
Coöperative Hat Company of South Norwalk, South Norwalk, Conn. Hats.	12,751	Nov. 10	33	626
Cooper & Nephews, William, Berkhamstead, England. Sheep-dipping powder or insecticide.	12,507	Aug. 11	32	656
Copeland, Henry, Rich Square, N. C. Powders for the cure of cholera in animals and fowls.	12,347	June 30	31	1564
Covell, Alexander H., New Bedford, Mass. Remedy for stimulating the spine, &c.	11,854	Jan. 13	30	102
Cox Shoe Manufacturing Company, P., Rochester, N. Y. Boots and shoes for men, boys, women, and children.	11,879	Jan. 27	30	264
Cox Shoe Manufacturing Company, P., Rochester, N. Y. Boots and shoes for misses and children.	12,203	May 5	31	522
Craigbill, Robert T. (See Wright and Craigbill.)				
Crane & McMahon, New York, N. Y. Spokes, rims, hubs, and other carriage wood-ware.	12,060	Mar. 31	30	1210
Crane & McMahon, New York, N. Y. Wood-ware for vehicles.	12,061	Mar. 31	30	1210
Crane & McMahon, New York, N. Y. Spokes, rims, shafts, bows, sawed felices, hubs, rim-strips, and other carriage wood-ware.	12,062	Mar. 31	30	1210
Crane, Z., Jr., & Bro. Dalton, Mass. Writing-paper of all kinds.	12,812	Dec. 1	33	1000
Creagh, John B., Philadelphia, Pa. Havana leaf-tobacco.	11,893	Feb. 3	30	348
Crescent Watch Case Company, Brooklyn, N. Y. Watch-cases.	12,841	Dec. 15	33	1270
Crew, Widgey & Co., Bristol, England. Butter and cheese.	12,530	Aug. 25	32	698
Crist, Philip, Baltimore, Md. Remedy for horse-colic.	12,769	Nov. 17	33	762
Crocker Manufacturing Company, Holyoke, Mass. Matrix-paper.	12,264	May 26	31	920
Croft & Allen, Philadelphia, Pa. Preserved cocoanut.	12,359	June 30	31	1564
Croser & Son, Samuel A., Upland, Pa. Woven cotton stripes and plaids.	12,697	Dec. 29	33	1502
Crump, E. Parks, Baltimore, Md. Remedy for uterine and womb diseases.	12,813	Dec. 1	33	1000
Culter & Proctor Stove Company, Peoria, Ill. Cook-stoves.	12,311	June 16	31	1308
Culter & Proctor Stove Company, Peoria, Ill. Wood-burning base-heating stove.	12,379	July 7	32	9
Curtis & C., N., Boston, Mass. Shoes.	12,616	Oct. 6	33	2
Cusimano & Co., A., Palermo, Italy, New Orleans, La., Boston, Mass., and New York, N. Y. Macaroni.	12,034	Mar. 24	30	1098
Dadrian, Markar G., New York, N. Y. Medicinal beverage made from fermented milk.	12,556	Sept. 8	32	1128
Dalmo Company, Cleveland, Ohio. Medicine for horses.	12,531	Aug. 25	32	698
Danheiser Bros. & Co., Chicago, Ill. Chewing-gums.	12,804	May 5	31	582
Danner, August, Allegheny, Pa. Liquid medicines for the cure of impure blood or deranged bowels.	12,335	June 23	31	1448
Danville Refining Company, Danville, Ill. Maize-starch.	12,360	June 30	31	1564
Davenport, J. T., Bloomsbury, London, England. Sedative, anti-spasmodic, and diffusible stimulant.	11,855	Jan. 13	30	102
Davidson, Gustave, Kansas City, Mo. Cigars.	12,510	Aug. 18	32	778
Davis & Co., Curtis, Boston, Mass. Hard soap.	12,279	June 2	31	1048
Davis & Co., Hiram W., Cincinnati, Ohio. Carriages, phaetons, buggies, spring-wagons, and other like vehicles.	11,856	Jan. 13	30	102
Davis, Isaac, Dayton, Ohio. High-test carbon-oil.	12,671	Oct. 20	33	240
Davis, James E., Detroit, Mich. Disinfectant.	12,544	Sept. 1	32	1014
Davis, Thomas E., Summit Hill, Pa. Cleansing preparation in fluid form for garments, the toilet, &c.	12,796	Nov. 24	33	892
Day, Jennie W. (See Slocomb and Day.)				
De Castro & Donner S. R. Company, New York, N. Y. Refined hard sugar.	12,898	Dec. 29	33	1502
De Montebello & Co., Alfred, Château de Mareuil Sur Ay, Marne, France. Champagne-wine.	12,068	Apr. 7	31	2
De Susini, Joseph, New York, N. Y. Cigars and all other manufactured tobacco.	12,138	Apr. 14	31	124
De Winter, John B. A., New York, N. Y. Corn-plasters.	11,910	Feb. 10	30	453
De Witt Wire Cloth Company, New York, N. Y., and Philadelphia, Pa. Wire-cloth.	12,836	Dec. 8	33	1142

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Desbrough, George, Utica, N. Y. French uterine suppositories	12,159	Apr. 21	31	268
Dewey & Co., A. G., Hartford, Vt. Satinets or woolen cloths or clothing made therefrom	11,997	Mar. 10	30	296
Diamond Roller Skate Company, Richmond, Ind. Roller-skates	12,075	Apr. 7	31	2
Dick, Dundas, New York, N. Y. Medicinal preparation for nervous affections	12,462	Aug. 4	32	522
Dieterich, D. P., Philadelphia, Pa. Sheet metal for packing and other purposes	12,035	Mar. 24	30	1098
Dieterich, D. P., Philadelphia, Pa. Water, steam, and other valves	12,036	Mar. 24	30	1098
Dietz, Robert E., New York, N. Y. Portable stoves	12,089	Apr. 7	31	2
Dietz, Robert E., New York, N. Y. Lamps and lanterns	12,448	July 28	32	386
Dill, Joseph G., Richmond, Va. Chewing and smoking tobacco	12,427	July 21	32	260
Dill, Joseph G., Richmond, Va. Chewing and smoking tobacco	12,428	July 21	32	260
Dill, Joseph G., Richmond, Va. Plug-tobacco	12,705	Oct. 27	33	380
Dill, Joseph G., Richmond, Va. Chewing and smoking tobacco	12,770	Nov. 17	33	762
Dill, Joseph G., Richmond, Va. Chewing and smoking tobacco	12,771	Nov. 17	33	762
Domestic Sewing Machine Company, New York, N. Y. Sewing-machines and attachments	12,254	May 19	31	794
Dudley, Edward, Camden, N. J. Desiccated cocoanut	12,545	Sept. 1	32	1014
Duffy Malt Whiskey Company, Baltimore, Md. Malt whiskey	11,998	Mar. 10	30	296
Duffy Malt Whiskey Company, Baltimore, Md. Malt whiskey	12,121	Apr. 14	31	124
Dukehart & Co., J., Baltimore, Md. Gilling-thread	12,461	Aug. 4	32	522
Dunn, George V., New York, N. Y. Cure for malarial diseases	12,280	June 2	31	1048
Dunn, George V., New York, N. Y. Remedy for malarial diseases	12,391	July 7	32	2
Eagar, Martin F., Halifax, Nova Scotia, Canada. Remedy for pulmonary diseases	12,905	May 5	31	522
Eagle Pencil Company, New York, N. Y. Lead-pencils and pen-holders	12,090	Apr. 7	31	2
Eagle Pencil Company, New York, N. Y. Lead-pencils	12,091	Apr. 7	31	2
Eagle Pencil Company, New York, N. Y. Lead-pencils	12,092	Apr. 7	31	2
Eagle Pencil Company, New York, N. Y. Lead-pencils	12,093	Apr. 7	31	2
Eagle Pencil Company, New York, N. Y. Lead-pencils	12,094	Apr. 7	31	2
Eagle Pencil Company, New York, N. Y. Lead-pencils and pen-holders	12,095	Apr. 7	31	2
Eagle Pencil Company, New York, N. Y. Knives	12,122	Apr. 14	31	124
Earhart, George W., Columbus, Ohio. Coffee, either green or roasted	12,096	Apr. 7	31	2
Eastley Bros., South Boston, Va. Smoking and chewing tobacco	11,865	Jan. 20	30	182
East Hartford Manufacturing Company, East Hartford, Conn. Writing-paper	12,242	Dec. 15	33	1270
Eastman & Brother, Philadelphia, Pa. Perfumery and toilet-soaps	11,966	Feb. 24	30	664
Eastman & Brother, Philadelphia, Pa. Essences and toilet-soap	12,243	Dec. 15	33	1270
Edmondson, J. & R., Manchester, county of Lancaster, England. Velvets, velveteens, corduroys, mole-skins, alscias, and linings	11,999	Mar. 10	30	296
Eiser, Joseph, Baltimore, Md. Drawers, overalls, and pantaloons	11,880	Jan. 27	30	264
Elliman Sons & Co., Slough, county of Birmingham, England. Embrocation	12,617	Oct. 6	33	2
Ellis Brothers, Boston, Mass. Butter	12,884	Dec. 29	33	1502
Else, Linnie C., Reading, Pa. Cosmetic	12,877	Dec. 29	33	1502
Elson, Hall & Co., Chicago, Ill. Rubber clothing and oil-clothing	12,148	Apr. 21	31	267
Emmitt, James, Waverly, Ohio. Whiskies	12,265	May 26	31	920
Empire Soap Company, St. Louis, Mo. Toilet and laundry soap	12,149	Apr. 21	31	267
Empire Soap Company, St. Louis, Mo. Laundry and other soaps for scrubbing purposes	12,178	Apr. 28	31	328
Empire Soap Company, St. Louis, Mo. Laundry and other soaps	12,179	Apr. 28	31	328
Empire Soap Company, St. Louis, Mo. Laundry and other soaps	12,180	Apr. 28	31	328
Empire Soap Company, St. Louis, Mo. Laundry and other soaps	12,181	Apr. 28	31	328
Empire Soap Company, St. Louis, Mo. Laundry and other soaps	12,206	May 5	31	522
Erv, David S., Bovertown, Pa. Cigars	12,899	Dec. 29	33	1502
Esterbrook Steel Pen Manufacturing Company, Camden, N. J. Metallic pens	12,327	May 12	31	668
Esterbrook Steel Pen Manufacturing Company, Camden, N. J. Metallic pens	12,328	May 12	31	668
Evans, E. M., Palmyra, Ohio. Cough-medicine	12,245	May 19	31	794
Evans, Lemuel E. (See Brockner and Evans.)				
Fahys & Co., Joseph, New York, N. Y. Watch-cases	12,693	Oct. 20	33	240
Fairbank Canning Company, Chicago, Ill. Canned beef or cooked compressed corned beef	12,614	Dec. 1	33	1000
Fairbank & Co., N. K., Chicago, Ill. Laundry-soap	12,308	May 5	31	522
Fairbank & Co., N. K., Chicago, Ill. Family soaps	12,254	May 19	31	794
Fairbank & Co., N. K., Chicago, Ill. Family soaps	12,463	Aug. 4	32	522
Fairbank & Co., N. K., Chicago, Ill. Family soaps	12,464	Aug. 4	32	522
Fairbank & Company, N. K., Chicago, Ill. Laundry and toilet soap	12,856	Dec. 15	33	1270
Fairbank & Company, N. K., Chicago, Ill. Laundry and toilet soap	12,857	Dec. 15	33	1270
Fairchild Bros. & Foster, New York, N. Y. Food for infants	12,418	July 21	32	778
Fall River Bleachery, Fall River, Mass. Bleached cotton goods	12,207	May 5	31	522
Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Remedy for certain indicated diseases	12,511	Aug. 18	32	260
Farmers' Fertilizer Company, Syracuse, N. Y. Chemical fertilizers	11,866	Jan. 20	30	182
Faxon, Albert E. (See Keith, Adam, Faxon, and Keith.)				
Fearey Manufacturing Company, Albany, N. Y. School-shoes	12,772	Nov. 17	33	762
Fearon, Low & Co., New York, N. Y. Gray and bleached sheetings, shirtings, drills, and jeans	12,302	June 9	31	1174
Fearon, Low & Co., New York, N. Y. Gray and bleached sheetings, shirtings, drills, and jeans	12,360	July 7	32	2
Fearon, Low & Co., New York, N. Y. Sheetings, shirtings, drills, and jeans	12,574	Sept. 15	32	1242
Fearon, Low & Co., New York, N. Y. Sheetings, shirtings, drills, and jeans	12,575	Sept. 15	32	1242
Fearon, Low & Co., New York, N. Y. Sheetings, shirtings, drills, and jeans	12,576	Sept. 15	32	1242
Fearon, Low & Co., New York, N. Y. Sheetings, shirtings, drills, and jeans	12,577	Sept. 15	32	1242
Fearon, Low & Co., New York, N. Y. Sheetings, shirtings, drills, and jeans	12,578	Sept. 15	32	1242
Fearon, Low & Co., New York, N. Y. Sheetings, shirtings, drills, and jeans	12,587	Sept. 22	32	1260
Felgner & Son, F. W., Baltimore, Md. Smoking and chewing tobacco, snuff, cigars, cigarettes, and cheroots	12,287	June 2	31	1048
Felgner & Son, F. W., Baltimore, Md. Smoking and chewing tobacco, cigars, cigarettes, cheroots, and snuff	12,694	Oct. 20	33	240
Fisher & Wise, Boston, Mass. Wheat-flour	12,324	June 16	31	1208
Fisher & Wise, Boston, Mass. Wheat-flour	12,348	June 30	31	1564
Flaccus & Son, William, Pittsburg, Pa. Oak-tanned harness-leather	11,867	Jan. 20	30	182
Fleming, Charles F. (See Fleming, George A. and C. F.)				
Fleming, George A. and C. F., San José, Cal. Prunes	12,672	Oct. 20	33	240
Fleming, George H. and C. F., San José, Cal. Dried prunes	12,706	Oct. 27	33	360
Florida Wine Company, Philadelphia, Pa. Orange-wine	12,139	Apr. 14	31	124
Forbes, J. P. and F. A. Plaisted, San Francisco, Cal. Certain natural mineral water	12,909	May 5	31	522
Ford & Co., Stephen V. R., Fuller's Station, N. Y. Liquid hair-restorative	12,557	Sept. 8	32	1128
Fowler, George, Kansas City, Kans. Cured pork	12,140	Apr. 14	31	124
Frank & Gutmann, New York, N. Y. Dress-shields	12,063	Mar. 31	30	1210
Frank & Gutmann, New York, N. Y. Dress-shields	12,182	Apr. 28	31	328
Franklin Mill Company, Lockport, N. Y. Flour or meal made of the entire wheat	12,773	Nov. 17	33	762
Fraser, Farley & Varnum, Yokohama, Japan. Teas	12,064	Mar. 31	30	1210
Fraser, Farley & Varnum, Yokohama, Japan. Teas	12,065	Mar. 31	30	1210

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Freeman, Charles E. (See Freeman and Newlove.)				
Freeman, William W. and C. E., and W. I. Newlove, Columbus, Ohio. Medicine for the cure of toothache.	11,982	Mar. 3	30	778
Friend-Erskine Cigar Company, San Francisco, Cal. Cigars, cigarettes, and smoking and chewing tobacco.	11,868	Jan. 20	30	182
Friend-Erskine Cigar Company, San Francisco, Cal. Cigars, cigarettes, and smoking and chewing tobacco.	12,229	May 12	31	668
Friehmuth Bro. & Co., Philadelphia, Pa. Smoking and chewing tobacco.	12,381	July 7	32	2
Froeschels, Friedrich G., and C. L. H. Grasser, Nuremberg, Bavaria, Germany. Certain-named articles of stationery.	12,141	Apr. 14	31	124
Fuchs, Gustav, Chicago, Ill. Cigars, cigarettes, and manufactured tobacco.	11,851	Jan. 27	30	284
Fuss, Louis, and M. Backer, St. Louis, Mo. Wheat-flour.	11,882	Jan. 27	30	264
Gail & Ax, G. W., Baltimore, Md. Smoking and chewing tobacco.	12,512	Aug. 18	32	778
Gail & Ax, G. W., Baltimore, Md. Chewing-tobacco.	12,692	Oct. 20	33	240
Gail & Ax, G. W., Baltimore, Md. Smoking and chewing tobacco.	12,830	Dec. 8	33	1142
Gail & Ax, G. W., Baltimore, Md. Smoking and chewing tobacco.	12,900	Dec. 29	33	1502
Gally, Merritt, New York, N. Y. Mechanical organ.	11,869	Jan. 20	30	182
Gally, Merritt, New York, N. Y. Small mechanical organ or organette and music therefor.	12,000	Mar. 10	30	896
Gardner & Co. (limited), William A., Philadelphia, Pa. Woven shawls.	11,844	Jan. 6	30	2
Gardner Pine Needle Extract Company, Sharon Springs, N. Y. Medicines containing the extract of pine needles or sprouts.	12,403	July 14	32	140
Gardner Pine Needle Extract Company, Sharon Springs, N. Y. Laundry and toilet soap.	12,404	July 14	32	140
Geles, Adolph, and L. L. Kleine, Chicago, Ill. Copper or brass kerosene-lamps.	12,361	June 30	31	1564
Gem City Tobacco Works, Quincy, Ill. Plug-tobacco.	12,513	Aug. 18	32	778
George & Barker, Astoria, Oreg. Canned salmon.	12,465	Aug. 4	32	522
Gerstle, L., Union Depot, Tenn. Certain named proprietary medicines.	12,230	May 12	31	668
Gillett, Egbert W., Chicago, Ill. Yeast-cakes.	12,315	June 16	31	1308
Gilman, George F., near Bridgeport, Conn. Baking-powder.	12,774	Nov. 17	33	762
Ginter, Lewis, Richmond, Va. Cigarettes and smoking-tobacco.	12,161	Apr. 21	31	268
Ginter, Lewis, Richmond, Va. Cigarettes.	12,603	Sept. 29	32	1470
Glen Cove Manufacturing Company, Glen Cove, N. Y. Corn-flour.	12,485	Aug. 11	32	656
Glen Cove Manufacturing Company, Glen Cove, N. Y. Corn-flour.	12,486	Aug. 11	32	656
Glen Cove Manufacturing Company, Glen Cove, N. Y. Corn-flour.	12,487	Aug. 11	32	656
Glen Cove Manufacturing Company, Glen Cove, N. Y. Corn-flour.	12,488	Aug. 11	32	656
Glenny, Joseph B., New York, N. Y. Compound for removing blotches and freckles from the skin.	12,037	Mar. 24	30	1098
Globe Files Company, Cincinnati, Ohio. Paper-files, desks, and other appliances and receptacles for papers, documents, &c.	12,183	Apr. 28	31	382
Globe Files Company, Cincinnati, Ohio. Paper-files and other receptacles for papers, documents, &c.	12,184	Apr. 28	31	382
Gogorza's Sons, F., New York, N. Y. Leaf-tobacco.	12,673	Oct. 20	33	240
Goodall, Backhouse & Co., Leeds, county of York, England. Custard-powder.	12,797	Nov. 24	33	892
Goodyear Boot and Shoe Company, New York, N. Y. Rubber, leather, and canvas boots and shoes.	12,419	July 21	32	260
Goodyear Rubber Company, New York, N. Y. Rubber boots, shoes, and clothing.	12,038	Mar. 24	30	1098
Gosnell, Charles A., and C. P., London, England. Perfumery and perfumed preparations for the toilet.	12,420	July 21	32	260
Gosnell, Charles P. (See Gosnell, Charles A. and C. P.)				
Gowans & Stover, Buffalo, N. Y. Toilet, bath, and laundry soap.	12,210	May 5	31	522
Grant, D. Lewis, Philadelphia, Pa. Hair and general toilet wash.	11,870	Jan. 20	30	182
Grasser, Carl L. H. (See Froeschels and Grasser.)				
Gravely & Sons, B. F., Leatherwood, Va. Plug chewing-tobacco.	12,489	Aug. 11	32	656
Gravely & Sons, B. F., Leatherwood, Va. Plug chewing-tobacco.	12,490	Aug. 11	32	656
Gravely & Sons, B. F., Leatherwood, Va. Plug chewing-tobacco.	12,491	Aug. 11	32	656
Grommes & Ulrich, Chicago, Ill. Cigars.	11,694	Feb. 3	30	348
Guinn, Richard, Baltimore, Md., and Macon, Ga. Medicine called a blood-renewer.	12,815	Dec. 1	33	1000
Gwaltney, Pembroke D., Smithfield, Va. Peanuts.	12,473	Aug. 4	32	522
Gwaltney, Pembroke D., Smithfield, Va. Peanuts.	12,474	Aug. 4	32	522
Hadley, Frank E., New Bedford, Mass. Remedy for certain named diseases.	12,405	July 14	32	140
Hall, Frederick M., Chicago, Ill. Refrigerator.	12,637	Oct. 13	33	118
Hall, Hugh, New York, N. Y. Ginger-ale and certain named drinks.	12,752	Nov. 10	33	623
Hamilton, Schuyler, Jr., New York and Sing Sing, N. Y. Brick.	12,638	Oct. 13	33	118
Hammond, Caleb L., North Java, N. Y. Medicine to be used externally and internally.	12,076	Apr. 7	31	2
Hammond, Joseph C., Jr., Rockville, Conn. Shoe and garment clasps.	12,421	July 21	32	260
Hand, David B., Scranton, Pa. Medicinal remedies for children.	12,303	June 9	31	1174
Hanes & Co., P. H., Winston, N. C. Chewing-tobacco.	12,211	May 5	31	522
Harden Hand Grenade Fire Extinguisher Company, Chicago, Ill. Hand-grenade fire-extinguisher.	11,883	Jan. 27	30	264
Harrington, Charles R., Norwich, Conn. Medicine for cholera, diarrhea, colic, and like diseases.	12,019	Mar. 17	30	998
Harris & Co., Thomas M., Philadelphia, Pa. Boys', girls', children's, and infants' shoes.	11,845	Jan. 6	30	2
Harris, Isaac, New York, N. Y. Cigars.	12,288	June 2	31	1048
Harris, James H., Citra, Fla. Oranges, lemons, and other citric fruit.	12,674	Oct. 20	33	240
Harris, Levi H., Pittsburg, Pa. Medicine for the cure of cramps.	11,895	Feb. 3	30	348
Harris, Levi H., Pittsburg, Pa. Cordial for summer complaints.	11,896	Feb. 3	30	348
Hartmann, Le Doux & Maeccker, New York, N. Y. Prepared paint.	12,185	Apr. 28	31	382
Hartmann, Le Doux & Maeccker, New York, N. Y. Prepared paint.	12,336	June 23	31	1448
Harvey & Co., William P., Baltimore, Md. Cheese.	12,123	Apr. 14	31	124
Hasson, Albert A., Baltimore, Md. Washes, white or colored, for use on walls, fences, &c.	12,020	Mar. 17	30	998
Havers, Robert N., Bradford, county of York, England. Fancy yarns or chenilles.	12,466	Aug. 4	32	522
Havers, Robert N., Bradford, county of York, England. Fancy yarns or chenilles.	12,467	Aug. 4	32	522
Hawkes, Charles K., San Francisco, Cal. Axes, hatchets, mattocks, adzes, picks, and grub-hoes.	12,707	Oct. 27	33	360
Haxall, William N., Baltimore, Md. Oil-producing seeds and their named products.	12,325	June 16	31	1308
Hayden, H. A., Jackson, Mich. Wheat-flour.	12,021	Mar. 17	30	998
Hazen, Daniel M., Cambridge, Mass. Maple-sirup and maple-sugar.	12,436	July 21	32	260
Healy, John E., and C. Bigelow, Boston, Mass. Salve.	11,911	Feb. 10	30	453
Healy, John E., and C. Bigelow, Boston, Mass. Certain proprietary medicines.	11,967	Feb. 24	30	664
Healy, John E., and C. Bigelow, Boston, Mass. Salve.	11,968	Feb. 24	30	664
Hemingway, Fred B. (See Stephen & Hemingway.)				
Herbst Brothers, New York, N. Y. Cotton fabrics.	12,077	Apr. 7	31	2
Herbst, Solomon C., Milwaukee, Wis. Rye and bourbon whisky.	11,951	Feb. 17	30	562
Hercules Manufacturing Company, Cardington, Ohio. Wheat scourers, separators, and smutters.	12,186	Apr. 28	31	382
Herdie, Peter, Williamsport, Pa. Wheeled vehicles for carrying passengers.	12,022	Mar. 17	30	998
Herold, James H. (See Wheeler and Herold.)				
Hess, Mayer & Co., Louisville, Ky. Men's and boys' underwear.	11,871	Jan. 20	30	182
Hetfield & Ducker, Brooklyn, N. Y. Crackers, biscuits, jumbles, snaps, cakes, wafers, and kindred articles.	11,912	Feb. 10	30	453
Hickson, Richard L., Danville, Va. Gnano.	12,304	June 9	31	1174
Hill, Sallie. (See Jones, Hill, and Jones.)				
Hillman, Herbert & Cooper, Premier Works, Coventry, England. Velocipedes.	12,406	July 14	32	140
Hirschberg, Henry, St. Louis, Mo. Spectacles and eyeglasses.	12,437	July 21	32	260

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Hirsh & Co., I. E., Newark, N. J. Buttons	12,097	Apr. 7	31	2
Hofmann, Alves M., G., and V., Chicago, Ill. Bottled soda-water	12,305	June 9	31	1174
Hofmann, George. (See Hofmann, Alves M., G., and V.)				
Hofmann, Valentine. (See Hofmann, Alves M., G., and V.)				
Hogarth, William, Liverpool, county of Lancaster, England. Ale, beer, porter, and stout	11,890	Jan. 27	30	364
Hobner, Matthias, Trossingen, Württemberg, Germany. Harmonicas	12,492	Aug. 11	32	656
Holmes & Conitts, New York, N. Y. Biscuits, crackers, and wafers	12,289	June 2	31	1048
Holmes & Edwards Silver Company, Bridgeport, Conn. Imitation silver-ware for table use, watch-cases, &c.	12,844	Dec. 15	33	1270
Holmes & Ide, Troy, N. Y. Shirts, collars, and cuffs	11,983	Mar. 3	30	778
Hopkins, L. N. & J. S., Baltimore, Md. Guano	12,708	Oct. 27	33	360
Hopkins, Samuel B., Dallas, Tex. Whisky	12,493	Aug. 11	32	656
Hoptonic Company, Grand Rapids, Mich. Liquid preparation of hops	12,727	Nov. 3	33	504
Horn, Charles W., Slatington, Pa. Liniment, cough-syrup, liver-pellets, and corn-cure	12,901	Dec. 29	33	1502
Houston, Meeks & Co., St. Louis, Mo. Flour	12,468	Aug. 4	32	522
Howard Bros., Fredonia, N. Y. Eye-salve	12,514	Aug. 18	32	778
Howard Bros., Fredonia, N. Y. Medicine for the treatment of thrush or nursing sore mouth	12,775	Nov. 17	33	762
Howard, E. E., Henvelton, N. Y. Corn medicine	12,858	Dec. 15	33	1270
Howard, E. E., Henvelton, N. Y. Corn medicine	12,859	Dec. 15	33	1270
Howard, Charles W., Boston, Mass. Rum	12,672	Dec. 22	33	1394
Howlett, Henry J., Brooklyn, N. Y. Toilet-paper	12,066	Mar. 31	30	1210
Hoxsie, Anna P., Buffalo, N. Y. Croup cure	12,728	Nov. 3	33	504
Hull, Boesger & Co., Cleveland, Ohio. Fine-cut chewing, granulated, and other kinds of smoking-tobacco, cigars, and cigarettes	12,212	May 5	31	522
Huston, Frank L., Providence, R. I. Top rolls for cotton, silk, and like manufacture	12,098	Apr. 7	31	2
Huyler's, New York, N. Y. Chocolates	11,913	Feb. 10	30	454
Hyatt, Edwin F., Newark, N. J. Remedies for coughs, colds, &c.	12,798	Nov. 24	33	692
Hyde & Burton, New York, N. Y. Cotton cloths	11,846	Jan. 6	30	2
Hyde & Burton, New York, N. Y. Silsesias, satens, twills, and other textile cotton fabrics	12,039	Mar. 24	30	1098
Hyde & Burton, New York, N. Y. Black cotton fabrics	12,124	Apr. 14	31	124
Hyde & Burton, New York, N. Y. Certain cotton textile fabrics	12,162	Apr. 21	31	268
Hyde & Son, S. N., Long Green, Md. Canned corn	12,639	Oct. 13	33	118
Iasigi, Joseph A., Boston, Mass. Figs	11,884	Jan. 27	30	264
Ichthyol-Gesellschaft Cordes Hermann & Co., Hamburg, Germany. Ointments, salves, pills, medicated liquids, and soaps	12,816	Dec. 1	33	1000
Iler & Morris, Shreveport, La. Remedy for diseases arising from disordered condition of the stomach, liver, and bowels	12,407	July 14	32	140
Iser, J. Theodore, Louisville, Ky. Cigars	12,709	Oct. 27	33	360
Isham, A. H. (See Truman and Isham.)				
Jackson Company, Nashua, N. H. All kinds of cotton sheetings and shirtings	12,187	Apr. 28	31	382
Jack-on Company, Nashua, N. H. All kinds of cotton sheetings and shirtings	12,188	Apr. 28	31	382
Jacobsen, Charles, Washington, D. C. Beers, porters, ales, and other malt liquors	12,326	June 16	31	1308
Jaeger's Sanitary Woollen System Company, (limited,) London, England. Furniture	12,099	Apr. 7	31	2
Jaeger's Sanitary Woollen System Company, (limited,) London, England. Certain-named woollen wearing-apparel	12,290	June 2	31	1048
Jaeger's Sanitary Woollen System Company, (limited,) London, England. Certain-named woollen bedding	12,291	June 2	31	1048
Jannopoulos, Demetrius, St. Louis, Mo. Water-proof clothing	11,914	Feb. 10	30	454
Jannopoulos, Demetrius, St. Louis, Mo. Water-proof clothing	11,952	Feb. 17	30	502
Jansen, McClurg & Co., Chicago, Ill. Steel pens and lead-pencils	12,231	May 12	31	668
Jay Eye See Liniment Company, San Francisco, Cal. Liniment for external use	12,189	Apr. 28	31	322
Jenkins, Joel, New York, N. Y. Safety-pins	12,675	Oct. 20	33	240
Jenkins, Joel, New York, N. Y. Safety-pins	12,676	Oct. 20	33	240
Jeserich, E., Kansas City, Mo. Medicine in capsules	12,213	May 5	31	222
Jeserich, Emil, Kansas City, Mo. Bitters	12,362	June 30	31	1564
Jimenes, Hanstedt & Co., New York, N. Y. Flour	12,040	Mar. 24	30	1098
Jimenes, Hanstedt & Co., New York, N. Y. Flour	12,041	Mar. 24	30	1098
Jimenes, Hanstedt & Co., New York, N. Y. Butter	12,449	July 28	32	356
Johnson, Horatio, Fair Haven, N. J. Condition-powders	12,817	Dec. 1	33	1000
Johnson, James C. (See Johnson, John T. and J. C.)				
Johnson, John T. and J. C., Bradford Iron Works, Manchester, county of Lancaster, England. Barbed-wire fencing	12,408	July 14	32	140
Johnston, Frank A., Winona and Wabasha, Minn. Straight flour	12,382	July 7	32	2
Johnston, Frank A., Winona and Wabasha, Minn. Patent flour	12,383	July 7	32	2
Jones Bros., New York, N. Y. Baking powder	12,190	Apr. 28	31	382
Jones, Charles T., New York, N. Y. Kid gloves	11,984	Mar. 3	30	778
Jones & Co., New York, N. Y. Flour	12,191	Apr. 28	31	382
Jones, Georgine A., New York, N. Y. Coffee and tea urns and pots	12,384	July 7	32	2
Jones, Newton T. (See Jones, Hill, and Jones.)				
Jones, Rufus G., Dawson, S. Hill and N. T. Jones, Ogleshorpe, Ga. Blood-purifier and cancer-cure	12,860	Dec. 15	33	1270
Kalbfeisch's Sons, Martin, New York, N. Y. Tonics and stimulants	12,776	Nov. 17	33	762
Kansas City Soap Company, Kansas City, Mo. Toilet and laundry soap	12,777	Nov. 17	33	762
Karluk Packing Company, San Francisco, Cal. Canned vertebrate fish, as salmon	12,558	Sept. 8	32	1128
Kearsarge Peg Company, Bartlett, N. H. Pegs for boots and shoes	12,192	Apr. 28	31	382
Keen, Rebecca J., Leesburg, Ohio. Liniment	12,778	Nov. 17	33	762
Keer, Jonathan, Buffalo, N. Y. Tea	12,631	Dec. 8	33	1142
Keith, Edson, A. B. Adam, A. E. Faxon, and O. R. Keith, (special,) Chicago, Ill. Hats for men and boys	12,559	Sept. 8	32	1128
Keith, Osborn R. (See Keith, Adam, Faxon, and Keith.)				
Keller, John H., New Orleans, La. Laundry and toilet soaps	12,532	Aug. 25	32	698
Keller Medicine Company, Fort Wayne, Ind. Dental alloy	11,857	Jan. 13	30	102
Kellogg, Marie L., New York, N. Y. Hair-dye	12,023	Mar. 17	30	998
Kennedy Company, F. A., Cambridge, Mass. Crackers, biscuits, wafers, cakes, and kindred articles	12,150	Apr. 21	31	267
Kennedy Company, F. A., Cambridge, Mass. Crackers, biscuits, wafers, cakes, and kindred articles	12,151	Apr. 21	31	268
Kennedy Company, F. A., Cambridge, Mass. Crackers, biscuits, wafers, cakes, and kindred articles	12,152	Apr. 21	31	268
Kenny, Cornelius D., Baltimore, Md. Mixed teas	12,153	Apr. 21	31	268
Keys, Roger, Philadelphia, Pa. Proprietary remedies, medicines compounded by prescription, and official and pharmaceutical preparations	12,469	Aug. 4	32	522
Kidney, Alfred H., Philadelphia, Pa. Volatile disinfecting and deodorizing solution	12,753	Nov. 10	33	626
	12,232	May 12	31	608

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Kieffer, Nikolas, San Antonio, Tex. Medicinal bitters.....	11,985	Mar. 3	30	778
Kilmer, Jonas M. (See Kilmer, S. Andral and J. M.)				
Kilmer, S. Andral and J. M., Binghamton, N. Y. Herbal remedies.....	12,422	July 21	32	280
King, Julius, Cleveland, Ohio. Spectacles and eyeglasses.....	11,958	Feb. 17	30	583
Kipling, E. E. & A. W., New York, N. Y. Artificial precious stones.....	12,494	Aug. 11	32	656
Kirk & Co., James S., Chicago, Ill. Laundry and toilet soap.....	12,067	Mar. 31	30	1210
Kirk & Co., James S., Chicago, Ill. Laundry-soap.....	12,568	Sept. 15	32	1242
Kirk & Co., James S., Chicago, Ill. Laundry-soap.....	12,569	Sept. 15	32	1242
Kirk & Co., James S., Chicago, Ill. Laundry-soap.....	12,570	Sept. 15	32	1242
Kirk & Co., James S., Chicago, Ill. Laundry-soap.....	12,571	Sept. 15	32	1242
Kirk & Co., James S., Chicago, Ill. Laundry-soap.....	12,572	Sept. 15	32	1242
Kirk & Co., James S., Chicago, Ill. Laundry-soap.....	12,573	Sept. 15	32	1242
Kirk & Co., James S., Chicago, Ill. Washing compound.....	12,579	Sept. 15	32	1242
Kirk & Co., James S., Chicago, Ill. Laundry-soap.....	12,588	Sept. 22	32	1360
Kirk & Co., James S., Chicago, Ill. Laundry-soap.....	12,589	Sept. 22	32	1360
Kirk & Co., James S., Chicago, Ill. Laundry soap.....	12,590	Sept. 22	32	1360
Kirk & Co., James S., Chicago, Ill. Laundry-soap.....	12,604	Sept. 29	32	1470
Kirk & Co., James S., Chicago, Ill. Toilet-soap.....	12,618	Oct. 6	33	2
Kirk & Co., James S., Chicago, Ill. Toilet-soap.....	12,619	Oct. 6	33	2
Kirk & Co., James S., Chicago, Ill. Toilet-soap.....	12,620	Oct. 6	33	2
Kirk & Co., James S., Chicago, Ill. Toilet-soap.....	12,621	Oct. 6	33	2
Kirsch, Franzls, St. Louis, Mo. Liquid preparations for the cure of venereal and urinary diseases.....	12,885	Dec. 29	33	1502
Klauber & Bros., C., New York, N. Y. Razors.....	12,125	Apr. 14	31	124
Klee, Coleman & Co., Louisville, Ky. Ginger-ale.....	12,495	Aug. 11	32	656
Klein, Baer & Co., Chicago, Ill. Frosted tinseal on small spools.....	12,001	Mar. 10	30	896
Kleine, Leonard L. (See Geiss and Kleine.)				
Knights of Labor Co operative Hat Company, Haverhill, Mass. Fur and wool hats.....	12,363	June 30	31	1564
Knorr, Herman, Detroit, Mich. Medicine for certain named diseases.....	12,393	July 7	32	2
Koch, John W., Detroit, Mich. Ale, beer, and other malt liquors.....	11,872	Jan. 20	30	182
Koch Microcide Company, (limited,) Philadelphia, Pa. Deodorizers and disinfectants.....	12,196	Apr. 14	31	124
Krauss, Otto A., New York, N. Y. Bitters.....	12,496	Aug. 11	32	656
Kriete, Eduard W., Dunnsville, Va. Canned fruits, vegetables, and oysters.....	12,678	Oct. 20	33	240
Kuhl, Boehmke & Co., Cleveland, Ohio. Wines and liquors.....	11,915	Feb. 10	30	454
Kuhlmann & Bro., Louis, Brooklyn, N. Y. Washing-liquid.....	12,094	Mar. 17	30	998
Kunkelmann & Co., Rheims, France. Champagne-wines.....	12,729	Nov. 3	33	504
Kunkelmann & Co., Rheims, France. Champagne-wines.....	12,754	Nov. 10	33	506
Kuné, Richard E., New York, N. Y. Medicinal tonic.....	12,100	Apr. 7	31	2
Kuttner & Co., Detroit, Mich. Cigars.....	12,002	Mar. 10	30	896
Laird & Co., George W., New York, N. Y. Preparation of cod-liver oil.....	11,986	Mar. 3	30	778
Lalance & Grosjean Manufacturing Company, New York, N. Y. Enameled sheet-metal utensils and articles for household purposes, &c.....	11,858	Jan. 13	30	102
La Manna, Frank, Brooklyn, N. Y. Toilet-water.....	11,969	Feb. 24	30	664
La Manna, Frank, Brooklyn, N. Y. Toilet powders, pomades, washes, and perfumes.....	11,973	Feb. 24	30	664
Landes, Beall & Co., Arkansas City, Kans. Flour.....	11,970	Feb. 24	30	664
Landes, Beall & Co., Arkansas City, Kans. Flour.....	11,971	Feb. 24	30	664
Landreth, Oliver, Philadelphia, Pa. All kinds of field, garden, and flower seeds, excepting clover and timothy seeds.....	12,327	June 16	31	1308
Landreth, Oliver, Philadelphia, Pa. All kinds of field, garden, grain, grass, tree, shrub, and flower seeds.....	12,327	June 23	31	1448
Lange, Ignatz, Chicago, Ill. Cough-tes.....	12,266	May 26	31	920
Larus & Bro., Richmond, Va. Plug-tobacco.....	12,470	Aug. 4	32	522
Lauderbach, Bert S., Newark, N. J. Certain medicinal compound for diseases of the throat and lungs.....	12,281	June 2	31	1048
Lauts Bros. & Co., Buffalo, N. Y. Laundry and toilet soap.....	12,799	Nov. 24	33	892
Lay, Van Deusen & Co., Westfield, Mass. Driving-whips.....	12,710	Oct. 27	33	360
Lay, Van Deusen & Co., Westfield, Mass. Driving-whips.....	12,711	Oct. 27	33	360
Leclanché Battery Company, New York, N. Y. Electric batteries.....	12,516	Aug. 18	32	778
Lee, Lewis H., Westfield, Mass. Certain whips.....	11,850	Jan. 13	30	102
Leffingwell, Charles W., Chicago, Ill. Newspapers.....	12,193	Apr. 28	31	382
L'Eplattenier, Virgile, New York, N. Y. Balsam or salve.....	12,338	June 23	31	1448
Lents, Nicholas, Waukon, Iowa. Anæsthetic.....	12,658	Oct. 13	33	118
Lester, Samuel C., Munningham Mills, near Bradford, county of York, England. Plushes and velvets.....	12,440	July 28	32	326
Levi & Co., H., San Francisco, Cal. Plug chewing and smoking tobacco.....	12,640	Oct. 13	33	118
Levi & Co., H., San Francisco, Cal. Plug chewing and smoking tobacco.....	12,641	Oct. 13	33	118
Levor, Gustav, Gloversville, N. Y. Kid-leather.....	12,450	July 28	32	386
Levy, Frank, New York, N. Y. Remedy for skin diseases.....	12,591	Sept. 22	32	1360
Levy & Co., Fredk. H., New York, N. Y. Printing-ink.....	12,306	June 9	31	1174
Lewis, Charles H., New York, N. Y. Toilet-powder.....	12,679	Oct. 20	33	240
Liekes, R. P., Steubenville, Ohio. Medicated toilet preparation.....	12,878	Dec. 29	33	1502
Liebig's Extract of Meat Company, (limited,) London, England, Fray Bentos, Uruguay, and Mag-dalena, Argentine Republic. Extract of meat.....	12,349	June 30	31	1564
Liebig's Extract of Meat Company, (limited,) London, England, Fray Bentos, Uruguay, and Mag-dalena, Argentine Republic. Extract of meat.....	12,350	June 30	31	1564
Liebig's Extract of Meat Company, (limited,) London, England, Fray Bentos, Uruguay, and Mag-dalena, Argentine Republic. Extract of meat.....	12,351	June 30	31	1564
Lindsey & Lefevre, Baltimore, Md. Candy.....	12,533	Aug. 25	32	898
Lines, Theodore T., Philadelphia, Pa. Varnishes and japans.....	12,429	July 21	32	260
Liston Beef Company, Chicago, Ill. Fluid extract of beef.....	12,101	Apr. 7	31	2
Liston Beef Company, Chicago, Ill. Liston's extract of beef.....	12,102	Apr. 7	31	2
Little, Henry W., Lewiston, Idaho Ter. Remedy for coughs, colds, &c.....	12,233	May 12	31	668
Lock Seam Elbow Company, Indianapolis, Ind. Certain stove-pipe elbows.....	12,103	Apr. 7	31	2
Loeb & Block, Philadelphia, Pa. Leaf-tobacco.....	11,972	Feb. 24	30	664
Loomis, Laura, New York, N. Y. Cotton goods, gray, colored, and bleached, plain or twilled.....	12,712	Oct. 27	33	360
Loomis, Laura, New York, N. Y. Cotton goods, gray, colored, and bleached, plain or twilled.....	12,713	Oct. 27	33	360
Loomis, Laura, Brooklyn, N. Y. Cotton goods, gray, colored, and bleached, plain or twilled.....	12,755	Nov. 10	33	626
Loonen, Charles, Paris, France. Toilet-brushes.....	12,214	May 5	31	522
Lord & Taylor, New York, N. Y. Stockings and underwear.....	12,104	Apr. 7	31	2
Lord & Taylor, New York, N. Y. Stockings and underwear.....	12,105	Apr. 7	31	2
Lorenz Bros., Toledo, Ohio. Perfumery.....	12,043	Mar. 24	30	1098
Lorenz Bros., Toledo, Ohio. Perfumery.....	12,043	Mar. 24	30	1098
Lorillard & Co., P., Jersey City, N. J. Snuff.....	12,423	July 21	32	260
Loud, Claridge & Co., Baltimore, Md. Cigars and cigarettes.....	11,981	Feb. 24	30	664
Loughrey, John, Cambridge, Mass. Powdered or granulated soap.....	12,560	Sept. 8	32	1192
Love, Thomas C., Philadelphia, Pa. Garments or articles made from jersey-cloths and stockinets.....	12,756	Nov. 10	33	696

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Name, residence, and title.	No.	Date.	Official Gazette.	
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Love, Thomas C., Philadelphia, Pa. Garments or articles made from jersey-cloths and stockinets	12,757	Nov. 10	33	626
Lucas, John, Philadelphia, Pa. Paints	12,946	May 19	31	794
Lucas, John, Philadelphia, Pa. Paints	12,947	May 19	31	794
Lucas & Son, Joseph, Birmingham, England. Lamps and lanterns for bicycles, tricycles, and other velocipedes	12,730	Nov. 3	33	504
Lynch & Co., Patrick, Philadelphia, Pa. Men's and boys' hats	12,622	Oct. 6	33	2
Lyons & Co., Z. I., Durham, N. C. Smoking-tobacco	11,847	Jan. 6	39	2
Lyons & Co., New York, N. Y. Flour	12,552	Sept. 22	32	1360
Macbeth, George A., Pittsburg, Pa. Lamp-chimneys	12,163	Apr. 21	31	908
Macbeth, George A., Pittsburg, Pa. Lamp-chimneys	12,164	Apr. 21	31	908
Macdonough, James H., New York, N. Y. Remedy for catarrh and for bronchial affections	12,623	Oct. 6	33	2
Macintosh & Co., Chas., Manchester, county of Lancaster and London, county of Middlesex, England. Certain named rubber articles of a pliable character	12,328	June 16	31	1308
Macqueen, Charles D. (See Synnott and Macqueen.)				
Maginnis, George T., and W. J. Blackwell, Seattle, Wash. Ter. Aerated waters	12,561	Sept. 8	32	1122
Mansfield-Büllner, Harald V., Copenhagen, Denmark, and Washington, D. C. Elixir or bitters	12,685	Dec. 29	33	1502
March, George N., Boston, Mass. Collars, cuffs, and bosoms	12,632	Dec. 8	33	1142
Marks & Son, David, New York, N. Y. Coats, vests, and pantaloons	12,497	Aug. 11	32	666
Marshaling & Co., J., New York, N. Y. Bronze-powders, bronze-liquids, and bronze-metal leaves	11,917	Feb. 10	30	454
Martin, Stephen E., Burlington, Vt. Medicines for diseases of the blood and nerves	12,312	June 16	31	1308
Marvel, William D., New York, N. Y. Aluminum pens	12,886	Dec. 29	33	1502
Marx, Zero, Chicago, Ill. Emblematic signs	12,818	Dec. 1	33	1000
Massachusetts Cotton Mills, Boston, Mass. Colored drillings	12,385	July 7	32	2
Massachusetts Cotton Mills, Boston, Mass. Woven cotton goods, bleached or unbleached	12,394	July 7	32	2
Massachusetts Cotton Mills, Boston, Mass. Bleached and unbleached woven cotton goods	12,409	July 14	32	140
Massam, Thomas, H. Clark, and S. Phillips, trustees, London, England. Food for curing and fattening cattle	12,787	Nov. 17	33	762
Masquellier, E., Borgerhout, Belgium. Bitters	12,800	Nov. 24	33	892
Mathias, Henry R., Athens, Ohio. Turbine water-wheel	12,316	June 16	31	1308
Mathien, Jean A., Detroit, Mich., and Philadelphia, Pa. Disinfecting or deodorizing compounds or fluids	12,267	May 26	31	920
Mathien, Jean A., Detroit, Mich., and Philadelphia, Pa. Disinfecting or deodorizing compounds or fluids	12,292	June 2	31	1048
Mayer Brothers & Co., New York, N. Y. Roasted coffee	12,624	Oct. 6	33	2
Maynard & Irwin, Boston, Mass. Roasted and ground coffee	12,801	Nov. 24	33	892
McBride, S. W., deceased; S. F. McBride and A. D. Williamson, Chicago, Ill., administrators. Toilet-soap	12,364	June 30	31	1564
McBride, Susan F., et al., administrators. (See McBride, S. W.)				
McClain & Anderson, Greenfield, Ohio. Harness sweat-collars, saddle-trees, &c.	12,642	Oct. 13	33	118
McConnell, John, Cleveland, Ohio. Lamp or oil stoves	12,696	Oct. 20	33	940
McConnell, Luther W., Waukesha, Wis. Certain natural mineral water	12,217	May 5	31	522
McDonald Drug Company, R. H., New York, N. Y., and San Francisco, Cal. Bitters	12,680	Oct. 20	33	940
McGregor, John, Mid-Street Works, Dundee, Scotland. Canvas hose	12,845	Dec. 15	33	1270
McMonagle & Rogers, Middletown, N. Y. Fruit flavors	12,336	July 7	32	2
McMullen & Co., Thomas, New York, N. Y. Pale ale	12,229	June 2	31	1048
McMullen & Co., Thomas, New York, N. Y. Guinness's extra stout	12,583	Sept. 22	32	1360
McNamara & Co., P., Covington, Ky. Plug-tobacco	12,003	Mar. 10	30	896
Meissner, Ackermann & Co., New York, N. Y. Refined petroleum for illuminating purposes	12,451	July 28	32	336
Menasha Wooden Ware Company, Menasha, Wis. Wooden pails and tubs	12,714	Oct. 27	33	360
Meriam & Morgan Paraffine Company, Cleveland, Ohio. Lubricating-oil and axle-grease	12,256	May 19	31	794
Merriam & Rolph, Fitchburg, Mass. Food for horses or cattle	12,471	Aug. 4	32	522
Merino Shoe Company, Kennebunk, Me., and Boston, Mass. Foot-wear made of felt and felted material	12,737	Nov. 3	33	504
Merry, John, New York, N. Y. Best quality galvanized sheet-iron	12,625	Oct. 6	33	2
Merry, John, New York, N. Y. Galvanized sheet-iron of the second quality	12,657	Oct. 13	33	118
Metallic Cap Manufacturing Company, Enfield, Conn., and New York, N. Y. Caps or primers for blasting purposes	12,758	Nov. 10	33	626
Metallic Cap Manufacturing Company, Enfield, Conn., and New York, N. Y. Caps or primers for blasting purposes	12,779	Nov. 17	33	762
Mexican Medicine Company, Austin, Tex. Blood-purifying compounds	12,137	Apr. 14	31	194
Meyer, Adolph C., Baltimore, Md. Liniment	11,918	Feb. 10	30	454
Meyer, Adolph C., Baltimore, Md. Liniment	12,004	Mar. 10	30	896
Meyer, Henry W., Brooklyn, N. Y. Smoking and chewing tobacco, cigars, and cigarettes	12,215	May 5	31	522
Meyer, Henry W., Brooklyn, N. Y. Smoking and chewing tobacco, cigars, and cigarettes	12,216	May 5	31	522
Meyer, Henry W., Brooklyn, N. Y. Smoking and chewing tobacco	12,352	June 30	31	1564
Michaelis & Son, M., New York, N. Y. Flavoring extracts and powders	12,395	July 7	32	2
Miller, Edward, New York, N. Y. Gentlemen's hats	11,885	Jan. 27	30	284
Miller, James W., Newark, N. J. Natural spring-water	12,605	Sept. 29	32	1470
Montgomerie, John C., Dalmore, Stair, county of Ayr, Scotland. Certain articles for grinding, sharpening, and polishing purposes	12,441	July 28	32	336
Montgomerie, John C., Dalmore, Stair, county of Ayr, Scotland. Certain articles for grinding, sharpening, and polishing purposes	12,442	July 28	32	336
Montgomerie, John C., Dalmore, Stair, county of Ayr, Scotland. Certain articles for grinding, sharpening, and polishing purposes	12,443	July 28	32	336
Moody, Harry L., New York, N. Y. Medicine for the prevention and cure of seasickness	12,194	Apr. 28	31	322
Moorman, Charles P., Louisville, Ky. Whisky	12,731	Nov. 3	33	504
Moorman, Charles P., Louisville, Ky. Whisky	12,732	Nov. 3	33	504
Moorman, Charles P., Louisville, Ky. Whisky	12,733	Nov. 3	33	504
Moorman, Charles P., Louisville, Ky. Whisky	12,734	Nov. 3	33	504
Moorman, Charles P., Louisville, Ky. Whisky	12,735	Nov. 3	33	504
Morgan & Headley Optical Manufacturing Company, Philadelphia, Pa. Certain spectacle and eye-glass frames	12,430	July 21	32	260
Morrell & Company, limited, John, Liverpool and Manchester, England, Glasgow, Scotland, Ottumwa, Iowa, and Chicago, Ill. Hog products, lard, and meats	11,860	Jan. 13	30	102
Morningstar, J., New York, N. Y. Candy	12,078	Apr. 7	31	2
Morris, Francis G., New York, N. Y. Leucorrhœa pills	12,606	Sept. 29	32	1470
Morris, Letitia C., New York, N. Y. Hair-tonic	12,517	Aug. 18	32	778
Morton & Sons, A. B., Baltimore, Md. Illuminating coal or kerosene oil	12,802	Nov. 24	33	892
Mourilvan, Heilmann & Co., Yokohama and Hiogo, Japan. Japan silks	11,917	June 16	31	1308
Muench, Julius, Lake Creek Farm, Mo. Wine of a dark-red color	11,987	Mar. 3	30	778
Muhr's Sons, H., Philadelphia, Pa. Filled watch-cases	11,974	Feb. 24	30	684
Muhr's Sons, H., Philadelphia, Pa. Imitation diamond jewelry	12,846	Dec. 15	33	1270
Muhr's Sons, H., Philadelphia, Pa. Filled finger-rings and thumbles	12,847	Dec. 15	33	1270
Muhr's Sons, H., Philadelphia, Pa. Gold, silver, and other solid thumbles	12,861	Dec. 15	33	1270

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Muhr's Sons, H., Philadelphia, Pa. Filled watch-cases	12,982	Dec. 15	33	1270
Mülhens & Kropff, New York, N. Y. Glycerine soap	12,983	Dec. 15	33	1270
Mullen, Walter N., Charlotte, N. C. Liniment	12,736	Nov. 3	33	504
Muth, A. M., Red Bluff, Cal. Bitters	12,902	Dec. 29	33	1502
Myers, John H., Philadelphia, Pa. Solution for the removal of corns, bunions, and warts	11,968	Mar. 3	30	778
Myers, Simon S., Philadelphia, Pa. Egg-food for poultry	11,975	Feb. 24	30	664
Nachfolger, S. Berg, Dresden, Saxony, Germany, and Korotecha and Berditscheff, Russia. White and yellow of egg preserve and egg albumen	12,142	Apr. 14	31	124
Naegele, Eugene, Philadelphia, Pa. Gold, silver, nickel, and other watches, and eight-day and other clocks	12,079	Apr. 7	31	2
Naegele, Eugene, Philadelphia, Pa. Articles of jewelry	12,128	Apr. 14	31	124
Nash & Bro., Millington, N. J. Pulverizing-larrows, clod-crushers, and levelers	12,819	Dec. 1	33	1000
Nashville Cotton Mills, Nashville, Tenn. Cotton goods	12,410	July 14	32	140
Neudecker, Leonard H., Baltimore, Md. Plug and smoking tobacco	12,562	Sept. 8	32	1128
Neuer, Stanley W., New York, N. Y. Certain named remedy	12,444	July 28	32	386
New York Belting and Packing Company, New York, N. Y. Certain belting for machinery	11,697	Feb. 3	30	348
New York Boat Oar Company, New York, N. Y. Oars, sweeps, and sculls	12,129	Apr. 14	31	124
New York Boat Oar Company, New York, N. Y. Oars, sweeps, and sculls	12,171	Apr. 21	31	268
New York Fire Proof Paint Company, New York, N. Y. Paint	12,715	Oct. 27	33	360
Newell, Clarence D., Orange, N. J. Linings and facings for ladies' apparel	12,068	Mar. 31	30	1210
Newlove, William I. (See Freeman and Newlove.)				
Newman & Levinson, San Francisco, Cal. Kid gloves	12,353	June 30	31	1564
Nicola, Joshua S., Walnut Ridge, Ark. Medicine for the cure of neuralgia and like diseases	12,716	Oct. 97	33	360
Nonantum Worsted Company, Newton, Mass. Braids	12,968	May 26	31	920
Nonantum Worsted Company, Newton, Mass. Worsted and woolen yarns	12,989	May 26	31	920
Norfolk Storage Company, Norfolk, Va. Peanuts	12,738	Nov. 3	33	504
Norfolk Storage Company, Norfolk, Va. Peanuts	12,780	Nov. 17	33	762
Norris, William S., Dixon, Miss. Ointment for the cure of piles, and a remedy for lung diseases	12,546	Sept. 1	32	1014
Norton Door Check and Spring Company, New York, N. Y. Door checks and springs	12,903	Dec. 29	33	1502
Oakley, L. & J., Newburg, N. Y. Hard soap in cakes for toilet, bath, and laundry	11,681	Jan. 13	30	102
Oakley, L. & J., Newburg, N. Y. Washing-powders	12,165	Apr. 21	31	268
Oakley, L. & J., Newburg, N. Y. Soap for laundry and toilet use	12,218	May 5	31	522
Oakley, L. & J., Newburg, N. Y. Soaps of all kinds	12,224	May 12	31	664
Oakley, L. & J., Newburg, N. Y. Soap for laundry and toilet use	12,547	Sept. 1	32	1014
Ober, John P., Boston, Mass. Food-preservative	12,534	Aug. 25	32	898
Oberne, Hosick & Co., Chicago, Ill. Laundry-soap	12,354	June 30	31	1564
Oberne, Hosick & Co., Chicago, Ill. Laundry-soap	12,431	July 21	32	860
Oberne, Hosick & Co., Chicago, Ill. Laundry-soap	12,848	Dec. 15	33	1270
O. I. C. Co., Perry, Ga. Tonic and blood-purifier	12,248	May 19	31	794
Oliver & Imboden Company, Wichita, Kans. Wheat-flour	12,365	June 30	31	1564
Oliver & Imboden Company, Wichita, Kans. Wheat-flour	12,366	June 30	31	1564
O'Neill, Henry M., New York, N. Y. Medicines for diseases of the throat and lungs	12,195	Apr. 28	31	382
O'Neill, Charles B., Paterson, N. J. Vermin-exterminator	12,803	Nov. 24	33	892
Ostheimer Brothers, Philadelphia, Pa. Portable arms, as guns, revolvers, swords, &c.	12,270	May 26	31	920
Ostrich, Charles L., Anna, Ill. Medicine for neuralgia and rheumatism	12,080	Apr. 7	31	2
Ott & Co., Christian, Ingelheim, Germany. Bone-black, ivory-black, &c.	12,607	Sept. 29	32	1470
Pace & Sizer, Richmond, Va. Chewing and smoking tobacco, cigars, and cigarettes	12,005	Mar. 10	30	896
Pace & Sizer, Richmond, Va. Smoking and chewing tobacco, cigars, and cigarettes	12,498	Aug. 11	32	656
Paddock, H. J., St. Louis, Mo. Baking-powder	12,759	Nov. 10	33	628
Page, Norton & Co., Teneka, Kans. Wheat-flour	12,235	May 12	31	668
Paige, Henry C., New York, N. Y. Liquid medicine for cure of stomach, liver, and kidney diseases	12,318	June 16	31	1308
Paillard & Co., C., Ste. Croix, Switzerland. Music-boxes	12,760	Nov. 10	33	628
Fairpoint Manufacturing Company, New Bedford, Mass. Silver-plated table-ware and fancy articles	12,580	Sept. 15	42	1242
Fairpoint Manufacturing Company, New Bedford, Mass. Steel table-ware and cutlery and German-silver forks and spoons	12,584	Sept. 22	32	1360
Palmer, Solon, Jersey City, N. J. Soap and perfumes	12,904	Dec. 29	33	1502
Paraffine Paint Company, San Francisco, Cal. Paints and paint compounds for protective and preservative purposes	12,130	Apr. 14	31	124
Parsons, George B., Hooper, Nebr. Horse-medicine consisting of powdered drugs	12,236	May 12	31	668
Patent Papier Fabrik zu Penig, Penig, Germany. Safety-paper for indicating fraudulent changes in writing	12,308	June 9	31	1174
Patberg & Bros., Lewis, New York, N. Y. Covered picture-frames	11,916	Feb. 10	30	454
Payn's Son's Tobacco Company, B., Albany, N. Y. Cut smoking and cut chewing tobacco	12,649	Dec. 15	33	1270
Peabody & Co., Henry W., Boston, Mass. Refined petroleum	12,563	Sept. 8	32	1128
Peabody & Co., Henry W., Boston, Mass. Illuminating, burning, and lubricating oil	12,905	Dec. 29	33	1502
Pearsall, Marvin R., New York, N. Y. Cigars	11,976	Feb. 24	30	664
Peckham, Robert W., Chicago, Ill. Boots, shoes, slippers, and like foot wear	12,307	June 9	31	1174
Peerless Oil Ejector Company, Quincy, Ill. Lubricators, ejectors, and cups	12,106	Apr. 7	31	2
Pemberton, John S., Atlanta, Ga. Nerve-tonic	12,257	May 19	31	794
Pennsylvania Tack Works, Norristown and Philadelphia, Pa. Tacks	12,367	June 30	31	1564
Perfection Card Company, Philadelphia, Pa. Playing-cards	11,873	Jan. 20	30	182
Perkins & Ernst, Covington, Ky. Plug-tobacco	12,044	Mar. 24	30	1098
Perkins & Ernst, Covington, Ky. Plug-tobacco	12,368	June 30	31	1564
Perkins & Ernst, Covington, Ky. Plug-tobacco	12,664	Dec. 15	33	1270
Peterson, Isham H., and H. Stevenius, Newark, N. J. Liniment	12,826	Oct. 6	33	2
Plaetzer Bros. & Co., Philadelphia, Pa. Remedy for rheumatism and similar diseases	12,820	Dec. 1	33	1000
Phillips, Henry & Co., Norfolk, Va. Salt	12,850	Dec. 15	33	1270
Phillips, Seth, trustee. (See Massam, Clark, and Phillips.)				
Phoenix Manufacturing Company, Paterson, N. J., and Allentown, Pa. Silk ribbons and dress goods	12,369	June 30	31	1564
Phenix Plumbago Mining Company, Philadelphia, Pa. Stove polish	12,475	Aug. 4	32	522
Pikesville Dairy Company, Baltimore, Md. Milk, cream, butter, and cheese	12,144	Apr. 14	31	124
Piel & Co., Wm. F., Indianapolis, Ind. Gloss lump-starch	12,387	July 7	32	2
Pillsbury & Co., Charles A., Minneapolis, Minn. Wheat-flour	12,677	Oct. 20	33	240
Pillsbury & Co., Charles A., Minneapolis, Minn. Wheat-flour	12,681	Oct. 20	33	240
Pillsbury & Co., Charles A., Minneapolis, Minn. Wheat-flour	12,697	Oct. 20	33	240
Pingel, Charles, Rochester, N. Y. Balsam for cure of gout, rheumatism, &c.	12,781	Nov. 17	33	762
Pingel, Charles, Rochester, N. Y. Syrup for coughs, colds, &c.	12,782	Nov. 17	33	762
Pingel, Charles, Rochester, N. Y. Bitters	12,634	Dec. 8	33	1142
Pinkus, Frederick S., New York, N. Y. Velvets	12,694	Sept. 8	32	1128
Piper, Robert F., Boston, Mass. Wheat-flour	12,283	June 2	31	1046
Piper, Robert F., Boston, Mass. Wheat-flour	12,621	Dec. 1	33	1000
Plaisted, F. A. (See Forbes and Plaisted.)				
Plume & Atwood Manufacturing Company, Waterbury, Conn. Nails	12,219	May 5	31	522

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Plymouth Silica Company, Plymouth and Chiltonville, Mass. Silica cleaning and polishing preparations	12,025	Mar. 17	30	998
Pogue, William J., Durham, N. C. Smoking, plug chewing, and fine-cut tobacco, cigars, and cigarettes	12,892	Dec. 1	33	1000
Porter, Isabella E., Boston, Mass. Oil preparation for alleviating pain caused by nervous diseases	12,863	Dec. 15	33	1270
Porter, John M., Boston, Mass. Laundry-starch	12,595	Sept. 22	32	1760
Porter, John M., Boston, Mass. Starch	12,887	Dec. 29	33	1502
Portuondo, Juan F., Philadelphia, Pa. Cigars	12,459	Aug. 11	32	656
Portuondo, Juan F., Philadelphia, Pa. Cigars	12,500	Aug. 11	32	656
Portuondo, Juan F., Philadelphia, Pa. Cigars	12,879	Dec. 29	33	1502
Potter Drug and Chemical Company, Boston, Mass. Fluid medicine for internal use	11,874	Jan. 20	30	182
Potter Drug and Chemical Company, Boston, Mass. Medicated soap	11,875	Jan. 20	30	182
Potter Drug and Chemical Company, Boston, Mass. Salve or ointment	11,876	Jan. 20	30	182
Potter Drug and Chemical Co., Boston, Mass. Medicated plasters	12,548	Sept. 1	32	1014
Potter, Parlin & Co., Cincinnati, Ohio. Baking-powder	12,045	Mar. 24	30	1048
Potter, Parlin & Co., Cincinnati, Ohio. Baking-powder	12,046	Mar. 24	30	1098
Potter, Thomas O., Boston, Mass. Suspenders and shoulder-braces	12,549	Sept. 1	32	1014
Powell & Co., Wm., Cincinnati, Ohio. Valves, lubricators, plugs, and similar devices	12,476	Aug. 4	32	523
Pratt, Charles L., Minneapolis, Minn. Cigars, cigarettes, and smoking and chewing tobacco	12,906	Dec. 29	33	1702
Pratt, Charles W., New York, N. Y. Hat-polish	12,783	Nov. 17	33	762
Pratt Manufacturing Company, New York, N. Y. Refined petroleum	11,866	Jan. 27	30	264
Priestley & Co., B., Bradford, England. Ladies' dress-goods	12,581	Sept. 15	32	1242
Prior & Hilgenberg, Baltimore, Md. Base-ball bats, Indian-clubs, and dumb-bells	11,977	Feb. 24	30	604
Procter & Gamble, Cincinnati, Ohio. Soap for toilet and general purposes	11,919	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,920	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,921	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and toilet purposes	11,922	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,923	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,924	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,925	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,926	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,927	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,928	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,929	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,930	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,931	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,932	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Tallow soap in oblong cakes	11,933	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,934	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,935	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,936	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,937	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,938	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap in cakes for laundry and general purposes	11,939	Feb. 10	30	454
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,959	Feb. 17	30	568
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,960	Feb. 17	30	568
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,961	Feb. 17	30	568
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,962	Feb. 17	30	568
Procter & Gamble, Cincinnati, Ohio. Soap for laundry and general purposes	11,963	Feb. 17	30	568
Procter & Gamble, Cincinnati, Ohio. Candles	12,477	Aug. 4	32	523
Procter & Gamble, Cincinnati, Ohio. Laundry-soap	12,478	Aug. 4	32	523
Procter, Joseph O., Jr., Gloucester, Mass. Boneless preparation of salted fish	12,820	May 5	31	522
Probstner, Conrad, Jr., Nuremberg, Germany. Mathematical instruments	12,370	June 30	31	1564
Pugh, Richard H., London, England. Lime-juice sirup or cordial	12,479	Aug. 4	32	523
Pullen, James H., Winn, Me. Certain named medical compounds	12,107	Apr. 7	31	2
Pulliam, Columbus A. M., Okolona, Miss. Medicine for certain named diseases, to be used externally or internally	12,026	Mar. 17	30	998
Purnell, James. (See Wallace, Purnell and Wallace.)				
Quick Meal Stove Company, St. Louis, Mo. Stoves of all kinds, portable ovens, and cooking utensils for the same	12,047	Mar. 24	30	1098
Rae & Co., S., Leghorn, Italy. Olive-oil	12,746	Nov. 3	33	504
Ralston Ginning Company, Nashville, Tenn. Ginned cotton	12,923	Dec. 1	33	1000
Randolph, Thaddeus F. (See Ransom and Randolph.)				
Ransom, John R. B. and T. F., Randolph, Toledo, Ohio. Dental amalgam	12,452	July 28	32	388
Rassfeld & Albers, St. Louis, Mo. Smoking-tobacco	12,069	Mar. 31	30	1210
Raymond, Benj. F., Essex, Mass. Cough-drops	12,804	Nov. 24	33	892
Raymond, Daniel W., Middletown, Conn. Stove-polish and polishing compounds, both liquid and solid	11,940	Feb. 10	30	454
Read Brothers, London, England. Ale and stout	12,866	Dec. 15	33	1270
Reading Hardware Company, Reading, Pa. Stationers' hardware supplies, builders' hardware, furniture hardware, and miscellaneous hardware named	12,643	Oct. 13	33	118
Reading Hardware Company, Reading, Pa. Stationers' hardware supplies, builders' hardware, furniture hardware, and miscellaneous hardware named	12,762	Nov. 10	33	626
Redding & Neubauer, New York, N. Y. Wine and beer	12,271	May 26	31	920
Reed & Carnrick, New York, N. Y. Medicinal food products	12,048	Mar. 24	30	1098
Reeme, Will K., Kansas City, Mo. Oysters	11,877	Jan. 20	30	182
Reichenkron & Mielke, Charlottenburg, Prussia, Germany. White beer and condensed white beer	12,006	Mar. 10	30	896
Reinhard, Dinkelmann & Co., St. Louis, Mo. Razors, scissors, shears, pocket and other knives	12,627	Oct. 6	33	2
Renner, Francis C., New Midway, Md. Ointment or cosmetic	12,739	June 23	31	1448
Rheingauer Schaumweinfabrik Schierstein, Schierstein, Germany. Champagne-wines	12,355	June 30	31	1564
Rheingauer Schaumweinfabrik Schierstein, Schierstein, Germany. Champagne-wines	12,389	July 7	32	2
Richards & Co., A., Fort Scott, Kans. Baking-powder	12,535	Aug. 25	32	898
Richardson, Gilbert M., New York, N. Y. Stove-polish	12,907	Dec. 29	33	1502
Richardson, Jeremiah J., New York, N. Y. Ranges and furnaces	12,371	June 30	31	1564
Richter & Co., F. Ad., Nuremberg and Rudolstadt, Germany, Vienna, Austria-Hungary, and Rotterdam, Netherlands. Certain named medicines	12,388	July 7	32	2
Rieker, Crombie & McLaren, Milwaukee, Wis. Spices	12,070	Mar. 31	30	1210
Rieker, Crombie & McLaren, Milwaukee, Wis. Coffee	12,293	June 2	31	1048
Rieker, Crombie & McLaren, Milwaukee, Wis. Baking-powder	12,294	June 2	31	1048
Ringbauer, Carl, Cleveland, Ohio. Certain named medicinal composition	12,136	Apr. 14	31	124
Robinson, Henry A., Foxcroft, Me. Medicinal specific for cold-sores	12,081	Apr. 7	31	2
Rockwell & Co., J. S., Brooklyn, N. Y. Leather of all descriptions	11,898	Feb. 3	30	348
Roeber, H. & G. A., Cincinnati, Ohio. Toilet and laundry soaps	11,941	Feb. 10	30	454
Rogers, Frank, Omaha, Nebr. Drugs or medicines used for venereal diseases	11,862	Jan. 13	30	162

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Rodgers, Josiah W., Beverly, Mass. Boots and shoes.....	12,596	Sept. 23	32	1360
Robe & Brother, New York, N. Y. Smoked hams and cured meats.....	12,221	May 5	31	522
Roman Bros., Philadelphia, Pa. Kid-gloves.....	12,222	May 5	31	522
Roof, Clarence M., New York, N. Y. Gin.....	12,518	Aug. 18	32	778
Roof, Clarence M., New York, N. Y. Wines.....	12,628	Oct. 6	33	2
Ropes, Emmerton & Co., Salem, Mass. Raw coffee.....	12,166	Apr. 21	31	263
Rose, McAlpin & Co., New York, N. Y. Shoe-kid leather.....	12,562	Sept. 15	32	1242
Rosenberg & Sons, D., New York, N. Y. Wood-stains, varnishes, &c.....	12,867	Dec. 15	33	1270
Rosenberg & Sons, D., New York, N. Y. Varnishes, japans, wood-stains, &c.....	12,868	Dec. 15	33	1270
Rosner, Isaac, Philadelphia, Pa. Felon-cure.....	12,154	Apr. 21	31	263
Ross & Co., A. M., Boston, Mass. Certain named preparations for the laundry.....	12,223	May 5	31	522
Ross, Jacob, Chippewa Falls, Eau Claire, and Warsaw, Wis. Whisky, brandy, wine, and gin.....	12,172	Apr. 21	31	263
Roskam, Gorstley & Co., Philadelphia, Pa. Malt whisky.....	11,890	Feb. 3	30	348
Rothschild Bros. & Co., New York, N. Y. Buttons.....	12,040	Mar. 24	30	1098
Rubber Paint Company of Cleveland, Ohio. Cleveland, Ohio. Paint called hygienic calcimine.....	12,272	May 26	31	920
Rumford Chemical Works, Providence, R. I. Sparkling or effervescing beverage.....	12,050	Mar. 24	30	1098
Rumford Chemical Works, East Providence, R. I. Remedy for disorders of the digestive organs and nervous system and an ingredient for a beverage.....	12,650	Oct. 13	33	118
Ruppert, Jacob, New York, N. Y. Lager-beer.....	12,372	June 30	31	1564
Russell & Morgan Printing Company, Cincinnati, Ohio. Playing-cards.....	12,044	Oct. 13	33	118
Russell & Morgan Printing Company, Cincinnati, Ohio. Playing-cards.....	12,045	Oct. 13	33	118
Russell & Morgan Printing Company, Cincinnati, Ohio. Playing-cards.....	12,046	Oct. 13	33	118
Russell & Morgan Printing Company, Cincinnati, Ohio. Playing-cards.....	12,047	Oct. 13	33	118
Russell & Morgan Printing Company, Cincinnati, Ohio. Playing-cards.....	12,048	Oct. 13	33	118
Russell & Morgan Printing Company, Cincinnati, Ohio. Playing-cards.....	12,049	Oct. 13	33	118
Russell & Morgan Printing Company, Cincinnati, Ohio. Playing-cards.....	12,662	Oct. 20	33	240
Russell & Morgan Printing Company, Cincinnati, Ohio. Playing-cards.....	12,663	Oct. 20	33	240
Russell & Morgan Printing Company, Cincinnati, Ohio. Playing-cards.....	12,824	Dec. 1	33	1000
Russell & Morgan Printing Company, Cincinnati, Ohio. Playing-cards.....	12,825	Dec. 1	33	1000
Russell & Morgan Printing Company, Cincinnati, Ohio. Playing-cards.....	12,826	Dec. 1	33	1000
Ruth & Co., B. F., Reading, Pa. Flux for metals.....	12,608	Sept. 29	32	1470
Ryle, John, Paterson, N. J. Ribbons.....	12,873	Dec. 22	33	1324
Sabold, John, Jr., Colebrookdale, Pa. Sad-irons.....	12,051	Mar. 24	30	1098
Saint Paul Roller Mill Company, St. Paul, Minn. Flour.....	12,108	Apr. 7	31	2
Sallade & Co., New York, N. Y. Lotion for exterminating insects and curing their stings and for relieving pain.....	12,880	Dec. 20	33	1502
Salomon & Bro., L. A., New York, N. Y. Wood-alcohol and its compounds.....	12,784	Nov. 17	33	762
Samper & Co., S., New York, N. Y. Wheat-flour.....	11,942	Feb. 10	30	454
Santer, Albert, Geneva, Switzerland. Certain electro-homeopathic medicaments and homeopathic extracts and tinctures.....	12,400	July 7	32	2
Scanlan, Thomas F., Boston, Mass. Pianos.....	12,502	Aug. 11	32	656
Scanlan, Thomas F., Boston, Mass. Piano-fortes.....	12,620	Oct. 6	33	2
Scanlan, Thomas F., Boston, Mass. Piano-fortes.....	12,630	Oct. 6	33	2
Scanlin & Son, John, Philadelphia, Pa. Cottonnades.....	12,237	May 12	31	668
Schandeln, Harry. (See Weaver and Schandeln.).....				
Scheidig & Co., John, New York, N. Y. Magic lanterns.....	12,851	Dec. 15	33	1270
Scheidig & Co., John, New York, N. Y. Opera-glasses.....	12,852	Dec. 15	33	1270
Schieren & Co., Charles A., New York, N. Y. Oil-dressed and waterproofed flat leather belting.....	12,785	Nov. 17	33	702
Schloss & Sons, New York, N. Y. Braids and cords.....	12,501	Aug. 11	32	656
Schopper, Heinrich, Zenlenroda, Rhenia, Germany. Hosiery.....	12,597	Sept. 22	32	1360
Schreiber & Co., J., Cleveland, Ohio. All kinds of fine-cut chewing, granulated and other kinds of smoking-tobacco, and cigars and cigarettes.....	12,007	Mar. 10	30	896
Schreiber & Co., J., Cleveland, Ohio. All kinds of fine-cut chewing-tobacco.....	12,432	July 21	32	260
Schütte & Co., Wm., Barmen, Prussia, Germany, and New York, N. Y. Italian cloth.....	11,848	Jan. 6	30	2
Schweizer, A., Fürth, Bavaria, Germany. Spectacles and eye-glasses.....	11,978	Feb. 24	30	664
Seofield, Shurmer & Teagle, Cleveland, Ohio. Naphtha of 62° to 64° gravity Baumé.....	11,943	Feb. 10	30	454
Scott Oats Essence Company, New York, N. Y. Nerveine.....	12,833	Dec. 8	33	1142
Scott & Bro., D., Elkton, Md. Manufactured fertilizer.....	12,632	Oct. 6	33	2
Scott Manufacturing Company, Roanoke, Va. Medicine for purifying the blood.....	11,944	Feb. 10	30	454
Seavill Manufacturing Company, New York, N. Y. Albumenized paper for photographic purposes.....	12,684	Oct. 20	33	240
Seabury & Johnson, New York, N. Y. Medicinal plaster.....	12,082	Apr. 7	31	2
Seeborn & Dieckstaht, Dannemora Steel Works, Sheffield, county of York, England. Certain manufactures of iron and steel.....	12,685	Oct. 20	33	240
Seltz & Gold, New York, N. Y. Cotton-seed oil.....	12,068	Mar. 10	30	896
Semmes, Josephine, Washington, D. C. Hair-tonic.....	12,224	June 2	31	1048
Shoen, Robert F., South Orange, N. J. Corded-cotton pile fabrics.....	12,650	Oct. 13	33	118
Shaw, Henry B., San Francisco, Cal. Cosmetic for the face and hands.....	12,411	July 14	32	140
Shepard, John A., Wooster, Ohio. Varnishes of all kinds.....	12,027	Mar. 17	30	998
Shepard, John A., Burlington, Iowa. Compound of red lead and oil adapted to remain in a soft or pasty condition.....	12,109	Apr. 7	31	2
Shire, Adolph, Chicago, Ill. Cigars and cigarettes.....	11,945	Feb. 10	30	454
Shuman & Co., A., Boston, Mass. Boys' clothing.....	12,803	Nov. 24	33	892
Shuptrine, James T., Savannah, Ga. Remedy for ringworm, tetter, and all itching eruptions of the skin.....	12,651	Oct. 13	33	118
Sickles Saddlery Company, J. B., St. Louis, Mo. Horse-collars.....	12,167	Apr. 21	31	268
Sidle Fletcher Holmes Company, Minneapolis, Minn. Flour.....	12,412	July 14	32	140
Sigourney, Frank W., Bristol Conn. Cigars.....	12,295	June 2	31	1048
Silomon, August F., Dresden, Saxony, Germany. Paper for photographic purposes.....	12,319	June 16	31	1308
Silver Lake Company, Boston, Mass. Cords, lines, twines, and ropes.....	12,631	Oct. 6	33	2
Silver Lake Company, Boston, Mass. Cords, lines, twines, and ropes.....	12,633	Oct. 6	33	2
Singer, George, Coventry, county of Warwick, England. Velocipedes and their parts and materials.....	12,598	Sept. 22	32	1360
Singer Manufacturing Company, New York, N. Y. Sewing-machines and sewing-machine attachments and supplies.....	12,306	July 7	32	2
Singer Manufacturing Company, New York, N. Y. Sewing-machines and sewing-machine attachments and supplies.....	12,717	Oct. 27	33	360
Sise, Albert F., Boston, Mass. Refined petroleum-oil.....	12,519	Aug. 18	32	778
Six Dykstra, James J., Chicago, Ill. Physic.....	12,160	Apr. 21	31	268
Six Dykstra, James J., Chicago, Ill. Medicine for the cure of diseases of the stomach and bowels.....	12,600	Oct. 13	33	118
Slocumb, Abby D., and J. W. Dav. Stonington, Conn. Toilet-powder.....	12,320	June 16	31	1308
Smith, William T., Philadelphia, Pa. Carpets, rugs, mats, and curtain fabrics.....	12,009	Mar. 10	30	896
Soltmann, E. G., New York, N. Y. Drawing materials.....	12,340	June 23	31	1448
Soltmann, E. G., New York, N. Y. Certain named drawing materials and instruments.....	12,439	July 21	32	260
Somerville, Thomas. (See Turnbull and Somerville.).....				
Sone & Fleming Manufacturing Company, (limited,) New York, N. Y. Illuminating-oils refined from petroleum.....	12,313	June 16	31	1308

Alphabetical list of registrants of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Sone & Fleming Manufacturing Company, (limited,) New York, N. Y. Illuminating-oils refined from petroleum	12,314	June 16	31	1308
South Norwalk Hat Company, (Co-operative,) South Norwalk, Conn. Hats	12,110	Apr. 7	31	2
Southall Bros. & Barclay, Birmingham, England. Certain sanitary towels	12,356	June 30	31	1564
Southern Chemical Company, New York, N. Y. Oil or spirit varnish	12,897	Dec. 1	33	1000
Southern Chemical Company, New York, N. Y. Distilled products of pine wood	12,898	Dec. 1	33	1000
Southern White Lead Company, St. Louis, Mo. White lead	12,111	Apr. 7	31	2
Southern White Lead Company, St. Louis, Mo. White lead	12,112	Apr. 7	31	2
Spalding & Brothers, A. G., Chicago, Ill. Lawn-tennis bats	11,956	Feb. 17	30	562
Spalding & Brothers, A. G., Chicago, Ill. Bats of all kinds, balls, Indian-clubs, croquet-mallets, and dumb-bells	11,957	Feb. 17	30	562
Speicher, Charles, Scranton, Pa. Liniment or balsam	12,503	Aug. 11	32	656
Spencer Optical Manufacturing Company, New York, N. Y. Spectacles and eyeglasses	12,520	Aug. 18	32	778
Spencer Optical Manufacturing Company, New York, N. Y. Spectacles and eyeglasses	12,521	Aug. 18	32	778
Spencer Optical Manufacturing Company, New York, N. Y. Spectacles and eyeglasses	12,522	Aug. 18	32	778
Spietaler, Andrew, New York, N. Y. Hoof-oil	12,373	June 30	31	1564
Stadiger, C. F., Philadelphia, Pa. Bitters	12,908	Dec. 29	33	1502
Stamford Manufacturing Company, New York, N. Y. Certain named drugs and chemicals for dyeing	12,143	Apr. 14	31	124
Starke, Arabella G., Richmond, Va. Plows	12,113	Apr. 7	31	2
Starke, Arabella G., Richmond, Va. Plows	12,413	July 14	32	140
St. Clair Mineral Springs Company, (limited,) St. Clair, Mich. Natural mineral water	12,599	Sept. 22	32	1360
Steel & Co., Edward T., Philadelphia, Pa. Cloths and cassimeres for garments	11,849	Jan. 6	30	2
Steel & Co., Edward T., Philadelphia, Pa. Woollens for overcoatings	12,258	May 19	31	794
Steel Edge Dust Pan Company, Boston, Mass. Dust-pan	12,609	Sept. 29	32	1470
Steelton Flouring Mill Company, Steelton, Pa. Wheat-flour	12,390	July 7	32	2
Steelton Flouring Mill Company, Steelton, Pa. Wheat-flour	12,433	July 21	32	260
Steinhardt Bros., New York, N. Y. Compounded beverage known as Jamaica rum and maple-sugar	11,900	Feb. 3	30	348
Steketee, George G., Grand Rapids, Mich. Neuralgia-drops	11,946	Feb. 10	30	454
Stephen, Andrew, and F. B. Homingway, Clinton, Iowa. Brooms	12,504	Aug. 11	32	656
Stephens, Henry C., London, England. Inks	12,238	May 12	31	668
Stephenson, Stanley T., Liverpool, England. Antiseptic dressing	12,786	Nov. 17	33	762
Stern Brothers, New York, N. Y. Kid and lambskin gloves	12,010	Mar. 10	30	896
Sternsdorff, Rudolph, Buffalo, N. Y. Bitters	12,397	July 7	32	2
Stevens, Hildred. (See Peterson and Stevens.)				
Stevens, Henry R., Boston, Mass. Compound for cleaning clothing, fabrics, paint-work, &c.	12,741	Nov. 3	33	504
Stillwell & Bierce Manufacturing Company, Dayton, Ohio. Turbine water-wheels	12,661	Oct. 13	33	118
Stine, Isaac, Chambersburg, Pa. Hard soap	12,550	Sept. 1	32	1014
Stine, Jacob, Martinsburg, W. Va. Remedy for rheumatism	12,416	July 14	32	140
Stinson Bros. & Kurlbaum, Philadelphia, Pa. Tapestry carpets	12,505	Aug. 11	32	656
Stoddard, Charles, Buffalo, N. Y. Aerated beverage	11,947	Feb. 10	30	454
Stoffregen, Carl, Baltimore, Md. Cigars	12,480	Aug. 4	32	522
Stokes, Thomas, New York, N. Y. Smoked meats	12,583	Aug. 18	32	778
St. Paul Roller Mill Company, St. Paul, Minn. Flour	11,889	Jan. 27	30	264
Strong, Manrice H., Cincinnati, Ohio. Incubators and brooders	12,249	May 19	31	794
Strumz, Stephen, Pittsburg, Pa. Laundry and toilet soap	12,438	July 21	32	260
Stuart Manufacturing Company, Atlanta, Ga. Remedy for certain named diseases	12,718	Oct. 27	33	360
Sun Chemical Company, Cincinnati, Ohio. Portable case containing selected instruments and standard remedies	12,374	June 30	31	1564
Sure Cure Medicine Company, Rochester, N. Y. Remedy for malarial diseases	12,610	Sept. 29	32	1470
Suydam, Samuel A., New York, N. Y. Ice-boxes and refrigerators	12,321	June 16	31	1308
Swamp Angel's Rheumatic Cure Manufacturing Company, Seattle, Wash. Ter. Medicine for the cure of rheumatism and like diseases	12,329	June 16	31	1308
Swan & Howland, Boston, Mass., and New York, N. Y. Blacking for leather	12,506	Aug. 11	32	656
Swan & Howland, Boston, Mass. Leather-dressing	12,536	Aug. 25	32	898
Synnot, Thomas W., and C. D. Macqueen, Philadelphia, Pa. Preserve-jars	11,979	Feb. 24	30	684
Taylor, Frederick G., Providence, R. I. Powdered soap	12,719	Oct. 27	33	360
Taylor, Jane, Fall River, Mass. Stove-polish in powdered form	12,524	Aug. 18	32	778
Taylor, John, Toronto, Ontario, Canada, and Rochester, N. Y. Laundry-soap	12,806	Nov. 24	33	892
Teats, Herman, Indianapolis, Ind. Preparation for the skin	12,686	Oct. 20	33	240
Thallon, John, Brooklyn, N. Y. Butter	12,028	Mar. 17	30	998
Thompson, Augustin, Lowell, Mass. Preparation for the cure of paralysis and mental diseases	12,565	Sept. 8	32	1128
Thompson, Fry & Co., Philadelphia, Pa. Canned and preserved fruits, vegetables, oysters, &c.	11,850	Jan. 6	30	2
Thompson, Mary E., New York, N. Y. Cosmetics	12,052	Mar. 24	30	1098
Thompson & Sons, Henry G., New Haven, Conn. Spiral hair-pins	12,011	Mar. 10	30	896
Thompson, Thomas J., Chicopee, Mass. Medicine for stomach complaints	12,445	July 28	32	326
Thompson & Taylor Spice Company, Chicago, Ill. Baking powder	12,870	Dec. 15	33	1270
Tittle & Krüger, Leipsic, Germany. Worsted	12,424	July 21	32	260
Toledo Spice Company, Toledo, Ohio. Roasted coffee	12,881	Dec. 29	33	1502
Tomson, Peter C., Philadelphia, Pa. Essence of coffee	12,145	Apr. 14	31	124
Tomson, Peter C., Philadelphia, Pa. Lye	12,146	Apr. 14	31	124
Toner, James C., Baltimore, Md. Cigars	11,851	Jan. 6	30	2
Tootal Broadhurst, Lee & Co., Manchester, county of Lancaster, England. Velveteens	12,611	Sept. 29	32	1470
Topp, John D., Brooklyn, N. Y. Ointment	12,551	Sept. 1	32	1014
Torrey, J. H. & F. H., North Weymouth, Mass. Boots and shoes	12,687	Oct. 20	33	240
Tower, Howard F., New York, N. Y. Salves	11,901	Feb. 3	30	348
Traver, Augustus, New York, N. Y. Kid gloves	12,053	Mar. 24	30	1098
Tress, Cooper, London, England. Hats, caps, and bonnets	12,425	July 21	32	260
Truman, I. J., and A. H. Isham, San Francisco, Cal. Twine used for binder attachments for harvesting-machines	11,953	Feb. 17	30	562
Tucker, Samuel L., New York, N. Y. Liniment	12,173	Apr. 21	31	968
Turnbull, James, and T. Somerville, Valetta, Malta. Cigarettes	12,600	Sept. 22	32	1360
Turner, Frederick, Philadelphia, Pa. Pamphlets and books	11,659	Oct. 13	33	118
Ublich, Friedrich A., St. Louis, Mo. Medicinal confections	12,224	May 5	31	522
Union Metallic Cartridge Company, Bridgeport, Conn. Cartridges	12,720	Oct. 27	33	360
Union Tobacco Works, Geo. S. Schwartz & Co., Louisville, Ky. Plug smoking-tobacco	12,296	June 9	31	1048
Upton, Charles S., New York, N. Y. Lamps	12,874	Dec. 22	33	1394
Urban & Co., Buffalo, N. Y. Flour	12,688	Oct. 20	33	240
Urban & Co., Buffalo, N. Y. Flour	12,689	Oct. 20	33	240
U. S. Importing Co., Pittsburg, Pa. Disinfectant and insecticide	12,481	Aug. 4	32	522
Vail Brothers, Philadelphia, Pa. Tooth-powder and toilet-soap	12,446	July 28	32	326
Valley Paper Company, Holyoke, Mass. Writing-paper	12,273	May 20	31	922
Van Antwerp & Co., Worcester, Mass. Dentifrice	12,250	May 19	31	794
Van Pieterse Bros., Milwaukee, Wis. Cigars	11,852	Jan. 6	30	2
Van Rensselaer, Harriette R. S., Brooklyn, N. Y. Medicine for diseases of the throat and lungs	12,174	Apr. 21	31	968

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Vereinigte Rheinisch-Westphälische Pulver-Fabriken, Cologne, Germany. Gunpowder, explosive compounds, cartridges, &c	12,888	Dec. 29	33	1502
Victor Roller Skate Company, Muncie, Ind. Roller-skates, mop and brush holders, and rubber floor-scrubbers and window-cleaners	12,196	Apr. 28	31	382
Vita Company, New York, N. Y. Nasal suppositories	12,274	May 26	31	920
Vitrite Company, London, England. Vitreous material and certain articles made therefrom	12,357	June 30	31	1564
Vogeler, Son & Co., Baltimore, Md. Medicines containing malt	12,742	Nov. 3	33	504
Vrooman, Gilbert L., Carthage, N. Y. Family liniment	12,131	Apr. 14	31	124
Waite, Mathewson & Co., Providence, R. I. Lockets, bracelets, and lace-pins	12,807	Nov. 24	33	892
Wallace, J. P., J. Purnell, and J. A. Wallace, Mayaville, Ky. Cigars	12,434	July 21	32	260
Wallace, James A. (See Wallace, Purnell, and Wallace.)				
Walsh & Co., F. A. Milwaukee, Wis. Lard-pails and analogous vessels	11,902	Feb. 3	30	348
Walther, Edward, New York, N. Y. Velveteens	12,909	Dec. 29	33	1502
Wardworth, E. Clifford, Brooklyn, N. Y. Tooth-powder	12,398	July 7	32	2
Warner Brothers, New York, N. Y. Corsets and other similar articles	12,132	Apr. 14	31	124
Warner, Hulbert H., Rochester, N. Y. Solid preparation for asthma, catarrh, hay-fever, and certain other diseases	11,903	Feb. 3	30	348
Warner, Hulbert H., Rochester, N. Y. Yeast	12,612	Sept. 29	32	1470
Warner, Hulbert H., Rochester, N. Y. Baking-powder	12,613	Sept. 29	32	1470
Warner, Hulbert H., Rochester, N. Y. Yeast	12,743	Nov. 3	33	504
Warner, Hulbert H., Rochester, N. Y. Tonic preparation for the treatment of certain diseases	12,808	Nov. 24	33	892
Warren, Edward K., Three Oaks, Mich. Whips	12,625	Aug. 18	32	778
Wasner, Joseph, New York, N. Y. Bottled beer	12,012	Mar. 10	30	896
Waterbury & Co., L., New York, N. Y. Binders' twine for reaping-machines	12,462	Aug. 4	32	522
Waterbury & Co., L., New York, N. Y. Binders' twine	12,463	Aug. 4	32	522
Waterbury & Co., L., New York, N. Y. Binders' twine	12,631	Oct. 6	33	2
Weaver, James B., and H. Schandeln, Philadelphia, Pa. Perfumery	11,887	Jan. 27	30	264
Weaver, James B., and H. Schandeln, Philadelphia, Pa. Perfumery	11,888	Jan. 27	30	264
Weil & Co., New York, N. Y. Leaf-tobacco	12,054	Mar. 24	30	1098
Weismann, Augustus W., New York, N. Y. Bitterer Ansatz	12,975	May 26	31	920
Weismann & Muellenbach, New York, N. Y. Fluid extract taraxicum, olive-oil, tincture of laudanum, and insect-powders	12,030	Mar. 17	30	998
Wellman & Dwire Tobacco Company, Quincy, Ill. Smoking, plug, and fine-cut tobacco	12,322	June 16	31	1308
Wellman & Dwire Tobacco Company, Quincy, Ill. Smoking, fine-cut, and plug tobacco	12,375	June 30	31	1564
Wells & Richardson Company, Burlington, Vt. Food for infants and invalids	12,358	June 30	31	1564
Werner, August, New York, N. Y. Unfermented fruit-juices	12,276	May 26	31	920
West, Lucius M., Rockford, Ill. Dressing for carriage-tops	12,601	Sept. 22	32	1360
Western Paper Bag Company, Batavia, Ill. Paper bags	12,031	Mar. 17	30	998
Western Stove Manufacturing Company, St. Louis, Mo. Cooking stoves and ranges	12,853	Dec. 15	33	1270
Westfield Whip Company, Westfield, Mass. Gentlemen's driving-whips	12,763	Nov. 10	33	626
Wetherell, Randall H., Hoboken, N. J. Stove-polish	12,341	June 23	31	1448
Wetmore, Jacob S., Englewood, N. J. Cake-soap	12,155	Apr. 21	31	268
Wetmore, Jennie C. O., Adrian, Mich. Axes	12,372	July 7	32	2
Weyman, B. Frank, Pittsburg, Pa. Smoking-tobacco	12,788	Nov. 17	33	762
Weyman, B. Frank, Pittsburg, Pa. Smoking-tobacco	12,909	Nov. 24	33	892
Wheeler, George R., and J. H. Herold, Council Bluffs, Iowa. Barley beer	11,904	Feb. 3	30	348
Whitaker, William A., Winston, N. C. Plug and twist chewing and smoking tobacco, cigars, and cigarettes	11,980	Feb. 24	30	664
White Dental Manufacturing Company, S. S., Philadelphia, Pa. Preparations of gold for dentists' use	12,225	May 5	31	522
White, James R., Philadelphia, Pa. Bronze, copper, brass, Babbitt metal, and other metals	12,691	Oct. 20	33	240
Whitney & Currier, Toledo, Ohio. Pianos	12,259	May 19	31	794
Whitney, George F., Boston, Mass. Laundry-soap	12,055	Mar. 24	30	1098
Whitton, Brother & Co., Boston, Mass. Sail-cloth or duck	12,744	Nov. 3	33	504
Wichert, Henry, Chicago, Ill. Mustard	12,526	Aug. 18	32	778
Wigg Brothers & Steele, Runcorn, county of Chester, England. Alkalies and bleaching-powder	12,745	Nov. 3	33	504
Wiggin's Sons, H. B., New York, N. Y. Shade fabrics, such as holland and prepared muslins	12,939	May 12	31	668
Wilcox Company, W. J., New York, N. Y. Lard	12,251	May 19	31	794
Wilhelm, David O., Denver, Colo. Remedy for catarrh, hay-fever, colds, &c	12,342	June 23	31	1448
Wilcox, Charles H., New York, N. Y. Knitted articles of wearing-apparel	12,197	Apr. 28	31	362
Williams & Co., J. H., Flushing, N. Y. Metal forgings	11,905	Feb. 3	30	348
Williams, Daniel R., Dallas, Tex. Reflector-lamps	11,954	Feb. 17	30	562
Williams, F. G., Erin, Tenn. Cement	12,013	Mar. 10	30	896
Williams, Henry G., New York, N. Y. Cement for leather	12,875	Dec. 22	33	1384
Williamson, Alexander D., et al., administrators. (See McBride, S. W.)				
Wilson, Annie M., Washington, D. C. Medicated astringents and sedatives	12,835	Dec. 8	33	1142
Wilson, Walter G., Philadelphia, Pa. Crackers	12,920	May 19	31	794
Wimpfheimer & Bro., A., New York, N. Y. Silk-velvet	12,137	Apr. 14	31	124
Wimpfheimer & Bro., A., New York, N. Y. Velvets	12,426	July 21	32	260
Wire Goods Company, Worcester, Mass. Nails and similar products made from wire	12,829	Dec. 1	33	1000
Wood Mowing and Reaping Machine Company, Walter A., Hoosic Falls, N. Y., and Chicago, Ill. Mowing and reaping machines and grain-binders	12,399	July 7	32	2
Wood Mowing and Reaping Machine Company, Walter A., Hoosic Falls, N. Y., and Chicago, Ill. Sections for harvester-cutters	12,414	July 14	32	140
Woodbury Glass Works, Woodbury, N. J. Glass fruit-jars	12,583	Sept. 15	32	1242
Woods & McVill, Kansas City, Mo. Remedy for certain named diseases	12,537	Aug. 18	32	778
Woods, Joseph W., Boston, Mass. Bleached, white, and colored cottons	12,376	June 30	31	1564
Woodward & Co., H. F., Washington, D. C. Certain articles of gentlemen's underwear	12,453	July 23	32	386
Woodworth & Sons, C. B., Rochester, N. Y. Perfumes	12,690	Oct. 20	33	240
Worms & Cohn, Milwaukee, Wis. Boxes for cigars	12,764	Nov. 10	33	636
Worthy Paper Company, Agawam, Mass. Fine writing-paper	12,198	Apr. 28	31	362
Wortmann & Co., S. B., New York, N. Y. Hungarian wines	12,721	Oct. 27	33	360
Wortmann & Co., S. B., New York, N. Y. Hungarian Tokay wines	12,722	Oct. 27	33	360
Wrenn, Whitehurst & Co., Norfolk, Va. Plows and plow-castings	12,014	Mar. 10	30	896
Wright, Alfred A., St. Louis, Mo. Needles, sharps and betweeners	12,537	Aug. 25	32	898
Wright, Cary L., and R. T. Craighill, Lynchburg, Va. Fertilizer	12,454	Aug. 4	32	622
Wunderlich, Philip, Philadelphia, Pa. Confectionery made of sugar, sirup, chocolate, and nuts	12,415	July 14	32	140
Wyman, J. & E. A., Millbridge, Me. Canned shelled fish	11,989	Mar. 3	30	778
Young, Richard, Flatbush, N. Y. Kid and kid-finished leather	12,882	Dec. 29	33	1502
Zacharie, Samuel P., New York, N. Y. Liquid for beautifying and preserving the nails	11,955	Feb. 17	30	562

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

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Able, J. L., Little Rock, Ark. "Dr. Able's Compound Honey of Tar and Lemon".....	4,606	Oct. 13	33	118
Ahlstrom, Charles N., New York, N. Y. "Ahlstrom's Hand Fire-Extinguisher".....	4,369	Mar. 3	30	778
Alexander, James H., Augusta, Ga. "Honey, Rum and Tar." (for a Medicine).....	4,631	Nov. 10	33	626
Allen, Herbert J., Portland, Me. "Mrs. Allen's Instantaneous Croup Remedy".....	4,476	June 16	31	1308
Andrews, Thomas J., Philadelphia, Pa. "Glass Cutter Combination" (for Combination Tool).....	4,463	June 2	31	1048
Andrews, Charles A., Lynn, Mass. "Novelty Pop Corn Works" (for Pop Corn).....	4,380	Mar. 17	30	998
Armstrong, T. J., Wellsburg, W. Va. "T. J. Armstrong's Diphtheria & Quinsy Drops".....	4,499	July 14	32	140
Armstrong, Thomas L., Indianapolis, Ind. "Armstrong's Asthma and Hay Fever Remedy".....	4,616	Nov. 3	33	504
Avery Lactate Company, Boston, Mass. "Lactate Baking Powder".....	4,469	June 9	31	1174
Aydelott, Jacob S., Xenia, Ind. "Aydelott's Base Ball Cards".....	4,363	Mar. 3	30	778
Baker, W. T., Philadelphia, Pa. "L. Wolff & Co., Copabine".....	4,566	Sept. 8	32	1128
Bailey, Henry C. (See Hall and Bailey.)				
Bard, Joseph, Chicago, Ill. "The Complexion Ointment".....	4,397	Feb. 3	30	348
Bard, Joseph, Chicago, Ill. "Safe Prolonger of Life" (for a Medicine).....	4,491	June 30	31	1564
Barnard, William C., Worcester, Mass. "Granulated Soft Soap".....	4,351	Feb. 24	30	664
Barrett, Mary, Elgin, Ill. "Dr. Perdue's Salve".....	4,684	Dec. 29	33	1502
Bass, John H., S., and S. J., Terrell, Tex. "Bass' Chicken Cholera Cure".....	4,309	Jan. 13	30	102
Bass, Sidney. (See Bass, John H., S., and S. J.)				
Bass, Sidney J. (See Bass, John H., S., and S. J.)				
Bateman, Horatio, Brooklyn, N. Y. "The Infallible Oriental Cholera Antidote".....	4,492	June 30	31	1564
Battis, James H., Salem, Mass. "The New Discovery, Battis' Modified Extract of Denicotized Tobacco".....	4,622	Nov. 10	33	626
Baxter, Samuel W., Providence, R. I. "Dr. Samuel's World's Dyspepsia Cure".....	4,647	Dec. 1	33	1000
Bean, Ezra B., and T. S. Haight, New York, N. Y. "Liniment".....	4,320	Jan. 27	30	264
Beck, Charles, Baltimore, Md. "Iron Phosphates" (for a Beverage).....	4,529	Oct. 6	33	2
Beebe Holbrook Company, Holyoke, Mass. "Westport Mills." (for Writing Paper).....	4,393	Mar. 31	30	1210
Beebe, Melvin C., Columbus, Ohio. "Dr. M. C. Beebe's Reliable Catarrh Cure".....	4,648	Dec. 1	33	1000
Beltman, Joseph, Kansas City, Mo. "Great Five" (for five cent Cigars).....	4,401	Apr. 7	31	2
Bendiner, Samuel J., New York, N. Y. "Maltoline." (for a Medical Compound).....	4,414	Apr. 14	31	124
Berry, Francis M., Philadelphia, Pa. "Gaugers' Tacks".....	4,470	June 9	31	1174
Berry, Thomas, Portland, Oreg. "Berry's Nourishing Stout".....	4,667	Dec. 15	33	1270
Bidaman, Israel, New York, N. Y. "Tasteless Vegetable Pilules".....	4,427	Apr. 21	31	268
Bigelow, Charles. (See Healy and Bigelow.)				
Blocki, William F. (See Gale and Blocki.)				
Boston Rubber Company, Boston, Mass. "Geo. H. Hood's Imperial Flesh Color Rubber for Dental Plates".....	4,668	Dec. 15	33	1270
Boston Rubber Company, Boston, Mass. "Geo. H. Hood's Imperial Gum Color Rubber for Dental Plates".....	4,669	Dec. 15	33	1270
Boughton, E. G., Pittsford, N. Y. "Acetone Egg Fungents".....	4,477	June 16	31	1308
Boyd, Daniel F., Cambridge, Mass. "Boyd's Rheumatic Compound".....	4,649	Dec. 1	33	1000
Boyle, John, South Brooklyn, N. Y. "Marble Liniment".....	4,416	Apr. 21	31	268
Brackett, David, Brooks, Me. "Brackett's Rheumatic Liniment".....	4,634	Nov. 17	33	762
Braun, Max, Newark, N. J. "Max Braun's Tape Metronome (Maelz's Time)".....	4,431	Apr. 28	31	362
Bremer's Sons, Lewis, Philadelphia, Pa. "Domestic Spanish" (for Leaf Tobacco).....	4,464	June 2	31	1048
Brewster, Rutherford & Co., Brooklyn, N. Y. "Sabão Paraense" (for Soap).....	4,493	June 30	31	1564
British Baking Powder Company, Clifton Forge, Va. "British Baking Powder".....	4,441	May 5	31	522
Brown, George S., Boston, Mass. "Silk Silver Towel." (for Toweling).....	4,617	Nov. 3	33	504
Brown, George S., Boston, Mass. "Genuine Silk Sponge Towel" (for Toweling).....	4,618	Nov. 3	33	504
Burbank, Lydia O., Worcester, Mass. "Benzoeated Lotion" (for Chapped Hands).....	4,609	Oct. 20	33	240
Burnham, Edwin S., Charleston, S. C. "Cleansing Cream" (for a Clothing Renovator).....	4,635	Nov. 17	33	762
Buskirk, George W., New York, N. Y. "Buskirk's In and Out Notice".....	4,471	June 9	31	1174
Busnitz & Co., S., Richmond, Va. "Old Burley Cigarettes".....	4,607	Oct. 13	33	118
Busnitz & Co., S., Richmond, Va. "Shag Cigarettes".....	4,608	Oct. 13	33	118
Campbell, Charles B., Newark, N. J. "Imperishable paste".....	4,685	Dec. 29	33	1502
Campbell, Milton, Philadelphia, Pa. "Campbell's Tonic Wine of Coca and Celery".....	4,619	Nov. 3	33	504
Canton Paint and Oil Company, Saco, Me. "Canton Black" (for a Water-Proof Oil Dressing).....	4,365	Mar. 3	30	778
Canton Paint and Oil Company, Saco, Me. "Canton Black" (for a Water-Proof Oil Blacking).....	4,366	Mar. 3	30	778
Canton Paint and Oil Company, Saco, Me. "Canton Waterproof Oil Dressing for Boots & Shoes".....	4,367	Mar. 3	30	778
Canton Paint and Oil Company, Saco, Me., and Boston and Canton, Mass. "Vampire Black" (for a Waterproof Leather Dressing).....	4,497	July 7	32	2
Carrall, Francis J., Baltimore, Md. "Liquid Cathartic".....	4,352	Feb. 24	30	664
Caswell, Massey & Co., New York, N. Y. "Massey's Concentrated Essence of Coca and Pepsin".....	4,465	June 9	31	1048
Caswell, Massey & Co., New York, N. Y. "Quinine Chocolates".....	4,473	June 9	31	1174
Caswell, Massey & Co., New York, N. Y. "Emulsion Cod Liver Oil with Pepsin and Quinine".....	4,478	June 16	31	1308
Charland, George H., Keesville, N. Y. "Wylie's Rheumatic Oil".....	4,458	May 26	31	920
Cheatham, Mathew V., and C. B. Haley, Gainesville, Tex. "Cheatham's Chill Tonic".....	4,440	May 5	31	522
Clark, Samuel A., Chicago, Ill. "Clark's Hog Remedy".....	4,304	Jan. 6	30	2
Clarke, John, Peterborough, Ontario, Canada. "Liebig's Condensed Mineral Waters".....	4,563	Aug. 25	32	898
Clifford & Co., Boston, Mass. "Potatoe Juice Toilet Soap".....	4,572	Sept. 15	32	1242
Clum, A. H. W. (See McGee, Clum, and Walsh.)				
Colburn, Birks & Company, Peoria, Ill. "Grant's Calisaya and Iron Tonic".....	4,640	Nov. 24	33	892
Coleman, Sol, Memphis, Tenn. "Sol. Coleman's Original and only Genuine Ko-Ko Tulu".....	4,610	Oct. 20	33	240
Coleman, Sol, Memphis, Tenn. "Sol. Coleman's Original and only Genuine Ko-Ko Tulu".....	4,611	Oct. 20	33	240
Coleman, Sol, Memphis, Tenn. "Sol. Coleman's Ko-Ko Tulu" (for Chewing Gum).....	4,650	Dec. 1	33	1000
Collins Brothers Drug Company, St. Louis, Mo. "Collins' Anti-Periodic or Fever and Ague Cure".....	4,394	Mar. 31	30	1210
Collins Company, Collinsville, Conn. "The Collins Clipper" (for Edge Tools, &c).....	4,507	July 21	32	260
Collins Company, Collinsville, Conn. "The New Spanish—Large." (for Edge Tools, &c).....	4,508	July 21	32	260
Collins Company, Collinsville, Conn. "The New Small Collins Axe".....	4,509	July 21	32	260
Collins Company, Collinsville, Conn. "The B X Swift" (for Edge Tools, &c).....	4,510	July 21	32	260
Collins Company, Collinsville, Conn. "The New Large Collins Axe".....	4,511	July 21	32	260
Collins Company, Collinsville, Conn. "The Large King." (for Edge Tools, &c).....	4,512	July 21	32	260

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Collins Company, Collinsville, Conn. "The Old Collins Axe".....	4,513	July 21	32	960
Collins Company, Collinsville, Conn. "The Old Spanish—Small." (for Edge Tools, &c).....	4,514	July 21	32	960
Collins Company, Collinsville, Conn. "The Collins Plow".....	4,515	July 21	32	960
Collins Company, Collinsville, Conn. "The Small King" (for Cast Steel Tools).....	4,516	July 21	32	960
Collins Company, Collinsville, Conn. "The Collins Wrench".....	4,517	July 21	32	960
Collins Company, Collinsville, Conn. "The B v Wise" (for Edge Tools, &c).....	4,518	July 21	32	960
Collins Company, Collinsville, Conn. "The Challenge Clipper" (for Edge Tools).....	4,519	July 21	32	960
Collins Company, Collinsville, Conn. "The New Spanish—Small." (for Edge Tools, &c).....	4,520	July 21	32	960
Collins Company, Collinsville, Conn. "The Collins Spanish Machete".....	4,521	July 21	32	960
Collins & Co., John H., Philadelphia, Pa. "Dr. Davis's Compound Syrup of Wild Cherry and Tar".....	4,500	July 14	32	140
Collins & Co., John H., Philadelphia, Pa. "Dr. Davis's Liver Pills".....	4,574	Sept. 22	32	1360
Condell, William, St. Louis, Mo. "Big Can," (for Baking Powder).....	4,446	May 12	31	688
Conover, George W., Philadelphia, Pa. "Twixt and Tween Purest Quality Smoking Tobacco".....	4,613	Oct. 27	33	366
Cook & Bernheimer, New York, N. Y. "Blackberry Brandy".....	4,364	Mar. 3	30	778
Cooper & Conard, Philadelphia, Pa. "Gold and Silver Medal American Silks".....	4,338	Feb. 10	30	454
Cooper & Nephews, William, Berkhamsted, England. "Cooper's Sheep Dipping Powder".....	4,563	Sept. 29	32	1470
Cottingham, William H., Noblesville, Ind. "Cottingham's Liniment".....	4,484	June 23	31	1448
Covell, Alexander H., New Bedford, Mass. "Covell's Genuine old Dr. Spencer's Queen of Pain or minute Cure of the period".....	4,321	Jan. 27	30	264
Crossman & Bro., W. H., New York, N. Y. "Silver Steel" (for Axes, Hatchets, and similar Edge-Tools).....	4,353	Feb. 24	30	664
Crozer & Son, Samuel A., Upland, Pa. "These goods are Manufactured with great care from well selected Cotton and all the colors are fast." (for Cotton-goods).....	4,686	Dec. 29	33	1509
Curtis, Charles, Newton, Mass. "The Reece Button-Hole Machine Silk".....	4,310	Jan. 13	30	102
Dabbs Bros., New York, N. Y. "Parisian" (for Cachous).....	4,663	Dec. 8	33	1142
De Freest, Richard M., Lansingburg, N. Y. "De Freest's Soda Flake Crackers Number One".....	4,417	Apr. 21	31	286
Desbrough, George, Utica, N. Y. "Dr. Geo. Desbrough's Anti-Dyspeptic Stomach Powder".....	4,369	Mar. 24	30	1098
Desbrough, George, Utica, N. Y. "Dr. Desbrough's Anti-Bilious Blood and Liver Pills".....	4,390	Mar. 24	30	1098
Detroit Knitting & Corset Works, Detroit, Mich. "The 8 Shilling Coiled Spring Health Preserving Corset".....	4,381	Mar. 17	30	998
Detroit Knitting & Corset Works, Detroit, Mich. "Dr. Schilling's Health Preserving Corset".....	4,382	Mar. 17	30	998
Detroit Knitting & Corset Works, Detroit, Mich. "Dr. Ball's Coiled Spring Elastic Section Corset".....	4,466	June 2	31	1048
Devins, Richard J., Montreal, Quebec, Canada. "Luby's Parisian Hair Renewer".....	4,439	Apr. 28	31	329
Dexter Brothers, Boston, Mass. "Dexter's Mahogany Stain." (for Wood).....	4,646	Nov. 24	33	892
Dietrich, John, Fairbury, Ill. "Dietrich's Liniment".....	4,494	June 30	31	1564
Dimmick, Ammi D., Oneonta, N. Y. "Dimmick's Kidney and Bladder Cure".....	4,531	July 28	32	366
Dougherty, John, New York, N. Y. "South American Pile Cure".....	4,354	Feb. 24	30	664
Douglas, H. Clay, Washington, D. C. "Douglas' Diarrhoea Mixture".....	4,472	June 9	31	1174
Drake, Reason, La Grange, Ind. "The People's Benefactor or the Great Household Remedy".....	4,346	Feb. 17	30	562
Dunklee, Delano D., Kalamazoo, Mich. "White Bronze" (for Burial Caskets, &c).....	4,323	Jan. 27	30	264
Dunn, William C., Brooklyn, N. Y. "Jamaica Tonic-Punch." (for a Beverage).....	4,322	Jan. 27	30	264
Eastman Dry Plate and Film Company, Rochester, N. Y. "Roll-Holder" (for a Holder for Photographic Films).....	4,479	June 16	31	1368
Eastman Dry Plate and Film Company, Rochester, N. Y. "American Film".....	4,480	June 16	31	1368
Eastman Dry Plate and Film Company, Rochester, N. Y. "United Statics Film".....	4,481	June 16	31	1368
Eastman Dry Plate and Film Company, Rochester, N. Y. "Permanent Argentic Bromide Paper".....	4,675	Dec. 22	33	1394
Eastman Dry Plate and Film Company, Rochester, N. Y. "Permanent Gelatino-Argentic Bromide Paper".....	4,676	Dec. 22	33	1394
Eastman Dry Plate and Film Company, Rochester, N. Y. "Permanent Gelatino Bromide Paper".....	4,677	Dec. 22	33	1394
Eastman Dry Plate and Film Company, Rochester, N. Y. "Permanent Bromide Paper".....	4,687	Dec. 29	33	1502
Eckels, Louis W., Louisville, Ky. "The Mexican Syphilitic Treatment".....	4,328	Feb. 3	30	346
Eddystone Manufacturing Company, (limited), Philadelphia, Pa. "India Silk Styles" (for Print Goods).....	4,495	June 30	31	1564
Edwards, George C., Marysville, Ohio. "English Labor-Saving Soap".....	4,311	Jan. 13	30	102
Emley, Charles A., Wrightstown, N. J. "Emley's Sarsaparilla".....	4,532	July 28	32	366
Erb, Jacob, Philadelphia, Pa. "Domestic Parlor Illuminator." (for Burning Fluid).....	4,305	Jan. 6	30	2
Evans & Krimmel, Circleville, Ohio. "Luce's Celebrated Black Liniment".....	4,595	Oct. 13	33	118
Fairbank & Co., N. K., Chicago, Ill. "N. K. Fairbank & Co's Fine Family Soaps".....	4,453	May 19	31	794
Falke, Julius, St. Louis, Mo. "Falke's Sulphuret Cream," (for Chapped Hands, &c).....	4,330	Feb. 3	30	348
Finlay & Co., G. R., New Orleans, La. "Brunswig's Orange Mint Elixir".....	4,678	Dec. 22	33	1394
Fisher, Edwin, Reading, Pa. "The 'Best' Stove Polish".....	4,641	Nov. 24	33	892
Fisher, Harris, Eastman, Ga. "Streeter's Health Pills".....	4,433	Apr. 28	31	322
Foss, Charles S., Deering, Me. "Roderic's Wild Cherry Cough Balsam".....	4,329	Feb. 3	30	348
Foster, Whilldin, Philadelphia, Pa. "Prepared Invisible Patches".....	4,651	Dec. 1	33	1000
Franklin, A. G., Richmond, Va. "Infallible Diarrhoea and Teething Medicine".....	4,596	Oct. 13	33	112
Franz, Henry, New York, N. Y. "The Positive Catarrh Cure".....	4,567	Sept. 8	32	1128
Frantz, Henry, and E. C. Stewart, Ithaca, N. Y. "Our Own" (for Cigars).....	4,324	Jan. 27	30	264
Fraxine Manufacturing Company, Philadelphia, Pa. "Pine Pectoral" (for a Medical Compound).....	4,664	Dec. 8	33	1142
Fraxine Manufacturing Company, Philadelphia, Pa. "Fraxine, the Great Remedy for Dyspepsia".....	4,665	Dec. 8	33	1142
Fry, John W., Allegheny, Pa. "Fry's Great Rheumatic Cure and Blood Purifier".....	4,580	Oct. 6	33	2
Fryer, Derrick F., Oroville, Cal. "Abietene Porous Plaster".....	4,428	Apr. 21	31	268
Fryer, Derrick F., Oroville, Cal. "Abietene Ointment".....	4,454	May 19	31	794
Fryer, Derrick F., Oroville, Cal. "Abietene and Yerba Santa, Cough Candy".....	4,533	July 28	32	366
Fryer, Derrick F., Oroville, Cal. "Fryer's Abietene, an Extract from the Pinus Sabiniana".....	4,652	Dec. 1	33	1000
Gage, Fred F., Boston, Mass. "Dounce-Haleine" (for a preparation for cleansing Artificial Teeth, &c).....	4,459	May 26	31	920
Gale, Edwin O., and W. F. Block, Chicago, Ill. "Natural Mineral Water".....	4,405	Apr. 7	31	2
Gallagher, James, Jr., New Haven, Conn. "Gallagher's Conchas" (for Cigars).....	4,406	Apr. 14	31	124
Gallagher, Peter, Randolph, Mass. "Gallagher's Liquid Polish" (for Stoves).....	4,383	Mar. 17	30	998
Gall, William T., Port Byron, N. Y. "Goodstock" (for Shirts, Coats, and Jackets).....	4,325	Jan. 27	30	264
Gates, Menzo E., Cadott, Wis. "Gates" (a Remedy for Diphtheria).....	4,540	Aug. 11	32	656
Gay, A., Concordia, Kans. "Corn Hnaker's Salve".....	4,541	Aug. 11	32	656
Geiger, Jacob F., New York, N. Y. "Delicious Shampoo." (for a Hair Wash).....	4,597	Oct. 13	33	118
Geis & Co., Zanesville, Ohio. "Old Fashion Bourbon" (for Whisky).....	4,571	Sept. 15	32	1242
Gifford & Douglas, Cedar Rapids, Iowa. "The Iowa Shoe".....	4,568	Sept. 8	32	1128
Gilbert, J. N., and G. McArthur, Columbus, Ga. "McArthur's Magical Mixture" (for a Medical Compound).....	4,434	Apr. 28	31	329
Gillam's Sons, Philadelphia, Pa. "Seidlitz Powders".....	4,623	Nov. 10	33	626
Gooding, Matthew S., Le Roy, N. Y. "Pearl White Tooth Paste".....	4,620	Nov. 3	33	504
Grace & Co., W. R., New York, N. Y. "F. Capurro Extra Refined Petroleum".....	4,624	Nov. 10	33	626
Graff, Andrew, Brooklyn, N. Y. "Graff's Seamless Shoe".....	4,460	May 26	31	920
Graves, Charles F. (See Siddall and Graves).....				
Gray, Tontont & Fox, Detroit, Mich. "Creamery 5lbs. Chocolates".....	4,485	June 23	31	1448

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Name, residence, and title.	No.	Date.	Official Gazette.	
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Gray, William. (See Hibbard and Gray.)				
Greay, Edward, New York, N. Y. "Rice and Rye" (for a Preparation of Extract of Rice with Rye Whisky)	4,501	Oct. 6	33	2
Guesnard, Theodore, Mobile, Ala. "Guesnard's Cuban Flavored Smoking Tobacco"	4,395	Mar. 31	30	1210
Gutmann, Emil, New York, N. Y. "The Preventive Capsule"	4,376	Mar. 10	30	896
Gutmann, Emil, New York, N. Y. "The Preventive Capsule Company's Remedies"	4,404	Apr. 7	31	2
Hadley, Frank R., New Bedford, Mass. "Egyptian Balm"	4,522	July 21	32	260
Hadley, William W., Lynn, Mass. "Mrs. W. W. Hadley's Indian Preparation"	4,347	Feb. 17	30	562
Haight, Thorne S. (See Bean and Haight.)				
Hailey, Charles B. (See Cheatham and Hailey.)				
Hall, Albert B., and H. C. Bailey, Indianapolis, Ind. "Hair Soap"	4,339	Feb. 10	30	454
Hall, Hugh, New York, N. Y. "Hall's Ulster Ginger Ale"	4,636	Nov. 17	33	762
Hand, D. B., Scranton, Pa. "Dr. Hand's General Tonic for Children"	4,542	Aug. 11	32	656
Hand, D. B., Scranton, Pa. "Dr. Hand's Pleasant Physic for Children and Invalids"	4,543	Aug. 11	32	656
Hand, D. B., Scranton, Pa. "Dr. Hand's Chafing Powder for Children and Adults"	4,544	Aug. 11	32	656
Hand, D. B., Scranton, Pa. "Dr. Hand's Diarrhoea Mixture for Children"	4,545	Aug. 11	32	656
Hand, D. B., Scranton, Pa. "Dr. Hand's Teething Lotion for Infants"	4,546	Aug. 11	32	656
Hand, D. B., Scranton, Pa. "Dr. Hand's Colic Cure for Children"	4,547	Aug. 11	32	656
Hand, D. B., Scranton, Pa. "Dr. Hand's Cough and Croup Medicine for Children"	4,548	Aug. 11	32	656
Hand, D. B., Scranton, Pa. "Dr. Hand's Worm Elixir for Children"	4,549	Aug. 11	32	656
Hand, D. B., Scranton, Pa. "General Tonic"	4,625	Nov. 10	33	626
Hand, D. B., Scranton, Pa. "Worm Elixir"	4,626	Nov. 10	33	626
Hand, D. B., Scranton, Pa. "Colic Cure"	4,627	Nov. 10	33	626
Hand, D. B., Scranton, Pa. "Pleasant Physic"	4,628	Nov. 10	33	626
Hand, D. B., Scranton, Pa. "Teething Lotion"	4,629	Nov. 10	33	626
Harrington, Charles R., Norwich, Conn. "Eaton's Celebrated Vegetable Cordial"	4,364	Mar. 17	30	999
Harris & Co., Thomas M., Philadelphia, Pa. "Favorite" (for Boys, Girls, Children's, & Infant's Shoes)	4,355	Feb. 24	30	664
Hart Rheumatic Remedy Company, Buffalo, N. Y. "Dr. Hart's Rheumatic Remedy"	4,407	Apr. 14	31	124
Harvey, John, Detroit, Mich. "Pectoral Mucilage" (for a Medicine)	4,396	Mar. 31	30	1210
Haswell, William S., Denver, Colo. "London Balm" (for a Medicine)	4,598	Oct. 13	33	118
Healy, John E., and C. Bigelow, Boston, Mass. "Kickapoo Indian Salvo"	4,356	Feb. 24	30	664
Hebrard, Albert O., New Orleans, La. "A. O. Hebrard's Worlds Exposition Souvenir" (for Knap-sack, Matchbox, etc.)	4,467	June 2	31	1048
Hegeman & Co., New York, N. Y. "Tonic Phosphates"	4,435	Apr. 26	31	322
Hegeman & Co., New York, N. Y. "Malt and Root, 8 Years Old"	4,445	May 5	31	522
Heilner & Strauss, New York, N. Y. "Scented Corset" (for Packages Containing Corsets)	4,653	Dec. 1	33	1000
Heilner & Strauss, New York, N. Y. "Perfumed Corset" (for Packages Containing Corsets)	4,654	Dec. 1	33	1000
Heilner & Strauss, New York, N. Y. "Fragrant Corset" (for Packages Containing Corsets)	4,655	Dec. 1	33	1000
Heilner & Strauss, New York, N. Y. "Cologne Corset" (for Packages Containing Corsets)	4,656	Dec. 1	33	1000
Heilner & Strauss, New York, N. Y. "Sweet Smelling Corset" (for Packages Containing Corsets)	4,657	Dec. 1	33	1000
Heinz, Henry J., Pittsburg, Pa. "Heinz's" (for Pickles, Preserves and Condiments)	4,668	Dec. 29	33	1502
Heinz, Henry J., Pittsburg, Pa. "From F. & J. Heinz Purveyors to the Trade"	4,669	Dec. 29	33	1502
Henn, Emil, Cincinnati, Ohio. "The Profitable Hog & Chicken Cholera Cure"	4,575	Sept. 22	32	1360
Hibbard, George B., and W. Gray, Detroit, Mich. "English Compound Extract of Pennyroyal and Tansy"	4,496	June 30	31	1564
Higgins, Charles M., Brooklyn, N. Y. "General Drawing Ink"	4,600	Dec. 29	33	1502
Hiscox & Co., W., New York, N. Y. "Hop Sarsaparilla" (for a Medicine)	4,368	Mar. 3	30	778
Holmes, H. E., Walla Walla, Wash. Ter. "Ewing's Ague Mixture"	4,496	June 23	31	1448
Hooper & Co., F. L., Baltimore, Md. "Drew's Yeast Powder"	4,357	Feb. 24	30	664
Howell & Co., Charles H., Philadelphia, Pa. "Marine Bronze" (for Paint)	4,360	Mar. 3	30	778
Howell & Co., Charles H., Philadelphia, Pa. "Howell's Deck" (for Paint)	4,370	Mar. 3	30	778
Howell & Co., Charles H., Philadelphia, Pa. "Marine White" (for Paint)	4,371	Mar. 3	30	778
Howell & Co., Charles H., Philadelphia, Pa. "Marine French" (for Paint)	4,372	Mar. 3	30	778
Howell & Co., Charles H., Philadelphia, Pa. "Marine Cement"	4,373	Mar. 3	30	778
Hughes & Watson, Jacksonville, Fla. "Browns Bronchial Balm"	4,418	Apr. 21	31	208
Hutchinson, A. W., East Liverpool, Ohio. "Dr. Brooks' Diphtheria Cure"	4,348	Feb. 17	30	562
Ilor & Morris, Shreveport, La. "Morris' Cascarine" (for a Medicine)	4,503	July 14	32	140
Ives, Frederick, Ogdensburg, N. Y. "Ives' Catarrh Cream"	4,447	May 12	31	608
Jacobs, Samuel, Baltimore, Md. "Go-Go Vegetable Soap"	4,340	Feb. 10	30	454
Jadwin, Charles P., Scranton, Pa. "C. P. Jadwin's Pine Tar Syrup"	4,550	Aug. 11	32	656
Johnson, Andrew, Atlantic, Iowa. "Andrew Johnson's Pain Lintment"	4,551	Aug. 11	32	656
Johnson, Sutton & Co., Baltimore, Md. "Our Own" (for Shirts)	4,679	Dec. 22	33	1394
Jones & Co., Boston, Mass. "Genuine Concord Wagon Colors"	4,358	Feb. 24	30	664
Jones, George H., Oxford, Me. "German Pile Remedy"	4,456	May 19	31	794
Joslin, Chauncey C., Johnstown, N. Y. "Dr. C. C. Joslin's Liver Pills"	4,691	Dec. 29	33	1502
Kalbfleisch's Sons, Martin, New York, N. Y. "Cereal Acid Phosphates"	4,388	Mar. 17	30	998
Kalbfleisch's Sons, Martin, New York, N. Y. "Phosacid, a Nerve Tonic and Stimulant"	4,670	Dec. 15	33	1270
Kidney, Alfred H., Philadelphia, Pa. "The Bracket Disinfectant Holder and Evaporator"	4,398	Mar. 31	30	1210
Kidney Pill Co., Wheeling, W. Va. "The Original Kidney Pills"	4,599	Oct. 13	33	118
Kirk & Co., James S., Chicago, Ill. "Post Boy" (for a laundry soap)	4,553	Aug. 18	32	778
Kirk & Co., James S., Chicago, Ill. "White Russian Soap"	4,556	Aug. 18	32	778
Kirk & Co., James S., Chicago, Ill. "Argenta" (for soap)	4,557	Aug. 18	32	778
Kirk & Co., James S., Chicago, Ill. "Ebony Harness Soap"	4,558	Aug. 18	32	778
Kirk & Co., James S., Chicago, Ill. "Eutoca" (for toilet soap)	4,559	Aug. 18	32	778
Kirk & Co., James S., Chicago, Ill. "Revenue" (for laundry Soap)	4,560	Aug. 18	32	778
Kirk & Co., James S., Chicago, Ill. "Our Union Soap"	4,561	Aug. 18	32	778
Kirk & Co., James S., Chicago, Ill. "Lehigh Laundry Soap"	4,576	Sept. 22	32	1360
Kirk & Co., James S., Chicago, Ill. "Imperial Olive" (for Laundry Soap)	4,577	Sept. 22	32	1360
Kirk & Co., James S., Chicago, Ill. "Bullion" (for Laundry Soap)	4,578	Sept. 22	32	1360
Kirkwood, Louise J., New York, N. Y. "School Sewing Box"	4,397	Mar. 31	30	1210
Kissinger, John M., Little, Pa. "Improved Little's Brestel"	4,552	Aug. 11	32	656
Knight, Alfred P., Chicago, Ill. "Knight's Steel and Pennyroyal Pills"	4,455	May 19	31	794
Kuhl, Anton, Merrill, Wis. "Kuhl's Drawing & Healing Salvo"	4,349	Feb. 17	30	562
Kunkel & Griffiths, Philadelphia, Pa. "New Mever" (for Boots and Shoes)	4,341	Feb. 10	30	454
Laird, Schober & Mitchell, Philadelphia, Pa. "The English Correct Style Wankenphast"	4,308	Jan. 6	30	2
Landreth, Oliver, Philadelphia, Pa. "Landreth's Extra Early Peas"	4,312	Jan. 13	30	102
Landry, J. Omer, Thibodeaux, La. "Landry's French Syrup" (for a Cough Medicine)	4,573	Sept. 15	32	1342
Lang, Charles C., Baltimore, Md. "Fresh Corn and Tomatoes, C. C. Lang, Baltimore, Md."	4,501	July 14	32	140
Languth, George, Quincy, Ill. "Fire and Waterproof Stone Composition Paint"	4,474	June 9	31	1174
Laplat, Peter F., New Bedford, Mass. "The most Reliable Family Medicine"	4,420	Apr. 21	31	268
Lariviere, Joseph, Lincoln, R. I. "Female Regulator" (for a Medicine)	4,487	June 23	31	1448
Lantz Bros. & Co., Buffalo, N. Y. "Lantz Brothers and Co's Acme Soap"	4,359	Feb. 24	30	664
Lantz Bros. & Co., Buffalo, N. Y. "Lantz Brothers and Co's Acme Soap"	4,360	Feb. 24	30	664

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Lavigny, Georgine S., Jersey City, N. J. "Simon's Black," (for Harness, Carriages, &c)	4,583	Oct. 6	33	2
Lawrence, Charles, Wichita, Kans. "Dr. Gray's Detergent Perspiration Powder"	4,583	July 21	32	200
Lewis, Louis, Philadelphia, Pa. "Dr. Paris' Nervous Restorative Lozenges"	4,584	Sept. 29	32	1470
Lichty, Norman, Des Moines, Iowa. "Cubeb Cough Cure"	4,673	Dec. 15	33	1970
Lilly, Rogers & Co., Baltimore, Md. "Pear Phosphates" (for a beverage)	4,569	Aug. 18	32	778
Liston Beef Company, Chicago, Ill. "Liston's Extract of Beef"	4,408	Apr. 14	31	194
Liston Beef Company, Chicago, Ill. "Graydon's Fluid Extract of Beef"	4,409	Apr. 14	31	194
Liston Beef Company, Chicago, Ill. "Prof. Graydon's Fluid Extract of Beef"	4,410	Apr. 14	31	194
Liston Beef Company, Chicago, Ill. "Prof. Liston's Extract of Beef"	4,411	Apr. 14	31	194
Liston Beef Company, Chicago, Ill. "Liston's Extract of Beef"	4,412	Apr. 14	31	194
Liston Beef Company, Chicago, Ill. "Prof. Graydon's Pure Fluid Extract of Beef"	4,413	Apr. 14	31	194
Liston Beef Company, Chicago, Ill. "Prof. Liston's Fluid Extract of Beef"	4,671	Dec. 15	33	1270
Liston Beef Company, Chicago, Ill. "Liston's Extract of Chicken"	4,672	Dec. 15	33	1270
Lloyd Bros., Cincinnati, Ohio. "Lloyd's Colorless Hydrastis"	4,553	Aug. 11	32	656
Lloyd, Charles E., and S. D. Pillsbury, Albany, N. Y. "Indian Corn Cure"	4,313	Jan. 13	30	103
Lloyd, Charles E., and S. D. Pillsbury, Albany, N. Y. "Cocaine Tooth Ache Drops"	4,399	Mar. 31	30	1210
Lockhart, R. P., Selma, Ala. "Lockhart's Hot Springs Specific"	4,415	Apr. 14	31	194
Lucia, Edgar B., East Brookfield, Mass. "Dr. La Blanco's Diarrhea and Dysentery Drops"	4,436	Apr. 28	31	323
Macklin, T. L., Philadelphia, Pa. "Penetrating Oil" (for a Remedy for Rheumatism)	4,630	Nov. 10	33	636
Maier, Benedict F. (See Maier, James J. and B. F.)				
Maier, James J. and B. F., Augusta, Me. "Madam Gilmore's London Blood Syrup"	4,592	Oct. 6	33	2
Mange & Son, L., St. Louis, Mo. "The L. M. and S. Shirt"	4,538	Aug. 4	32	522
Martin, John A., Philadelphia, Pa. "Kino" (for a Tooth Wash)	4,637	Nov. 17	33	702
Martinez, Albert A., New Orleans, La. "Martinez' Lubricator"	4,600	Oct. 13	33	118
Masquelier, E., Antwerp, Belgium. "A. E. Boonekamp Maag Bitter"	4,642	Nov. 24	33	892
Mathis, Charles B., Toms River, N. J. "Mathis' Family Liniment"	4,314	Jan. 13	30	103
Mattson Rubber Company, New York, N. Y. "Mattson's Improved Irrigator Fountain Syringe"	4,419	Apr. 21	31	266
Mayer & Co., Hess, Louisville, Ky. "The Atkinson Dress Shirt"	4,336	Jan. 6	30	2
Mayer, Jacob, New York, N. Y. "Arlington Skirt Manufacturing Co." (for Skirts)	4,331	Feb. 3	30	348
McArthur, Green. (See Gilbert and McArthur.)				
McCoart, James, Philadelphia, Pa. "Dr. McCoart's World Renowned Specific"	4,361	Feb. 24	30	664
McFarland, Andrew J., St. Clairsville, Ohio. "Esculapian Compound"	4,400	Mar. 31	30	1210
McFarland, Andrew J., St. Clairsville, Ohio. "Catarrh Remedy"	4,498	July 7	32	2
McGee, James F., A. H. W. Clum, and L. C. Walsh, Washington, D. C. "The American Shoe Polish"	4,475	June 9	31	1174
McKean, M., Louisa, Philadelphia, Pa. "Egg Crystal" (a Preparation for Clearing and Enriching Coffee)	4,502	July 14	32	140
Megargee, Irwin N., Philadelphia, Pa. "Westport Mills" (for Writing Paper)	4,403	Apr. 7	31	2
Meyer, Anson H., Hoboken, N. J. "Thueringer Export Beer"	4,659	Dec. 1	33	1000
Mitchell, G. E., Haverhill, Mass. "G. E. M. Powder or the G. E. Mitchell Tooth Powder"	4,631	Nov. 10	33	636
Moellering Medicine Co., Fort Wayne, Ind. "London Liniment"	4,430	Apr. 21	31	266
Moody, Harry L., New York, N. Y. "Rex Marinus" (for a Medicine for Cure of Sea Sickness)	4,461	May 26	31	930
Morehead, Gustavus K., Philadelphia, Pa. "Ammoniated" (for Soap)	4,307	Jan. 6	30	2
Morrill & Co., C. E., New York, N. Y. "The Prize Pencil Tablet"	4,442	May 5	31	322
Morrill & Co., C. E., New York, N. Y. "The Prize Linen Tablet"	4,443	May 5	31	322
Mozley, H., Atlanta, Ga. "Dr. H. Mozley's Lemon Tonic Cordial"	4,643	Nov. 24	33	892
Mueller, David. (See Schloss and Mueller.)				
Nasmith & Co., J. H., Stratford, Ontario, Canada. "Dr. Jug's Medicine"	4,421	Apr. 21	31	266
National Suspender Company, New York, N. Y. "The Silk Corded End Brace" (for Suspenders)	4,498	June 2	31	1048
Ober, John P., Boston, Mass. "Liquid Purifier & Preserver"	4,564	Aug. 25	32	898
Orange Elixir Company, Mobile, Ala. "Orange Elixir" (for a Laxative)	4,342	Feb. 10	30	474
Payn's Son's Tobacco Company, B., Albany, N. Y. "B. Payn's Son's Tobacco Co's Little Havana"	4,554	Aug. 11	32	656
Pearson, Henry E., Newbury, Mass. "The Boston Brown Bread Mixture"	4,332	Feb. 3	30	348
Peet, Wilbur J., Bridgeport, Conn. "Peet's Litobocella"	4,448	May 12	31	668
Perfection Card Company, Philadelphia, Pa. "Perfection" (for Playing Cards)	4,317	Jan. 20	30	168
Petzold & Co., Louis, Baltimore, Md. "There's Life in Every Drop" (for Dr. Petzold's Genuine German Bitters)	4,534	July 28	32	366
Pfaelzer Bros. & Co., Philadelphia, Pa. "Strassburger Gicht & Rheumatismus Pflaster"	4,614	Oct. 27	33	380
Phillips, F. T., Olney, Ill. "Myrrh Tooth Soap"	4,492	Apr. 21	31	266
Phinney, H. F., Boston, Mass. "Phinney's Camphor Ice"	4,336	Jan. 27	30	264
Phoenix Metallic Cartridge Company, South Coventry, Conn. "Double Waterproof." (for Metallic Cartridges)	4,423	Apr. 21	31	266
Pichereau, Arcene, Lacon, Ill. "Pichereau's Universal Salve"	4,632	Nov. 10	33	626
Pillsbury, S. Dexter. (See Lloyd and Pillsbury.)				
Porter, Alfred, Manchester, N. H. "Porter's Silver Polish"	4,430	Apr. 21	31	266
Portuondo, Juan F., Philadelphia, Pa. "Factory 540, First District, Penna." (for Cigars)	4,535	Aug. 4	32	522
Post, Joy, Essex, Conn. "Magnetic Tablets" (for a Medicine)	4,638	Nov. 17	33	702
Potter & Co., I. A., Watertown, N. Y. "Directions for using I. A. Potter & Co's New American Strengthening Plaster"	4,579	Sept. 29	32	1380
Pugh, Richard H., London, England. "Stower's Lime Juice Cordial"	4,536	Aug. 4	32	522
Raynolds & Co., C. T., New York, N. Y. "C. T. Raynolds and Co's Specially Prepared Paints"	4,333	Feb. 3	30	348
Raynor & Co., Samuel, New York, N. Y. "Twenty five Cents" (for Change Envelopes)	4,585	Sept. 29	32	1470
Raynor & Co., Samuel, New York, N. Y. "Fifty cents" (for Change Envelopes)	4,586	Sept. 29	32	1470
Raynor & Co., Samuel, New York, N. Y. "One Dollar" (for Change Envelopes)	4,587	Sept. 29	32	1470
Reinhold & Marsh, Worcester, Mass. "R. & M. Tonic Confection"	4,402	Apr. 7	31	2
Reis, Morris M., Philadelphia, Pa. "Juniper Leaf Gin"	4,600	Dec. 1	33	1000
Rhode Island Lining Manufacturing Company, New York, N. Y. "Standard Quality" (for Cotton Goods)	4,385	Mar. 17	30	998
Rhode Island Lining Manufacturing Company, New York, N. Y. "Corset Finish" (for Silicates and Umbrella Cloths)	4,386	Mar. 17	30	998
Rice, William A., Boston, Mass. "Rice's No Rubbing Washing Fluid"	4,387	Mar. 12	30	998
Richards, C. A., Boston, Mass. "Dunster's London Cordial Geneva"	4,424	Apr. 21	31	266
Ridgewood Re-Distilling Company, New York, N. Y. "Ridgewood Re-Distilling Cos. D. D. Rye Gin"	4,692	Dec. 29	33	1502
Robert, F., Arnold, New York, N. Y. "F. Arnold Robert's Prune Juice"	4,377	Mar. 10	30	896
Robert, F., Arnold, New York, N. Y. "F. Arnold Robert's French vinous essence"	4,378	Mar. 10	30	896
Robinson, A. M., Jr., Bangor, Me. "Balsam of Wintergreen"	4,379	Mar. 10	30	896
Rogers, Philip, Baltimore, Md. "Forrest's Juniper Tar Drops" (for a Medicine for Coughs, Colds, &c)	4,601	Oct. 13	33	118
Rowland, John H., Oswego, N. Y. "John H. Rowland's Vegetable Astringent Pills"	4,537	Aug. 4	32	522
Royer, H. C., Massillon, Ohio. "Honey Dew Cough Syrup"	4,468	June 23	31	1448
Royer, H. C., Massillon, Ohio. "Chionanthus Compound"	4,469	June 23	31	1448
Royer, H. C., Massillon, Ohio. "Royer's German Specific"	4,490	June 23	31	1448
Rumford Chemical Works, Providence, R. I. "Sparkling Phospha" (for a Beverage)	4,391	Mar. 24	30	1098

Alphabetical list of registrants of labels—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
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Ryder, Gilman M., Boston, Mass. "The Mexican Rheumatic Cure"	4,504	July 14	32	140
Ryer & Berrian, New York, N. Y. "Peptonized Soda Mint" (for Dyspepsia, &c.)	4,462	May 26	31	920
Sachs, Pruden & Co., Dayton, Ohio. "Elixir Agaric, Sachs, Pruden & Co., Sole Proprietors"	4,449	May 12	31	668
Sawyer, Andrew, Troy, N. Y. "Sawyer's Sick Headache Powders"	4,334	Feb. 3	30	348
Sawyers, David A., Macksburg, Iowa. "D. A. Sawyers' Pain Specific"	4,524	July 21	32	260
Sawyers, David A., Macksburg, Iowa. "D. A. Sawyers' Remedy for Kidney, Bladder, and Urinary Organs"	4,525	July 21	32	260
Sawyers, David A., Macksburg, Iowa. "D. A. Sawyers' Tonic Bitters"	4,526	July 21	32	260
Sawyers, David A., Macksburg, Iowa. "D. A. Sawyers' Specific for Croup"	4,527	July 21	32	260
Sawyers, David A., Macksburg, Iowa. "D. A. Sawyers' Compound Cathartic and Vegetable Blood Purifier"	4,528	July 21	32	260
Sawyers, David A., Macksburg, Iowa. "D. A. Sawyers' Cough Syrup"	4,530	July 21	32	260
Schloss, A. S. and D. Mueller, New York, N. Y. "Dr. Tyler's Tooth Tablets"	4,644	Nov. 24	33	892
Schloss Bros. & Co., Baltimore, Md. "London and Paris" (for Ready-Made Clothing)	4,343	Feb. 10	30	454
Schmidt, Albert G., Chicago, Ill. "Peruvian Bark Tonic Bitters"	4,335	Feb. 3	30	348
Schmitt, John H., Philadelphia, Pa. "The Hamburg Compressed Corn Beef Company," (for Compressed Corn Beef)	4,344	Feb. 10	30	454
Schrophire, W. A., Rockdale, Tex. "Dr. Bell's Never Failing, Wonderful Mixture for Chills and Fevers"	4,680	Dec. 22	33	1394
Schweitzer, Julius, New York, N. Y. "Peptonic Emulsion"	4,437	Apr. 28	31	392
Schweitzer, Julius, New York, N. Y. "Peptonized Emulsion"	4,438	Apr. 28	31	392
Scott & Firth, Coldwater, Mich. "Scott & Firth's Tonic and Kidney Cure"	4,602	Oct. 13	33	118
Seve, Leopold, Harrisburg, Pa. "Madam R. Seve's Ointment"	4,462	June 16	31	1308
Shaw, James C., Savannah, Ga. "S. A. C. Shaw's Asthma Cure"	4,661	Dec. 1	33	1000
Sherlock, Edward J., Brooklyn, N. Y. "Blood, Rye & Beef" (for a Medicine for Consumption, &c.)	4,594	Oct. 6	33	2
Sherwin-Williams Company, Cleveland, Ohio. "Croosote Paint"	4,451	May 12	31	668
Shuman & Co., A., Boston, Mass. "Caution" (for All-Wool Clothing)	4,450	May 12	31	668
Siddall, Eugene E., and C. F. Graves, Findlay, Ohio. "French Depilatory," (for a Medicinal Compound)	4,425	Apr. 21	31	268
Smith & Son, E. G., Kentland, Ind. "Smith's Vegetable Tonic"	4,580	Sept. 22	32	1360
Smith & Son, E. G., Kentland, Ind. "Smith's German Pilo Cure"	4,444	May 5	31	522
Speicher, Charles, Scranton, Pa. "Baleetto" (for a medical Compound)	4,674	Dec. 15	33	1270
Spencer, E. W., Albuquerque, N. Mex. Ter. "Spencer's Cooling Remedy," (for Burning or Sweating Feet)	4,315	Jan. 13	30	102
Splitz Bros. & Mork, Boston, Mass. "Duplex Knee" (for Clothing)	4,426	Apr. 21	31	268
Stamets, F. T., Bloomsbury, N. J. "The F. T. S. Great Indian Cough Killer"	4,662	Dec. 1	33	1000
Steenrod, Sarah, Columbus, Ohio. "Golden's Female Elixir"	4,639	Nov. 17	33	762
Steffen, August, Milwaukee, Wis. "Milwaukee" (for Cigars)	4,477	May 19	31	794
Steinmetz, Uriah G., Philadelphia, Pa. "The Reliable" (for Umbrellas and Parasols)	4,581	Sept. 22	32	1360
Stewart, Edwin C. (See Frautz and Stewart.)				
Strauss, Fritz & Co., Cincinnati, Ohio. "Mercer Co Kentucky Pure Small Grain Bourbon"	4,345	Feb. 10	30	454
Sure Cure Medicine Company, Rochester, N. Y. "Dr. J. B. Henion's Sure Cure for Malaria"	4,588	Sept. 29	32	1470
Talbot, Edward A., Boston, Mass. "Hakka Cream"	4,565	Sept. 1	32	1014
Tarrant & Company, New York, N. Y. "Tutti Frutti Juice"	4,505	July 14	32	140
Taylor, W. Scott, Trenton, N. J. "Taylor's Horehound Balsam"	4,615	Oct. 27	33	360
Thomas, Lewis C., New York, N. Y. "L. C. Thomas, Pine Tar and Wild Cherry Cough Drops"	4,374	Mar. 3	30	778
Thomson, Langdon & Co., New York, N. Y. "Custom Made," (for Corsets)	4,693	Dec. 29	33	1502
Thomson, Langdon & Co., New York, N. Y. "Fleece Lined" (for Corsets)	4,694	Dec. 29	33	1502
Trade Chemical Company, New York, N. Y. "Bellevue Disinfectant"	4,350	Feb. 17	30	562
Tucker, Samuel L., New York, N. Y. "S. L. Tucker's Rheumatic X Liniment"	4,392	Mar. 24	30	1098
Twitchell & Bro., S., Philadelphia, Pa. "Philadelphia Lemonade"	4,603	Oct. 13	33	118
Twitchell & Bro., S., Philadelphia, Pa. "Philadelphia Lemonade Extract"	4,604	Oct. 13	33	118
Tyroo, Josiah S., Washington, D. C. "Tyroo's Powdered Hypophosphites Compound"	4,666	Dec. 8	33	1142
United States Medicine Company, New York, N. Y. "Dr. Dunlop's Cascara Compound"	4,681	Dec. 22	33	1394
Usher, W. H., New York, N. Y. "Sparkling Banana Liqueur"	4,582	Sept. 22	32	1360
Valentine & Co., E. M., South Abington, Mass. "Dr. Chandler's Hemlock Plaster"	4,375	Mar. 3	30	778
Vanauken, C. H., Newark, N. J. "Farmer's" (for Horse and Cattle Powder)	4,529	July 21	32	260
Wadsworth, E. Clifford, Brooklyn, N. Y. "Dr. Wadsworth's Tooth Powder"	4,506	July 14	32	140
Waleh, L. C. (See McGee, Clum, and Walsh.)				
Walton, George E., Cincinnati, Ohio. "The Famous Caraccas Herb-Tonic"	4,682	Dec. 22	33	1394
Warner, C. D., Redding, Mich. "Warner's White Wine of Tar Syrup"	4,316	Jan. 13	30	102
Watson, Robert, Kansas City, Mo. "Dr. Robt. Watson's Celebrated Eye Water"	4,612	Oct. 20	33	240
Webster, Henry W., Nashua, N. H. "Catholicon" (for Medicine)	4,569	Sept. 8	32	1128
Webster, Mary, Massillon, Ohio. "Nymphaea Vegetable Compound," (for a Medicine)	4,539	Aug. 4	32	522
Whitehead, William H., Way Cross, Ga. "The Greatest Blood Purifier"	4,633	Nov. 10	33	626
Wilcox & Co., Frederick T., Le Roy, N. Y. "Atlee's London Syrup"	4,683	Dec. 22	33	1394
Williamantic Linen Company, Hartford, Conn. "Windham Thread"	4,336	Feb. 3	30	348
Williamantic Linen Company, Hartford, Conn. "Iverson Mills" (for Spools of Sewing Thread)	4,337	Feb. 3	30	348
Willson, B. F. B., Boston, Mass. "Improved German Fly Paper"	4,570	Sept. 8	32	1128
Wilson, Michael W., White Plains, N. Y. "Save your Horse and Save your Money," (for Horse Medicine)	4,430	Apr. 28	31	392
Wolf & Monahan, Milwaukee, Wis. "Medical Lake" (for Mineral Water)	4,318	Jan. 20	30	182
Wolf & Monahan, Milwaukee, Wis. "Medical Lake Ginger Ale"	4,319	Jan. 20	30	182
Woodward, A. B., Tunkhannock, Pa. "Universal Healer" (for a Medicine)	4,463	June 16	31	1308
Woodward, Alden A., Lynn, Mass. "The Great German Rheumatism Remedy"	4,605	Oct. 13	33	118
Wyman, John C., Brooklyn, N. Y. "Dr. Wyman's Unexcelled Tooth Powder for Cleansing, Beautifying, and Preserving the Teeth, and Imparting a Delightful Fragrance to the Breath"	4,645	Nov. 24	33	892
Zieber, William B., Philadelphia, Pa. "George Vanderalice's Famous Universal Salve"	4,452	May 12	31	668

DISCLAIMERS.

Name, residence, and invention.	No.	Filed.	Official Gazette.	
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Archer, Samuel B., Pittsburg, Pa., assignor to Archer Automatic Car Coupling Company, Saratoga Springs, N. Y.; disclaimer filed by assignee. Car-coupling	283,845	Nov. 11, 1885	33	762
Davis, Thomas B., New York, N. Y. Scoop. (Reissue)	10,226	Jan. 2, 1885	30	102
Denton, Joseph B., Newtown, N. Y.; disclaimer filed by patentee. Fertilizer distributor	314,930	Apr. 16, 1885	31	268
Dunning, William B., Geneva, N. Y.; disclaimer filed by patentee. Steam-heater. (Reissue) ..	10,391	Mar. 25, 1885	30	1210
Ehrichson, Asmus J., Akron, Ohio, assignor to Ferdinand Schumacher; disclaimer filed by patentee and assignee. Oatmeal-machine. (Reissue)	7,542	Oct. 12, 1885	33	240
Jackson, Allen S., Kokomo, Ind.; disclaimer filed by patentee. Combined chimney and ventilator	303,288	Dec. 17, 1885	33	1394
Kreischer, Balthasar, New York, N. Y., assignor to William J. Fryer, Jr.; disclaimer filed by assignee. Hollow tile-flooring. (Reissue)	5,174	Mar. 12, 1885	30	998
Locke, Joseph, Somerville, assignor to William L. Libbey, Newton, and Edward D. Libbey, Boston, Mass.; disclaimer filed by Edward D. Libbey, present assignee. Glassware	282,002	Aug. 29, 1885	32	1128
Lockwood, Rhodes, Boston, Mass.; disclaimer filed by patentee. India-rubber eraser	167,455	Mar. 27, 1885	31	2
Perkins, Willis J., Grand Rapids, Mich.; disclaimer filed by patentee. Shaft hanger	311,760	Oct. 13, 1885	33	460
Stearns, Joseph B., Boston, Mass., assignor to Western Union Telegraph Company, New York, N. Y.; disclaimer filed by assignee. Duplex-telegraph apparatus. (Reissue)	10,033	Oct. 22, 1885	33	460
Stearns, Joseph B., Boston, Mass., assignor to Western Union Telegraph Company, New York, N. Y.; disclaimer filed by assignee. Duplex-telegraph apparatus. (Reissue)	10,034	Oct. 22, 1885	33	460
Stearns, Joseph B., Boston, Mass., assignor to Western Union Telegraph Company, New York, N. Y.; disclaimer filed by assignee. Duplex-telegraph apparatus. (Reissue)	10,035	Oct. 22, 1885	33	460
Tarrant, Esau, Muskegon, Mich., assignor to John Torrent; disclaimer filed by assignee. Machine for turning logs. (Reissue)	5,487	June 3, 1885	31	1174
Taylor, Charles A., Chicago, Ill., assignor to A. A. L. Smith, Milwaukee, Wis.; disclaimer filed by assignee. Trunk	128,925	Mar. 7, 1885	30	998

ALPHABETICAL LIST OF INVENTIONS.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.
				Specification.	Drawing.	
Abdominal supporter	M. M. and J. H. Werum	323,003	July 28	2168	{ 575 } 32	418
Abrading-disk	J. G. Buzzell	317,622	May 12	936	{ 576 } 31	701
Accordion	F. Gessner	318,242	May 19	1755	{ 469 } 31	863
Accordion. Mechanical	C. Oettel	326,773	Sept. 22	2099	{ 546 } 32	1421
Accordion. Mechanical	C. Oettel	329,408	Oct. 27	2593	{ 609 } 33	493
Acid. Alphanaphtholsulphonic	H. Vollbrecht and C. Mensching	333,040	Dec. 22	2593	{ 31 } 31	1482
Acid. Apparatus for the manufacture of sulphuric	J. McNab	325,263	Sept. 1	42	{ 12, 13 } 32	1023
Acid. Manufacture of beta-naphthol sulphonic	M. Hoffmann	331,059	Nov. 24	2151	{ 33 } 33	959
Acid. Manufacture of beta-naphthylamine sulpho-	H. Prinz	332,829	Dec. 22	2287	{ 33 } 33	1428
Acid. Manufacture of hydrochloric	E. Solvay	316,300	Apr. 21	1818	{ 31 } 31	343
Acid. Manufacturing sulphuric	J. McNab	325,262	Sept. 1	40	{ 12 } 32	1023
Acid. Nitronaphtholsulphonic	H. Vollbrecht and C. Mensching	333,036	Dec. 22	2589	{ 33 } 33	1482
Acid. Production of chlorophthalic	R. Gnehm	322,368	July 14	1286	{ 32 } 32	244
Acid. Production of sulphurous	I. S. McDougall	311,593	Feb. 3	184	{ 52, 53 } 30	383
Acid. Purifying sulphuric	G. Thomson and W. Kemp	314,548	Mar. 94	2041	{ 30 } 30	1181
Acoustic diaphragm	W. Jones and W. W. Reynolds	322,295	July 14	1186	{ 311 } 32	226
Adding device for check-machines	C. W. Weiss and C. Kruse	320,421	Oct. 27	2615	{ 475 } 33	497
Adding-machine	M. Bouchet	314,561	Mar. 31	2065	{ 552 } 30	1213
Adding-machine	W. J. Macnider	322,190	July 14	1064	{ 276 } 32	202
Adding-machine	J. L. McCaleb	326,767	Sept. 22	2093	{ 543 } 32	1420
Adding-machine	L. W. Swern	327,970	Oct. 6	604	{ 157 } 33	108
Adding-machine	R. F. Wilcox	326,824	Sept. 22	2177	{ 578 } 32	1436
Addressing-machine	H. N. Bowman	327,993	Oct. 13	631	{ 167 } 33	121
Addressing-machine	A. Le Roy and B. Martignoni	325,945	Sept. 8	861	{ 244 } 32	1200
Addressing-machine	C. I. Wilmans	327,368	Sept. 29	2504	{ 758 } 32	157
Adjustable bracket	W. S. How	316,459	Apr. 28	2050	{ 538 } 31	47
Adjustable bracket	W. S. How	316,458	Apr. 28	2159	{ 568 } 31	47
Adjustable chair	W. E. Burk	320,844	June 23	2568	{ 679 } 31	1542
Adjustable chair	H. S. Felton	328,883	Oct. 20	1806	{ 470 } 31	344
Adjustable chair	A. J. Gibson	326,568	Sept. 29	2370	{ 622 } 32	1479
Adjustable chair	D. Wilcox	318,673	May 26	2236	{ 624 } 31	977
Adjustable chair	G. Wilson, Jr	326,369	Sept. 15	1545	{ 401 } 32	1315
Adjustable chair, invalid-bed rest, and stretcher. Combined	F. T. Dodge	327,775	Oct. 6	351	{ 90, 91 } 33	62
Adjustable seat	M. Miles	331,991	Dec. 8	1104	{ 287 } 33	1205
Advertiser and card-holder	J. M. Hubbard	319,720	June 9	1018	{ 269 } 31	1245
Advertising device	M. Jacobs	317,365	May 5	590	{ 152 } 31	631
Advertising device. Automatic	A. D. Littleton and J. M. Clark	326,997	Sept. 29	2413	{ 630 } 32	1486
Advertising device. Automatic	E. Mason	323,176	July 28	2407	{ 639 } 32	462
Advertising device. Automatic	J. McGreer	319,597	June 9	861	{ 228 } 31	1216
Advertising device. Automatic	D. J. Stephenson	317,240	May 5	422	{ 106 } 31	600
Advertising device. Automatic	C. M. Wheeler and E. B. Hindes	313,143	Mar. 3	138	{ 34 } 30	892
Advertising-mat	S. F. Gibson	321,431	July 7	24	{ 6 } 32	7
Advertising medium	W. C. Rogers	323,210	July 28	2458	{ 653 } 32	471
Advertising-packet. Perfumed	F. A. Merrell	325,107	Aug. 25	2316	{ 637 } 32	976
Advertising-sign. Bas-relief	H. Fechteler	331,290	Dec. 1	50	{ 12 } 33	1008
Advertising-wagon	A. König	328,689	Oct. 20	1562	{ 407 } 33	298
Aerated beverages. Apparatus for filling and sirup- ing	J. McEwen	322,738	July 21	1787	{ 471 } 32	341
Aerial navigation. Apparatus for effecting	F. W. Brearey	320,042	June 16	1467	{ 386 } 31	1331
Aerial navigation. Vessel for	E. F. Falconnet	311,885	Feb. 10	555	{ 172 } 30	460
Aerial navigation. Vessel for	E. F. Falconnet	311,886	Feb. 10	559	{ 153 } 30	461
Aerial navigation. Vessel for	E. F. Falconnet	311,887	Feb. 10	563	{ 154 } 30	461
Aerial navigation. Vessel for	E. F. Falconnet	311,888	Feb. 10	568	{ 155 } 30	462
Aerial navigation. Vessel for	E. F. Falconnet	311,888	Feb. 10	568	{ 156 } 30	462
Aerial navigation. Vessel for	E. F. Falconnet	311,888	Feb. 10	568	{ 157 } 30	462
Aerial navigation. Vessel for	E. F. Falconnet	311,888	Feb. 10	568	{ 158 } 30	462
Aerial navigation. Vessel for	E. F. Falconnet	312,344	Feb. 17	1219	{ 336 } 30	590
Aerial railway and car	A. J. Morrison	328,699	Oct. 20	1825	{ 475 } 33	348
Aerial ship	D. Stout	319,936	June 9	1319	{ 348 } 31	1297
Aeriform fluids. Apparatus for mixing	E. B. Denny and A. B. Griffen	327,146	Sept. 29	2613	{ 641 } 32	1520
Aeriform fluids. Apparatus for mixing	A. B. Griffen	320,060	June 16	1493	{ 374 } 31	1336
Aeriform fluids. Apparatus for mixing	C. C. Walworth and H. Seyter	322,661	July 21	1684	{ 446 } 32	322
Aero-steam engine	E. M. Strange	328,865	Oct. 20	1776	{ 467 } 33	339
Aging and preserving distilled and fermented liquids. Apparatus for	C. W. Ramsay	313,236	Mar. 3	298	{ 75 } 30	831
Agricultural fork	J. F. Allen	327,052	Sept. 29	2482	{ 648 } 32	1498
Agricultural implement. Combined	D. L. Aspinwall	317,276	May 5	469	{ 118 } 31	609

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Agricultural implement. Combined	J. F. Daves	318,171	May 19	1664	446	31	846
Agricultural machines. Tooth-securing device for	C. E. Stonesifer	322,567	July 21	1569	414	32	300
Air and combustible vapor. Apparatus for mixing	G. A. Schoth	325,422	Sept. 1	320	77	32	1076
Air and gas compressor valve	W. H. Worthen	330,539	Nov. 17	1494	399	33	805
Air and gas compressor valve	W. H. Worthen	333,096	Dec. 22	2668	700	33	1406
Air and gas engine	S. Wilcox	332,312	Dec. 15	1561	410	33	1391
Air and steam brakes. Alarm-coupling for	C. R. Van Ruyven	314,758	Mar. 31	2313	615	30	1258
Air and steam heater	G. Nixon, Jr.	325,062	Sept. 8	926	250	32	1304
Air apparatus. Operating compressed	A. C. Donglass	315,013	Apr. 7	37	8	31	8
Air-brake	W. V. Hanscom	336,646	Sept. 22	1805	499	32	1266
Air-brake. Automatic	W. B. W. Howe, Jr., and A. Gärtner	321,971	July 14	771	201	32	148
Air-brake. Automatic	R. M. McKinney	311,196	Jan. 27	1378	377	30	274
Air-brake for locomotives and railway-cars	C. A. Bass	312,245	Feb. 17	1074	366	30	563
Air-brake for railway-cars	L. E. Sloan	327,027	Sept. 29	2446	639	32	1492
Air-brake valve	L. E. Sloan	330,164	Nov. 10	1002	262	33	704
Air-brakes. Automatic pressure-regulator for	W. Dunbar	316,017	Apr. 21	1442	376	31	274
Air-brakes. Grease and water trap for	F. Mertheimer and S. Otis	324,375	Aug. 18	1567	437	32	233
Air compressing and storing apparatus	C. Leavitt	320,482	June 23	2111	556	31	1455
Air-compressing engine	R. P. Bolton	314,218	Mar. 24	1505	421	30	1009
Air-compressing engine	F. E. Corey	311,108	Jan. 20	1248	342	30	244
Air-compressor	J. B. Erwin	329,377	Oct. 27	2546	656	33	434
Air-compressor	W. T. Fox	321,306	June 30	3054	810	31	1637
Air-compressor	W. T. Fox	321,207	June 30	3056	811	31	1637
Air-compressor	C. Monson	328,592	Oct. 20	1433	373	33	276
Air-compressor. Hydraulic	J. B. Erwin	333,208	Dec. 29	2822	740	33	1529
Air-engine	J. A. Woodbury, J. Merrill, G. Pat- ten, and E. F. Woodbury.	324,062	Aug. 11	890	245	32	605
Air-engine	J. A. Woodbury, J. Merrill, G. Pat- ten, and E. F. Woodbury.	331,359	Dec. 1	142	35, 36	33	1023
Air-engine	J. A. Woodbury, J. Merrill, G. Pat- ten, and E. F. Woodbury.	331,361	Dec. 1	144	36 37 38	33	1024
Air-exhauster and water-elevator. Combined	T. Arthur	330,366	Nov. 17	1272	338	33	763
Air for confectioners' use. Apparatus for cooling	C. Weinspach	331,928	Dec. 8	1017	264	33	1188
Air for furnaces and other purposes. Apparatus for drying	C. Cochrane	333,393	Dec. 20	3077	803	33	1574
Air for refrigerating and other purposes. Apparatus for cooling	H. F. Hodges	331,881	Dec. 8	943	243	33	1175
Air for the preservation of meat, &c. Process of and apparatus for dehydrating and refrigerating	H. C. Johnson	338,685	Oct. 20	1556	405	33	297
Air-fencing apparatus	O. Millard	312,371	Feb. 17	1252	345	30	596
Air in cotton-mills, &c. Apparatus for moistening	M. Sherman	324,043	Aug. 11	859	238	32	670
Air in malt-houses, &c. Apparatus for circulating and tempering	L. J. Wing	312,597	Feb. 17	1562	426	30	655
Air. Machine for separating dust from	W. C. Wheeler	324,440	Aug. 18	1413	385 386	32	801
Air-moistening and purifying apparatus	C. Wurster	329,115	Oct. 27	2164	560	33	414
Air-motor	A. M. Koniakowsky	322,610	July 21	1029	431	32	312
Air or steam brake. Automatic	E. J. Coogrove	322,042	July 14	869	226	32	166
Air-pressure apparatus and refrigerator. Combined.	C. and G. M. Helntz and A. Dotter- weich.	311,831	Feb. 3	478	130	30	432
Air-ship	J. S. Foster	320,548	June 23	2200	581	31	1471
Air-ship	N. Helmer	328,218	Oct. 13	922	240	33	175
Air-ship	A. Spler	319,758	June 9	1059	281	31	1252
Air-spring	L. Smith	321,768	July 7	469	129	32	91
Air-tight vessels. Device for closing	A. Evans	322,433	July 21	1375	360	32	267
Alarm:							
See Burglar-alarm.	Locomotive-alarm.						
Door-alarm.	Low-water alarm.						
Electric alarm.	Railway-alarm.						
Electrical alarm.	Railway-train alarm.						
Feed-water alarm.	Steam-boiler alarm.						
Fire-alarm.	Till-alarm.						
Grain-binder-cord alarm.	Watch-stand alarm.						
Alarm	G. M. Williams	328,160	Oct. 13	859	223	33	162
Alarm door-fastening	M. M. Roberts	313,371	Mar. 3	469	122	30	863
Alarm-lock	G. Bredge	326,640	Sept. 22	2195	572	32	1439
Alarm-lock for tills	E. H. Vollrath and J. C. McCready	310,627	Jan. 13	598	164	30	120
Alarm mechanism and apparatus for operating the same.	W. M. Pease	312,504	Feb. 17	1444	306	30	632
Album	L. Goodwin	318,891	May 26	2631	698	31	1030
Album-clasp	E. P. Hinkel	310,428	Jan. 6	343	94	30	67
Album. Photograph	A. P. Johnson	318,908	May 26	2653	703	31	1034
Albumen from fish-roe. Obtaining substitute for	J. M. Ordway	319,503	June 9	725	201	31	1191
Alcohol and hydrocarbons and rectifying and aging liquors. Manufacturing and distilling	D. D. Cattanaach	320,715	Sept. 22	1994	523	32	1405
Alcohol, hydrocarbons, and acetic acid, and for aging and refining liquors. Apparatus for the manufacture and distillation of	D. D. Cattanaach	326,716	Sept. 22	2000	524	32	1405
Alcohol. Purifying	I. A. F. Bang and M. C. A. Ruffin	314,910	Mar. 31	2548	674	30	1300
Aligning instrument	R. Garich	322,921	July 28	2048	541	32	396
Alkaline silicates. Treating	C. S. Lockwood	317,389	May 5	621	31	636	
Alkaline silicates, &c. Treating	C. S. Lockwood and J. W. Hyatt	317,387	May 5	618	31	636	
Alloy	A. C. Tichenor	330,072	Nov. 10	867	33	659	
Alloy for coating metals	C. E. Manly	328,239	Oct. 13	949	33	150	
Alloy or compound in producing the same. Metallic	H. J. F. Nicwerth	332,736	Dec. 22	2175	33	1406	
Alphabet-block	D. C. Taylor	322,210	July 14	1069	283	32	207
Altar	E. Y. Chevalier	325,498	Sept. 1	376	92	32	1087
Alum. Manufacture of crystal	H. C. Freist	328,477	Oct. 20	1977	33	246	

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Alumina by paper-mill sludge. Manufacture of	C. V. Petraeus	312,894	Feb. 24	1950		30	733
Alumina. Manufacture of hydrate of	H. C. Freist	328,478	Oct. 20	1268		33	246
Aluminium. Apparatus for obtaining	M. G. Farmer	315,286	Apr. 7	396	99	31	72
Aluminium. Electric smelting for obtaining	E. H. Cowles, C. F. Mabery, and A. H. Cowles.	324,659	Aug. 18	1717		32	857
Amalgam-strainer	J. Kirby	315,637	Apr. 14	922	241	31	172
Amalgamating apparatus	W. E. Koch	320,565	June 23	2216	586	31	1475
Amalgamating apparatus	A. Miller	311,352	Jan. 27	1608	439	30	315
Amalgamating apparatus	A. Miller	311,353	Jan. 27	1607	439	30	316
Amalgamating apparatus	A. Miller	311,354	Jan. 27	1608	440	30	316
Amalgamating apparatus	A. Miller	311,355	Jan. 27	1609	440	30	316
Amalgamating ores	F. Hollick	314,578	Mar. 31	2086		30	1216
Amalgamating ores. Apparatus for	M. P. Boes. (Reissue)	10,549	Jan. 13	899	243 244	30	175
Amalgamating-pan	J. A. Bidwell	313,164	Mar. 3	176	43	30	809
Amalgamating-pan	M. P. Boes	325,387	Sept. 1	227	58	32	1058
Amalgamating-pan and settler apparatus for treating ores	M. P. Boes	315,893	Apr. 14	1274	332	31	237
Amalgamator	M. J. Amick	332,473	Dec. 15	1781	466	33	1329
Amalgamator	R. J. Atcherley	312,240	Feb. 10	1063	292	30	553
Amalgamator	J. C. Blovney	310,172	Jan. 6	14	4	30	5
Amalgamator	F. L. Downend	326,483	Sept. 15	1675	437	32	1339
Amalgamator	E. Pike	327,193	Sept. 29	2680	696	32	1,333
Amalgamator	D. S. Randolph	311,258	Jan. 27	1466	401	30	291
Amalgamator	S. L. Trippe	318,932	May 26	2683	711	31	1039
Amalgamator and concentrator	B. Tyson	322,546	Oct. 20	1354	353 354	33	262
Amalgamator. Cylindrical	J. W. Hilton	323,148	July 28	2363	627	32	454
Amalgamator. Dry-ore	H. Kappner	320,937	June 30	2700	716 717	31	1572
Ammonia. Apparatus for producing	C. H. Schneider	325,771	Sept. 8	748	187 178	32	1160
Ammoniacal gas. Apparatus for producing	C. B. Lee	322,458	July 21	1413	370	32	273
Ammonium chloride. Making	T. Schmidtbörn	330,155	Nov. 10	990		33	701
Ammonium sulphate. Apparatus for the manufacture of	C. Meyer, Jr.	316,381	Apr. 21	1927	508	31	361
Ammonium sulphate. Making	E. A. Fales	318,972	June 2	61	15	31	1059
Anæsthetic mixture	U. K. Mayo	320,150	June 16	1617		31	1358
Anemometer	E. A. Edwards	315,261	Apr. 7	390	87	31	71
Anchor	S. Baxter	318,229	May 19	1743	466	31	861
Anchor	D. L. Coles	327,767	Oct. 6	343	88	33	60
Anchor	J. A. Pettos	314,149	Mar. 17	1510	396	30	1071
Anchor	P. Protheroe	310,614	Jan. 13	582	160	30	111
Anchor-bolt	W. S. Craig	332,701	Dec. 22	2131	562	33	1397
Anchor-chain compressor and stopper	W. D. Gold	311,117	Jan. 20	1250	345	30	246
Anchor. Land	G. H. Cook	314,367	Mar. 24	1799	478	30	1138
Anchors. Fitting for and method of seating ships'	S. Baxter	323,774	Aug. 4	513	144	32	619
Ankle-iron	D. O. Paige	319,305	June 2	449	121	31	1133
Animal-catcher	W. Ramm	320,167	June 16	1634	435	31	1361
Animal-guard	J. H. Fenton	318,973	June 2	62	16	31	1059
Animal-power	M. Thompson and J. Kucher	314,492	Mar. 24	1971	521 525	30	1168
Animal-power	E. J. Yarbrough and J. M. Kyker	321,876	July 7	646	167	32	117
Animal-powers. Governor for	S. D. Shepperd	317,586	May 12	876	227	31	692
Animal-releasing device	S. Coats	327,930	Sept. 29	2727	708	32	1542
Animal-shears	T. Brown	315,237	Apr. 7	373	89	31	65
Animal-shears	G. H. Coates	315,733	Apr. 14	1053	276	31	198
Animal-stock	C. Parker	321,999	July 14	111	212	32	156
Animal-trap	C. W. Barkley	330,668	Nov. 17	1749	444	33	837
Animal-trap	C. M. Crowe	331,945	Dec. 8	1041	270	33	1194
Animal-trap	J. M. Desart	324,238	Aug. 11	1136	309	32	741
Animal-trap	S. S. Greene	328,669	Oct. 20	1540	400 401	33	294
Animal-trap	W. R. Hampton	330,695	Nov. 17	1690	456	33	845
Animal-trap	R. Jesseo	312,124	Feb. 10	897	244	30	522
Animal-trap	M. B. Marshall	322,736	July 21	1785	471	32	340
Animal-trap	W. T. Moore	326,513	Sept. 15	1715	447	32	1347
Animal-trap	B. T. Otos	311,778	Feb. 3	412	112	30	425
Animal-trap	E. P. Peacock	314,602	Mar. 31	2113	563	30	1221
Animal-trap	S. K. Reynolds	329,062	Oct. 27	2120	549	33	406
Animal-trap	J. Schaffer	313,957	Mar. 17	1268	331	30	1099
Animal-trap	J. Schaffer	314,301	Mar. 24	1714	456	30	1121
Animal-trap	L. N. B. Sorrell	318,146	May 19	1633	436	31	840
Animal-trap	R. M. Tate	326,460	Sept. 15	1649	431	32	1334
Animal-trap	F. Wolfe	332,175	Dec. 8	1380	356	33	1252
Animals. Instrument for dosing	G. S. Fales	323,406	Aug. 4	32	8	32	529
Animals. Machine for exterminating ground-burrowing	A. Anderson	329,252	Oct. 27	2355	610	33	451
Animals' mouths. Device for opening	J. A. Green	314,527	Mar. 24	2017	538	30	1176
Animals to be shod. Device for holding	T. P. McCreight	316,558	Apr. 28	2171	571 572 573	31	412
Animals. Structure for handling vicious	C. F. Shedd	320,710	June 23	2407	637 638	31	1510
Ankle-support	G. C. McEwen	332,727	Dec. 22	2164	571	33	1403
Ankle-support	G. C. McEwen	332,728	Dec. 22	2165	571	33	1403
Annealing wire and metal in other forms. Apparatus for	S. Fox	310,403	Jan. 6	318	88	30	62
Annunciator	C. E. Dev	323,921	Aug. 11	698	195	32	662
Annunciator	D. S. Foose	333,063	Dec. 22	2610	666	33	1466
Annunciator	J. E. McDuff and J. F. Doherty	315,313	Apr. 7	455	115	31	63
Annunciator	H. E. Walte	325,463	Sept. 1	332	80	32	1078
Annunciator and alarm. Combined	F. E. Kinaman	330,001	Nov. 24	1961	531	33	901
Annunciator and circuit. Telephone	J. Horlehan	333,014	Dec. 22	2555	673	33	1476
Annunciator and fire-telegraph	C. K. Percy	317,569	May 13	803	221	31	688

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.-g.	Vol.	Page.
Annunciator and spring-jack. Combined.	L. Townsend	310,750	Jan. 13	756	206	30	149
Annunciator. Automatic electric	C. W. Price and A. Darrett	331,257	Nov. 24	2451	662	33	990
Annunciator-drops. Resetting	C. W. Holtzer	315,035	Apr. 7	67	16	31	14
Annunciator. Electric	A. E. Briggs	327,997	Oct. 13	636	168	33	122
Annunciator. Electrical	R. Edwards	324,369	Aug. 18	1316	357	32	783
Annunciator for telephone systems	W. A. Childs and F. Shaw	311,472	Feb. 3	13	4	30	351
Annunciator. Pneumatic	W. Thomas	324,500	Aug. 18	1489	408	32	814
Annunciator. Speaking-tube	R. May	310,601	Jan. 13	568	157	30	115
Ant-trap	W. H. Thompson	331,099	Nov. 24	2211	599	33	949
Anti-friction wheel or roller	W. Kratzer	320,366	June 16	1940	511	31	1414
Anti-frictional material and journal or other bearing.	F. E. Canda	313,916	Mar. 17	1208	30	1018	
Antiphone	J. M. Pleasner	322,003	July 14	815	213	32	157
Anvil	D. E. MacCarthy	314,390	Mar. 24	1828	486	30	1144
Anvil	J. Mackert	327,566	Oct. 6	84	19	33	16
Anvil, drill, and vice. Combined	H. Childers	326,402	Sept. 15	1581	411	39	1392
Anvil for rivet setting machines	G. H. Meade	325,069	Sept. 8	627	159	32	1138
Anvil, vice, and drill. Combined	R. Vosburgh	329,550	Oct. 20	1367	356	33	863
Anvil, vice and drill. Combined	J. Wethers	311,304	Jan. 27	1660	453	30	325
Apparel. Wearing.	J. Waltemeyer and H. J. Ennis	315,360	Apr. 7	518	132	31	94
Apron guide. Endless.	J. W. Millet	311,844	Feb. 3	401	134	30	441
Apron-slat fastening	W. F. Dickson	331,048	Dec. 8	1049	270	33	1195
Aquarium and maritime theater. Combined	J. Wenmaekers	324,508	Aug. 18	1500	412	32	817
Arbor and collet. Making a combined spring	G. E. Hart	328,308	Oct. 13	1034	267	33	186
Arbor wheel and ratchet. Stem	G. E. Hart	328,307	Oct. 13	1033	267	33	195
Arch-bars. Machine for making	C. Atkins	312,244	Feb. 17	1071	285	30	583
Arch. Trimmer	W. S. Eames	322,047	July 14	876	227	32	168
Arches. Laying artificial-stone or concrete	P. H. Jackson	317,793	May 12	1157	306	31	743
Arches. Support for centers of masonry	C. H. Ackerson	317,072	May 5	186	47	31	557
Arched burner	F. Rhind	322,321	July 14	1221	320	32	822
Arithmetical chart	T. Hooley	324,376	July 14	1300	339	32	247
Arm and hand. Artificial	G. Beacock and T. Sparham	329,878	Nov. 10	624	158	33	628
Arm-chair and writing-desk	C. W. Vogel	310,626	Jan. 13	596	164	30	120
Armature-springs. Adjusting	J. F. Gilliland	315,017	Apr. 7	42	9	31	9
Armet	H. B. Dittwiler	321,422	July 7	10	3	32	4
Armor for vessels, forts, &c.	W. N. Le Page	314,456	Mar. 24	1910	510	30	1159
Armpit-shield	W. Betty	312,320	Feb. 17	1186	324	30	784
Artist's palette-cup	H. Serrell	325,872	Sept. 8	878	221	32	1184
Artist's sketch-box	W. T. Brundage	332,045	Dec. 8	1187	310	33	1219
Asbestos board, felt, or paper with other flexible material. Combination of	F. Line	333,138	Dec. 29	2735	718	33	1513
Asbestos to form crucibles, &c. Treating	M. S. Thompson	330,171	Nov. 10	1010	33	705	
Ash-leach	J. H. Moran	326,581	Sept. 22	1804	473	32	1371
Ash or garbage receptacle	W. Baynes and A. R. Clark	330,201	Nov. 10	1047	273	33	712
Ash-pan	J. Hoffer and G. Martin	332,527	Dec. 15	1870	489	33	1344
Ash pan and sifter. Combined	L. E. Phelps	331,322	Dec. 1	29	21	33	1015
Asphaltic cement for paving, roofing, &c.	A. L. Barber	330,187	Nov. 10	1043	33	711	
Asphaltic mastic	A. L. Barber	330,186	Nov. 10	1041	33	711	
Asphaltic tiling and paving material	J. Rice, A. Stelger, and I. L. Thurber	322,970	July 28	2125	32	410	
Asphaltum, &c. Apparatus for heating	J. J. Schilling	322,325	July 14	1224	321	32	223
Asphaltum. Working and using	J. Rice, A. Stelger, and I. L. Thurber	319,125	June 2	239	31	1091	
Assembling-bolt	J. G. Staunton	314,075	Mar. 17	1407	367	39	1056
Atmospheric orake	W. O'Hern	312,155	Feb. 10	953	260	30	533
Atomizer	W. H. Blunt	327,977	Oct. 6	612	160	33	111
Atomizer	F. H. Clark	327,237	Sept. 29	2725	708	32	1541
Atomizer	J. F. Corbly	322,908	July 28	2030	536	32	392
Atomizer	A. S. Hibbard	310,999	Jan. 20	1094	299	30	216
Atomizer	B. F. Sutton	318,030	May 26	2680	710	31	1039
Atomizer	T. L. Startevant	316,921	Apr. 28	2698	703	31	509
Attrition mill	G. F. Stearns	333,170	Dec. 29	2777	727	33	1520
Auger	J. Swan	320,097	June 16	1543	408	31	1346
Auger anchor. Ground.	H. Boehmke and G. Bohlken	315,593	Apr. 14	863	227	31	160
Auger-bit	H. S. Lord	329,660	Nov. 3	314	80	33	564
Auger-bit	F. Shailer	323,454	Aug. 4	91	26	32	539
Auger-bits. Machine for the manufacture of	J. Swan	313,456	Mar. 3	564	150	30	885
Auger blade. Earth	A. Schulte	331,006	Nov. 24	2096	567	33	927
Auger blades. Machine for shaping post.	C. L. Carter	326,399	Sept. 15	1578	410	32	1221
Auger. Earth	S. Cary	331,767	Dec. 8	784	192	33	1146
Auger. Earth	J. M. Cross	317,739	May 12	1076	282	31	728
Auger. Earth	W. W. Curtis	331,228	Nov. 24	2404	651	33	983
Auger. Earth	R. L. Fosburgh	322,365	July 14	1284	335	32	244
Auger. Earth	T. A. Porter	318,653	May 26	2308	617	31	972
Auger. Earth	T. Porter	324,162	Aug. 11	1025	280	32	720
Auger-handle	W. A. Ives	313,739	Mar. 10	952	246	30	963
Auger-heads. Device for making dies for forming	F. W. Hastings	321,967	July 14	766	200	32	147
Auger. Hollow	G. W. England	317,524	May 12	809	208	31	678
Auger. Hollow	P. Miller	332,274	Dec. 15	1514	307	33	1223
Auger. Post-hole	J. Bense and A. Sievert	317,401	May 12	769	196	31	671
Auger. Post-hole	F. Grimm	330,580	Nov. 17	1542	413	33	815
Auger. Post-hole	J. Hagans	328,976	Sept. 29	2385	624	32	1481
Auger. Post-hole	A. C. Osborn	310,608	Jan. 13	576	130	30	116
Augers. Die for shaping single-twist	D. S. Holley	331,708	Dec. 1	600	171	33	1121
Augers. Machine for working well.	S. S. Collins	331,617	Dec. 1	566	138	33	1096
Aurine. Manufacture of derivatives of	C. Lowe	316,471	Apr. 28	2026	51	31	392
Aurine. Manufacture of the derivatives of	C. Lowe	318,484	May 26	2075	51	31	831
Automatic drill	J. Hughes	315,411	Apr. 7	557	151	31	106
Automatic frozless switch	A. E. Strong	321,520	July 7	659	182	32	127
Automatic gate	O. J. Scott	323,668	Aug. 4	649	184	32	646
Automatic guard or track-clearer	H. M. Taaffe	326,668	Sept. 22	1925	507	32	1391
Automatic lubricator	J. E. Fletcher	333,404	Dec. 29	3092	806	33	1578

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Automatic lubricator	G. McNeill	313,095	Mar. 3	73	90	30	791
Automatic sprinkler	F. B. Comins	322,685	July 21	1711	453	32	528
Automatic sprinkler	W. S. Jordan	330,125	Nov. 10	957	248	33	094
Automatic sprinkler	A. K. Rider	326,155	Sept. 15	1244	310	32	1259
Automatic switch	W. H. McKinley	318,011	May 19	1461	390	31	808
awl for attaching buttons	R. and O. Miller	312,491	Feb. 17	1418	391	30	627
Awning	A. J. Bonner, Jr.	328,279	Oct. 13	997	259	33	188
Awning	A. J. Bonner, Jr., and P. Vanden Bergho.	316,518	Apr. 28	2125	559	31	404
Awning	F. X. Drenner	330,956	Nov. 24	2037	551	33	916
Awning	E. C. Cook	328,921	Oct. 27	1868	488	33	363
Awning	W. Downey	322,260	July 14	1153	301	32	219
Awning	E. A. Hildebrandt	323,418	Aug. 4	46	12	32	5-1
Awning	W. A. Nelson	313,757	Mar. 10	980	253	30	908
Awning	R. J. Powell	333,479	Dec. 29	3194	635	33	1593
Awning-frame	J. Read	312,892	Feb. 24	1955	535	30	733
Awning or shade. Window and door	G. W. Cook	315,250	Apr. 7	379	94	31	69
Awning. Window	T. L. Barlow	317,485	May 12	702	194	31	670
Awning. Window	J. N. Colby	328,567	Oct. 20	1388	362	33	268
Awning. Window	W. H. Jolliffe	323,338	July 28	2642	703	32	503
Awning. Window	M. Moncymont	311,510	Feb. 3	68	20	30	362
Awning. Window	C. M. Roche	327,318	Sept. 29	2833	739	32	1560
Ax	W. Harvey	327,164	Sept. 29	2639	686	32	1524
Ax	W. C. Kelly	327,215	Sept. 29	2777	721	32	1550
Ax-blank	H. Hammond	316,614	Apr. 28	2247	592	31	427
Ax-bit blanks. Die for making	C. W. Hubbard	314,674	Mar. 31	2208	588	30	1238
Ax-making machine	E. Yerkes and C. Denn	317,320	May 5	533	135	31	621
Ax-poll clips. Die for forming	J. U. Hubbard	314,845	Mar. 31	2457	649	30	1284
Ax-polls. Machine for finishing	T. Ryan	332,215	Dec. 8	1432	369	33	1262
Axes, &c. Blank for	J. W. Bowers	311,866	Feb. 10	531	148	30	4-6
Axes. Die for making	J. W. Bowers	311,867	Feb. 10	533	146	30	4-6
Axes. Forming the edges of	H. Hammond	326,645	Sept. 22	1894	498	32	1386
Axes, hatchets, &c. Machine for making	L. B. Hunt	314,842	Mar. 31	2453	647	30	1284
Axes. Manufacture of	V. Halter	323,671	Aug. 4	378	108	32	593
Axes. Manufacture of	H. Hammond	316,617	Apr. 28	2246	592	31	426
Axes. Manufacture of	H. Hammond	321,494	July 7	114	30	32	23
Axle	W. I. Corry	328,010	Oct. 13	655	172	33	125
Axle	F. C. Hockensmith	329,453	Nov. 3	31	9	33	511
Axle and box. Carriage	J. Fowler	321,205	June 30	3053	809	31	1636
Axle-bearing. Car.	P. Cool	326,955	Sept. 29	2362	618	32	1476
Axle-bearing. Anti-friction	A. W. Spatzier	323,866	Aug. 11	756	210	32	673
Axle-bearings. Composition of matter for the manufacture of	I. P. Wendell	325,881	Sept. 8	890	211	32	1187
Axle-bearings, &c. Composition of matter for the manufacture of	I. P. Wendell	325,882	Sept. 8	890		32	1187
Axle-bearings, &c. Composition of matter for the manufacture of	I. P. Wendell	325,883	Sept. 8	891		32	1187
Axle-bearings, &c. Composition of matter for the manufacture of	I. P. Wendell	325,885	Sept. 8	891		32	1187
Axle-bearings, &c. Composition of matter for the manufacture of	I. P. Wendell	325,886	Sept. 8	892		32	1187
Axle-bearings, &c. Composition of matter for the manufacture of	I. P. Wendell	325,887	Sept. 8	892		32	1187
Axle-bearings, &c. Composition of matter for the manufacture of	I. P. Wendell	325,888	Sept. 8	893		32	1187
Axle-bearings, &c. Composition of matter for the manufacture of	I. P. Wendell	325,889	Sept. 8	893		32	1187
Axle-box	E. R. Curtiss	322,584	July 21	1590	419	32	304
Axle-box	A. Fontayne	315,927	Apr. 14	1323	344	31	246
Axle-box	B. M. Johnson	328,683	Oct. 20	1554	405	33	297
Axle-box	L. Leirer	332,209	Dec. 22	2261	506	33	1422
Axle box and skein	L. and W. Bimel	310,778	Jan. 13	793	215	30	156
Axle box. Car.	S. A. Bemis	311,717	Feb. 3	331	92	30	411
Axle box. Car.	G. W. Sr. and T. Bemis	318,255	May 26	2582	688	31	1020
Axle box. Car.	R. Brewer	327,916	Oct. 6	531	132	33	95
Axle box. Car.	G. M. Brill	324,220	Aug. 11	1117	302	32	738
Axle box. Car.	J. G. Brill and E. H. Zitsman	312,181	Feb. 10	990	270	30	539
Axle box. Car.	W. D. Cooper	326,405	Sept. 15	1583	412	32	1222
Axle box. Car.	N. W. Cutter	330,222	Nov. 17	1852	499	33	874
Axle box. Car.	C. Decker	325,593	Sept. 1	500	125	32	1111
Axle box. Car.	G. E. De Grange and W. G. Green	318,879	May 26	2617	685	31	1027
Axle box. Car.	M. H. Dooley and J. D. O'Callaghan	323,645	Aug. 4	347	98	32	587
Axle box. Car.	M. Dougherty	332,646	Dec. 15	2040	535	33	1775
Axle box. Car.	J. Fischer	328,204	Oct. 13	904	235	33	172
Axle box. Car.	E. J. Frost and W. Dawson	325,668	Sept. 8	603	152	32	1134
Axle box. Car.	J. P. Garton	321,710	July 7	401	107	32	75
Axle box. Car.	M. C. Harney	315,278	Apr. 7	413	103	31	75
Axle box. Car.	R. Hunter	318,187	May 19	1689	451	31	850
Axle box. Car.	S. R. Hughes	320,219	Sept. 15	1338	346	32	1276
Axle box. Car.	C. C. Jenkins	323,312	Oct. 13	1037	268	33	198
Axle box. Car.	C. H. Kock	331,893	Dec. 8	992	240	33	1178
Axle box. Car.	W. C. Miller	320,607	Nov. 17	1575	422	33	821
Axle box. Car.	J. Sagmeister	332,112	Dec. 8	1972	335	33	1237
Axle box. Car.	W. S. Schroeder	321,216	July 28	2466	655	32	473
Axle box. Car.	J. O. Scott	319,514	June 9	740	198	31	1194
Axle box. Car.	C. H. Shattuck	317,680	May 12	1009	263	31	714
Axle box. Car.	E. B. Strong	320,412	June 16	2016	529	31	1429
Axle box. Car.	T. Thatcher	318,520	May 26	2135	575	31	942
Axle box. Car.	J. Timms	316,501	Apr. 28	2108	654	31	400
Axle box. Car.	J. Timms	319,645	June 9	919	243	31	1226

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Axle box. Car.	W. E. Wilcox	315,581	Apr. 14	850	294	31	158
Axle box. Car.	J. S. Williams	325,466	Sept. 1	335	81	32	1079
Axle box. Car.	S. Wills	314,408	Mar. 24	1849	493	30	1148
Axle-box cover. Car.	J. Tesseymann	321,064	July 7	337	90	32	64
Axle-box lid. Car.	T. H. Haberkorn	310,420	Jan. 13	843	229	30	165
Axle cap. Carriage.	J. O. Couch	327,658	Oct. 6	217	54	33	38
Axle cap. Carriage.	J. M. Schorb, Jr.	327,727	Oct. 6	299	76	33	58
Axle cap. Carriage.	O. A. and J. T. Smith and J. O. Couch	327,732	Oct. 6	304	78	33	53
Axle. Car.	G. W. Bedbury	317,706	May 12	1041	270	31	721
Axle. Car.	C. Decker and A. Trombly	320,555	June 23	2585	624	31	1545
Axle. Car.	G. W. Wilkinson	319,369	June 2	528	144	31	1148
Axle. Carriage.	D. A. Brown	325,450	Aug. 25	2247	617	32	963
Axle. Carriage.	P. Cool	317,305	May 5	509	130	31	616
Axle. Carriage.	W. Jones (Reissue)	1,353	Apr. 21	2006	527	31	375
Axle. Carriage.	H. Killam	315,399	Apr. 7	436	110	31	79
Axle clip. Vehicle.	E. N. Hatcher	312,465	Feb. 17	1377	380	30	620
Axle cutter and threader.	E. F. Dalton	311,647	Feb. 3	250	69	30	395
Axle. Divided car.	H. Thielen and H. W. Dilg	329,604	Nov. 3	248	64	33	552
Axle end-bearing. Car.	T. Thatcher	313,352	Mar. 3	332	79	30	835
Axle iron. Carriage.	C. F. Harrington	321,391	June 30	3156	841	31	1656
Axle-lubricator.	W. Cole, Jr.	322,505	July 22	2022	535	32	391
Axle-lubricator.	J. H. Coleman	320,516	Nov. 3	528	134	33	604
Axle-lubricator.	J. M. Denney	319,679	June 9	957	253	31	1223
Axle-lubricator.	J. A. Lano	318,046	Apr. 21	1478	386	31	281
Axle-lubricator. Car.	E. L. Cleveland	315,092	Apr. 7	22	6	31	6
Axle-lubricator. Car.	D. Duprat	330,968	Nov. 24	2051	555	33	919
Axle-lubricator. Car.	I. Fréchette and C. L. Girard	320,343	June 16	1900	500	31	1408
Axle-lubricator. Car.	N. M. George	322,278	July 14	1165	305	32	222
Axle-lubricator. Car.	T. R. Gordon	311,743	Feb. 3	366	101	30	417
Axle-lubricator. Car.	J. D. Graham	310,941	Jan. 20	1011	273	30	900
Axle-lubricator. Car.	C. P. Holmes and N. M. George	322,392	July 14	1162	310	32	225
Axle-lubricator. Car.	F. J. Leibman	315,042	Apr. 7	78	19	31	16
Axle-lubricator. Car.	R. Munro	320,382	June 16	1974	519	31	1422
Axle lubricator. Car.	J. C. Nichol	330,257	Nov. 10	1111	285	33	725
Axle lubricator. Car.	D. Ross	326,524	Sept. 15	1729	451	32	1349
Axle lubricator. Car.	F. L. Shallenberger	328,257	Oct. 13	968	252	33	184
Axle lubricator. Car.	W. H. Sterling and D. D. Waas	323,605	Aug. 4	292	84	32	576
Axle lubricator. Car.	S. J. Wallace	310,755	Jan. 13	763	207	30	150
Axle-nut. Adjustable.	F. L. French	313,311	Mar. 3	309	90	30	849
Axle-nut. Adjustable.	J. H. Steen	333,030	Dec. 22	2580	678	33	1481
Axle nut-lock. Vehicle.	J. Conway	319,791	June 9	1111	295	31	1361
Axle nut. Vehicle.	A. V. Smith	321,255	June 30	3113	828	31	1647
Axle or journal bearings. Composition of matter for the manufacture of	I. P. Wendell	325,884	Sept. 8	891	294	32	1187
Axle sand-band. Vehicle.	S. Heffley	321,435	July 7	27	7	32	8
Axle. Self-lubricating.	H. G. Farr	316,672	Apr. 28	2241	590	31	425
Axle-skein	J. R. Sandage	313,765	Feb. 24	1780	491	30	704
Axle skein and box	W. B. Meacham	311,774	Feb. 3	408	110	30	425
Axle-skeins. Making	R. Gracey	328,481	Oct. 20	1271	330	33	947
Axle-straightener.	J. Owen	328,137	Oct. 13	817	213	33	155
Axle-tool	A. W. Bartholomew	320,748	June 23	2451	650	31	1520
Axle-trees. Machine for cross-grooving	G. Watson	319,361	June 2	520	142	31	1147
Axle-trimming tool	W. R. Sharp	312,521	Feb. 17	1466	401	30	635
Axle truss. Wagon.	F. Ulrich	312,676	Feb. 24	1661	458	30	662
Axle. Tubular.	E. Peckham	313,517	Mar. 10	662	179	30	940
Axle. Vehicle.	I. W. Archibald	333,049	Dec. 22	2602	681	33	1484
Axle. Vehicle.	S. M. Bennett and J. H. Sullivan	316,439	Apr. 28	2030	538	31	385
Axle. Vehicle.	G. M. Forbes	326,284	Sept. 15	1427	379	32	1892
Axle. Vehicle.	C. Huehn	310,974	May 5	58	15	31	533
Axle. Vehicle.	P. K. Hughes	320,835	Nov. 3	558	142	33	609
Axle. Vehicle.	W. E. Jacobs	318,118	May 19	1596	426	31	833
Axle. Vehicle.	P. D. Kearney	315,041	Apr. 7	77	18	31	15
Axle. Vehicle.	J. I. McCalop	313,805	Dec. 8	827	210	33	1153
Axle. Vehicle.	C. Wonacott	320,201	June 16	1676	446	31	1369
Axle. Wagon.	A. E. Parker	312,502	Feb. 17	1441	385	30	631
Axle. Wagon.	A. E. Snell	314,981	Mar. 31	2650	701	30	1317
Axles. Device for cutting and screw-threading wagon.	G. H. Williams	317,694	May 12	1028	267	31	718
Axles. Implement for straightening	J. A. George	327,787	Oct. 6	365	93	33	64
Axles or shafts. Device for turning	J. H. Coon	316,119	Apr. 21	1586	412	31	301
Baby-jumper	H. S. Peck	331,434	Dec. 1	257	69	33	1044
Back band	J. W. Gardner	332,888	Dec. 22	2376	628	33	1442
Back-band hook	L. Hewitt	325,831	Sept. 8	940	238	32	1196
Back-band hook	H. C. Johnson and J. B. Moore	330,900	Nov. 24	1957	530	33	901
Back-band loop	J. P. Hamilton	314,829	Mar. 31	2438	644	30	1281
Backing, plowing, and gliding press. Combined	T. Freeman	323,313	July 28	2607	693	32	497
Bag.							
See Exercising-bag. Mail-bag.							
Fred-bag. Paper bag.							
Hand-bag.							
Bag	E. W. Haaf	327,255	Sept. 29	2754	715	32	1547
Bag	J. Maddock	326,665	Sept. 22	1922	505	32	1391
Bag and pocket-book fastener	C. Blust	320,427	June 16	2034	534	31	1432
Bag and satchel frame spring.	R. C. Jenkinson	331,505	July 7	137	34	32	25
Bag-fastener	S. J. Austin and E. J. Stone	324,913	Aug. 25	2064	565	32	929
Bag fastener	J. Menahan	320,192	Oct. 27	2271	588	33	44
Bag-fastener	H. Shank	319,516	June 9	745	199	31	1194
Bag-fastener	W. F. Wineberger	331,357	Dec. 1	139	35	33	1023
Bag filler, weigher, and register. Grain.	L. P. Summers	330,856	Nov. 17	1899	514	33	892
Bag filling, weighing, and registering machine	J. R. Campbell	321,793	July 7	521	138	32	97
Bag-holder	J. S. Bralley	332,326	Dec. 15	1460	376	33	1271

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Bag-holder	W. B. Emmons	314,571	Mar. 31	2078	555	30	1215
Bag-holder	A. R. Hill	317,356	May 5	579	149	31	629
Bag-holder	I. B. Jennings	318,624	May 26	2270	606	31	965
Bag-holder	L. Liedel	310,910	Jan. 6	65	17	30	15
Bag-holder	J. E. Parker	313,515	Mar. 10	661	179	30	908
Bag-holder	G. W. Wentz	313,902	Mar. 17	1184	368	30	1014
Bag-holder	M. Williams	317,908	May 19	1310	350	31	772
Bag-holder	J. L. Worrell	323,617	Aug. 4	306	89	32	580
Bag-holder	W. Yerdon	314,770	Mar. 31	2360	625	30	1267
Bag holder and lifter	J. A. Hamsch	315,778	Apr. 14	1117	293	31	249
Bag-holder and trucks	C. Hatz	323,141	July 28	2355	625	32	453
Bag-holder for trucks	W. S. and J. W. Yothers	327,750	Oct. 6	323	63	33	57
Bag-holder, scale, and truck. Combined	J. Dollison and J. Long	324,668	Aug. 18	1728	476	32	859
Bag-lock	D. P. Brophy	331,473	Dec. 1	312	84	33	1053
Bag-lock	A. Goertz	310,413	Jan. 6	320	90	30	64
Bag or satchel	C. W. Jenks	314,678	Mar. 31	2213	568	30	1239
Bag or satchel	M. Schwerin	325,978	Sept. 6	1005	256	32	1308
Bag or satchel handle	W. Römer	314,724	Mar. 31	2275	604	30	1250
Bag, pocket-book, and purse frames. Fastening for	C. S. Shepard	319,632	June 9	901	238	31	1223
Bag, pocket-book, or purse frame	L. B. Prahar	314,345	Mar. 24	1772	472	30	1132
Bag, pocket-book, or purse frames. Fastening for	L. B. Prahar	310,173	Apr. 21	1657	434	31	314
Bag-rack	R. E. Williams	315,688	Apr. 14	984	258	31	183
Bags, &c. Compound material suitable for the manufacture of lined coffee and sugar	T. Briggs	315,385	Apr. 7	547		31	99
Bags, &c. Holder for	A. N. Barnes	322,408	July 21	1344	350	32	261
Bacasse to pulp to extract the saccharine matter therefrom. Machine for reducing	S. C. Meyer	313,510	Mar. 10	652	169	30	907
Baggage-elevator	I. S. Banta	329,695	Nov. 3	362	92	33	574
Bail-lock. Automatic	G. B. Ballou	330,816	Nov. 17	1845	497	33	873
Bait. Artificial	F. C. P. Robinson	326,886	Sept. 22	2263	591	32	1451
Bait. Trolling	W. D. Chapman	323,111	July 28	2322	615	32	446
Bakeries. Mixing-machine for	G. H. Ives	325,933	Sept. 8	942	239	32	1197
Baking apparatus	E. Jaeger	333,229	Dec. 29	2861	748	33	1535
Baking pan and cover	T. Maves	313,092	Mar. 3	70	19	30	790
Baking-pan. Rectangular	S. J. Williams and H. Richey	318,438	May 19	2018	543	31	911
Baking-powder	G. A. Marsh	328,419	Oct. 13	1199		33	227
Baking-powder	A. McDonald	317,821	May 19	1198		31	751
Baking-powder	A. Peters	315,830	Apr. 14	1181		31	221
Baking-powder	A. Peters	315,832	Apr. 14	1183		31	221
Baking-powder	A. Peters	331,541	Dec. 1	404		33	1071
Baking-powder	A. Peters	331,542	Dec. 1	405		33	1071
Baking-powder. Lactate	H. G. Underwood	328,364	Oct. 13	1112		33	211
Baking-powder. Phosphate	A. Peters	315,831	Apr. 14	1182		31	221
Balanco	A. Springer	310,515	Jan. 6	496	137	30	95
Balance	A. Springer and F. A. Roeder	310,471	Jan. 6	390	108	30	75
Balance. Proportional	G. M. Board	324,638	Aug. 18	1690	466	32	852
Balance. Torsional-pivot	F. A. Roeder and A. Springer	310,542	Jan. 6	491	136	30	94
Balcony and fire-escape combined	C. Monjeau	313,511	Mar. 10	653	179	30	907
Bale and package tie	I. N. Hopkins	312,637	Feb. 24	1611	443	30	673
Bale and package tie	I. N. Hopkins	326,563	Sept. 28	1781	467	32	1367
Bale-band. Adjustable	G. Nicholson	313,014	Feb. 24	2115	576	30	763
Bale-band tightener	S. L. Carpenter	312,704	Feb. 24	1699	467	30	688
Bale heading and lifting attachment for presses	S. B. Steers	320,719	June 23	2416	640	31	1513
Bale-tie	W. Brockner	311,226	Jan. 27	1427	389	30	283
Bale-tie	W. Brockner	311,227	Jan. 27	1427	389	30	283
Bale-tie	S. L. Carpenter	328,013	Oct. 27	2019	524	33	289
Bale-tie	L. E. Evans	310,502	Jan. 6	431	119	30	84
Bale-tie	F. B. Griswold	322,442	July 21	1383	365	32	270
Bale-tie	J. A. Tippit	314,753	Mar. 31	2308	613	30	1257
Bale-tie	C. C. Warren	320,420	June 16	2025	532	31	1431
Bale-tie. Adjustable	G. S. Ackley	324,348	Aug. 18	1281	351	32	779
Bale-tie machine	L. Cook	312,821	Feb. 24	1856	509	30	716
Bale-tie. Wire	P. Benjamin	311,222	Jan. 27	1422	387	30	282
Bale-tie. Wire	G. Nicholson	315,821	Apr. 14	1171	306	31	220
Baling-press	W. T. Anderson	310,357	Jan. 6	965	73	30	51
Baling-press	A. M. Braisher	316,732	Apr. 28	2431	632	31	459
Baling-press	J. E. Chidester	316,234	Apr. 21	1731	454	31	327
Baling-press	F. S. Clark and J. A. Bachman	331,035	Nov. 24	2125	576	33	933
Baling-press	P. K. Dederick	324,924	Aug. 25	2078	568	32	932
Baling-press	P. K. Dederick	330,877	Nov. 24	1928	523	33	896
Baling-press	M. H. Durst	331,873	Dec. 8	929	240	33	1172
Baling-press	E. E. Fuller	318,460	May 26	2046	562	31	926
Baling-press	W. Gardner	331,049	Nov. 24	2141	580	33	936
Baling-press	L. B. Lathrop	325,843	Sept. 8	830	211	32	1176
Baling-press	J. B. Miller	326,579	Sept. 22	1799	472	32	1370
Baling-press	W. J. Perkins	315,062	Apr. 7	108	25	31	21
Baling-press	W. W. Post	332,557	Dec. 15	1913	500	33	1351
Baling-press	A. S. Robinson	311,680	Feb. 3	286	79, 20	30	403
Baling-press	W. W. Seeley	332,291	Dec. 15	1536	402	33	1287
Baling-press	W. W. Seeley	332,292	Dec. 15	1537	403	33	1287
Baling-press	J. R. and W. D. Slanson	315,850	Apr. 14	1208	315	31	226
Baling-press	W. D. Slanson	315,965	Apr. 14	1377	356	31	254
Baling-press	W. D. Slanson	315,966	Apr. 14	1378	356	31	255
Baling-press	C. Smith	322,651	July 21	1671	443	32	319
Baling-press	G. W. Smith	312,915	Feb. 24	1975	540	30	777

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Baling-press	W. F. Smith and W. W. Adams	311,366	Jan. 27	1481	{ 405 406	30	293
Baling-press	C. M. Stone	313,551	Mar. 10	701	{ 183 184	30	917
Baling-press	T. M. Workman	331,932	Dec. 8	1022	{ 265 266	33	1190
Baling-press alarm attachment	J. L. Hall	322,926	July 28	2056	543	32	397
Baling-press bale-ejector	J. L. Duval	314,523	Mar. 24	2010	536	30	1175
Baling-press power	W. D. Slauson	310,858	June 9	1209	319	31	1277
Baling-press. Upright-beater	J. J. Platt	315,960	Apr. 14	1368	334	31	253
Ball:							
See Rubber ball.							
Ball-trap	J. E. Bloom	313,804	Mar. 10	1043	264	30	979
Ball-trap	F. C. Damm	317,521	May 12	806	207	31	677
Ball-trap	P. Marqua	313,220	Mar. 3	263	66	30	825
Balls. Machine for making	W. Hillman	332,301	Dec. 29	2961	{ 773 774 775	33	1554
Balls. Machine for roll-finishing seamless	A. Blabee and J. T. Bacon	322,343	July 14	1253	327	32	238
Balloon-guiding apparatus	C. E. and C. Myers	318,575	May 26	2215	592	31	954
Balloons. Portable gas-generator for filling	C. E. Myers	320,885	June 23	2621	694	31	1572
Ballot-box	W. P. Furnell	310,506	Jan. 6	435	120	30	84
Ballot-box	J. H. Lasky	320,803	June 23	2517	667	31	1332
Ballot-box	W. H. Munroe and T. C. Sullivan	311,512	Feb. 3	70	21, 22	30	362
Ballot-box. Registering and canceling	J. B. Benton	327,644	Oct. 6	191	47, 48	33	35
Ballot-box. Registering and canceling	J. B. Benton	327,645	Oct. 6	196	48, 49	33	35
Ballot-box. Registering and canceling	S. J. Howell	332,398	Dec. 15	1685	{ 441 442	33	1313
Ballot-box. Registering and canceling	W. H. Munroe and T. C. Sullivan	333,145	Dec. 29	2742	{ 720 721	33	1514
Baluster	J. W. Ferer	310,807	Jan. 13	827	924	30	162
Band-cutter and feeder	H. K. Andrews	325,922	Aug. 25	2469	679	32	1004
Band for strapping boxes, &c	G. Nicholson	322,356	Dec. 15	1633	428	33	1304
Band or collar	W. Gray	325,672	Sept. 8	607	154	32	1135
Band or cord. Endless	L. Binns	330,087	Nov. 10	908	225	33	634
Bandage. Suspensory	E. G. Winchester	321,072	June 30	2287	768	31	1606
Bangle for jewelry	C. Goshir	328,583	Oct. 20	1411	367	33	973
Banjo	A. C. Fairbanks	327,779	Oct. 6	357	92	33	63
Banjo	H. E. Forrest	325,067	Aug. 25	2268	693	32	968
Banjo	S. Gibbs	312,457	Feb. 17	1370	378	30	619
Banjo	J. H. Howe	314,325	Mar. 24	1705	453	30	1189
Banjo	C. J. Kelly	332,538	Dec. 15	1888	493	33	1347
Banjo	W. B. Lomas	313,352	Mar. 3	445	113	30	839
Banjo	J. Malberger	324,569	Aug. 18	1579	435	32	632
Banjo	F. J. Miller	310,906	Jan. 20	964	860	30	191
Banjo	G. Teed	313,384	Mar. 3	494	127	30	866
Banjo	G. A. Washburn	316,508	Apr. 28	2115	556	31	401
Banjo-modulator	J. B. Howe	312,638	Feb. 24	1612	443	30	673
Banjos. Peg-supporting device for	A. C. Fairbanks and W. A. Cole	322,054	July 14	887	230	32	169
Bar:							
See Chain-bar. Horseshoe-bar.							
Clothes-bar. Locomotive draw-bar.							
Composite bar. Metal bar.							
Culm-bar. Plater's bar.							
Draw-bar. Post and stake bar.							
Grate-bar. Splice-bar.							
Bar-bending machine	A. Urbahn	313,134	Mar. 3	124	30, 31	30	800
Bars. Machine for bending the ends of	A. Andersen	312,547	Feb. 17	1499	409	30	642
Barbed strips. Die for making	A. P. Thayer	310,632	Jan. 13	591	163	30	119
Barber's chair	H. Geise	323,661	Aug. 4	370	105	32	591
Barber's chair	F. Hoffmann and C. Ferst	326,503	Sept. 15	1700	444	32	1344
Barber's chair	E. E. Koken	323,420	Aug. 4	58	15	32	533
Barbers' chairs. Head-rest for	T. W. Patterson	315,540	Apr. 14	792	209	31	147
Barbers' chairs. Head-rest for	T. W. Patterson	328,337	Oct. 13	1073	279	33	204
Barber's comb	J. W. Smith and C. L. Holland	323,889	Aug. 4	653	184	32	646
Barbers' turn-indicator	W. J. and J. Holt	318,622	May 26	2368	605	31	964
Barium and of strontium. Making hydrates of	W. G. Strive	326,066	Sept. 8	1127	287	32	1220
Barb-cutting	J. C. Hagerly	332,797	Dec. 22	2250	593	33	1180
Barb-cutting machine	J. C. Hagerly	332,796	Dec. 22	2249	593	33	1420
Barb-mill	J. McKendrick	325,849	Sept. 8	848	213	32	1178
Bark-mill	W. A. Woods	329,113	Oct. 27	2161	{ 559 560	33	414
Bark-mill	W. A. Woods	329,114	Oct. 27	2162	560	33	414
Bark-mill	W. A. Woods	329,854	Dec. 22	2321	615	33	1433
Bark-press	J. Daigneau	322,087	July 21	1714	454	32	322
Barometer	J. Y. McCleary	328,501	Oct. 20	1296	337	33	273
Barrel	A. C. Carey	312,967	Feb. 24	2041	557	30	749
Barrel	J. Cosgrove	322,010	July 28	2032	537	32	392
Barrel	P. R. Gottstein	318,370	May 19	1929	530	31	895
Barrel	S. H. Raymond	331,911	Dec. 8	988	256	33	1163
Barrel attachment. Flour	J. R. Payson, Jr.	332,105	Dec. 8	1280	332	33	1235
Barrel-connection	T. O'Brien	321,520	July 7	159	43	32	31
Barrel-cover holder	S. E. Vincent	326,177	Sept. 15	1281	330	32	1965
Barrel-eroding and howeling machine	G. J. Miller	326,234	Sept. 15	1355	350	32	1719
Barrel-drying machine	G. Miller	312,002	Feb. 10	736	201	30	492
Barrel-elevator	L. Pontz	319,110	June 2	231	60, 61	31	1080
Barrel-filler	J. McKenzie	323,708	Aug. 4	423	191	32	603
Barrel-filler. Automatic	C. Ward	328,827	Oct. 30	1730	470	33	321
Barrel filling and heading apparatus	A. C. Carey	312,066	Feb. 24	2042	557	30	749
Barrel. Folding	G. F. Knapp	312,475	Feb. 17	1306	325	30	623
Barrel-heading machine	J. Mulvaney	320,150	June 16	1625	433	31	1359
Barrel-heading machine	F. Myers	323,065	Oct. 27	1738	505	33	373
Barrel-heads. Metallic cover for	A. M. Hellman	325,930	Sept. 8	940	278	32	1196
Barrel, keg, or similar article	L. M. Reed	322,641	July 21	1657	438	32	317

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Barrel-machine	T. W. McGregor	318,480	May 26	2082	562	31	932
Barrel-making machine	F. Andrew	323,253	July 28	2514	667	32	481
Barrel-making machine	G. A. Freidel and J. D. Clough	314,926	Mar. 31	2569	679	30	1394
Barrel-making machine	D. Murray	322,560	July 23	2104	560	32	406
Barrel-making machine	F. Myers	315,434	Apr. 7	622	561	31	111
Barrel-making machine	L. M. Reed	323,808	Oct. 20	1704	443	33	326
Barrel. Metallic	J. D. Moran	326,669	Sept. 22	1936	577	32	1392
Barrel or cask. Metal	J. Graves	327,254	Sept. 29	2733	714	32	1546
Barrel-press	W. R. Hallett	316,030	Apr. 21	1457	360	31	277
Barrel-stand	H. Heilbronner and H. A. Rosback	317,133	May 5	271	68	31	513
Barrel-stand	I. G. Pollard	318,392	May 19	1961	523	31	961
Barrel-sustaining apparatus	J. D. Westrate	329,524	Nov. 3	140	33	33	531
Barrel-swing	P. A. Potter	310,539	Jan. 6	431	135	30	173
Barrel. Transportation	R. H. Kachline	314,181	Mar. 31	2215	583	30	1239
Barrel-washing machine	H. Nadorff	329,647	Nov. 3	574	140	33	612
Barrels after being pitched. Machine for rolling	F. N. Rubin	327,179	Sept. 27	2664	692	32	1529
Barrels. Machine for hooping	E. A. Pelano	323,565	Aug. 4	240	70, 11	32	566
Barrels. Manufacture of	G. S. Long	321,079	Oct. 27	2082	541	33	400
Base-ball or cricket field indicator	W. Williams	311,978	Jan. 27	1510	412	30	998
Basin and trap. Wash	W. L. De Wolf	331,947	Dec. 8	1042	270	33	1105
Basin holder and attachment. Wash	E. Baumann	327,901	Oct. 13	620	166	33	121
Basin or similar vessel. Wash	E. A. Stearns	323,374	Oct. 13	1093	224	33	208
Basin or tub	C. A. Blessing	331,204	Nov. 10	1750	274	33	713
Basin. Set	J. P. Putnam	329,536	Nov. 10	710	132	33	644
Basin, &c. Wash	W. J. Cahill	323,911	Aug. 11	686	192	32	650
Basket	R. S. Bartlett	313,010	Mar. 17	1196	311	30	1016
Basket	A. M. Froeman	319,088	June 2	191	50	31	1023
Basket	H. P. Gross	326,499	Sept. 15	1697	443	32	1343
Basket	W. M. Hamilton	317,454	May 5	717	120	31	653
Basket	W. M. Hamilton	317,455	May 5	718	121	31	653
Basket	T. F. Lawson	323,751	Sept. 8	725	121	32	1156
Basket	E. L. Maccel	320,266	June 16	1761	468	31	1324
Basket and skip	J. P. Milbourne and T. Humphreys	332,407	Dec. 15	1698	445	33	1315
Basket cover. Fruit	J. W. Leslie	313,873	Mar. 17	1145	298	30	1606
Basket cover. Fruit	R. Stevens	311,211	Jan. 27	1397	382	30	277
Basket. Folding	E. Kilborn	323,339	July 28	2643	703	32	504
Basket. Fruit	I. S. Platt	323,527	Aug. 4	129	55	32	557
Basket. Wire	W. B. Nisbee	318,021	May 19	1548	415	31	824
Basket. Wire	W. H. Elliott	312,101	Feb. 10	866	237	30	517
Baskets, &c. Splint for	S. Friend	312,197	Feb. 10	1009	275	30	542
Bas. Base-ball	W. T. Brown	310,248	Jan. 6	109	31	30	23
Bath:							
See Blotter-bath. Vapor-bath.							
Bath	G. Booth	324,293	Aug. 11	1210	329	32	756
Bath	J. H. Crocker	333,200	Dec. 29	2818	737	33	1527
Bath and wash tub combined	W. P. Austin	331,271	Dec. 1	3	1	33	1001
Bath-house. Portable	C. L. Linney	327,284	Sept. 29	2789	725	32	1552
Bath-stand. Folding	C. C. Barnwell	316,394	Apr. 21	1848	428	31	348
Bath-tub	F. J. Torrance	327,973	Oct. 6	107	152	33	109
Bath-tub	A. M. Waterworth	310,344	Jan. 6	251	69	30	48
Bath-tub-basin attachment	J. and W. J. Robinson	315,312	Apr. 7	491	124	31	90
Bath-tub. Folding	J. A. Throckmorton	314,752	Mar. 31	2307	613	30	1257
Bath-tub. Portable	H. R. Allen	320,037	June 16	1462	384	31	1330
Bath-tub. Portable	C. A. Hayward	321,217	June 30	3066	813	31	1639
Bath-tub stand-pipe attachment	W. A. Johnson	327,272	Sept. 29	2773	720	32	1549
Bath-tubs. Apparatus for heating water in	G. Hayes	317,940	May 12	1340	363	31	790
Bath-tubs. Overflow-pipe for	S. G. McFarland	327,295	Sept. 29	2205	730	32	1555
Baths. Device for administering	D. Lester	318,760	May 26	2473	657	31	999
Baths. Overflow and discharge valve for	J. Demarest	324,542	Aug. 18	1545	426	32	825
Bathing apparatus	V. A. Harder	324,686	Aug. 18	1754	483	32	864
Bathing-cabinet	L. Yancey	322,628	Oct. 20	1487	377	33	225
Bathing-garment	S. Ashner	313,845	Mar. 17	1166	267	30	999
Bathing-garment	M. J. Beers	310,171	Jan. 6	13	4	30	5
Bathing-suit	J. J. Pfister	312,133	May 19	1615	431	31	837
Batteries. Automatic cut-off for	L. Soulliere	319,635	June 9	907	240	31	1224
Battery:							
See Electric battery. Primary or galvanic bat-							
Electro-medical bat-							
tery. Secondary battery.							
Galvanic battery. Secondary or storage bat-							
Medical battery. tery.							
Primary and second- Thermo-electric battery.							
ary battery. Voltaic battery.							
Battery-fluid	I. L. Roberts	317,908	May 5	383	...	31	593
Beader. Hand	O. E. Williams and L. V. Poole	319,161	June 2	278	73	31	1098
Beading-tool	E. P. Kendall and A. S. Vose	326,435	Sept. 15	1622	421	32	1329
Beadings or moldings. Tool for making	L. V. Poole and O. E. Williams	313,617	Mar. 10	780	297	30	933
Beam-heads upon beam-barrels. Securing	I. E. Palmer	321,635	July 7	304	81	32	58
Beam, joint, &c	W. W. Martin	320,079	June 16	1521	473	31	1342
Beam. Tubular	J. H. Jones	327,949	Oct. 6	574	149	33	103
Beams and girders. Cutting and employing wooden	P. H. Jackson	323,424	Aug. 4	52	14	32	632
Bearing and bush	S. M. Gnee	317,993	May 19	1422	324	31	893
Bearing. Anti-friction	H. S. Bailey	322,176	Oct. 13	873	227	33	165

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Bearing. Anti-friction	J. E. Evans	316,348	Apr. 21	1877	497	31	332
Bearing. Anti-friction	T. R. Ferrall	323,304	Oct. 13	1161	300	33	210
Bearing. Anti-friction	J. Flannery	316,026	Apr. 21	1454	379	31	277
Bearing. Anti-friction	J. M. Keleher	317,652	May 12	973	251	31	708
Bearing. Anti-friction	D. J. Powers	313,022	Feb. 24	2126	579	32	764
Bearing. Anti-friction	T. Tripp	315,356	Apr. 7	511	131	31	93
Bearing. Anti-frictional	T. R. Ferrall	321,350	June 30	3229	860	31	1670
Bearing. Anti-frictional	T. R. Ferrall	321,351	June 30	3230	861	31	1670
Bearing. Ball	J. M. Marlin	331,899	Dec. 8	968	250	33	1179
Bearing-boxes. Machine for applying Babbitt-metal linings to	N. Shaw	314,614	Mar. 31	2126	567	30	1224
Bearing for machinery. Step	H. G. Hubert	314,676	Mar. 31	2210	587	30	1238
Bearing for shafting	J. A. Powers and C. M. Ball	314,475	Mar. 24	1048	519	30	1165
Bearing. Friction	G. W. Shoemaker	311,925	Feb. 10	623	172	30	472
Bearing. Roller	H. H. Clay and M. D. Philleo	310,383	Jan. 6	297	82	30	57
Beating out welts. Machine for	A. F. Littlefield	220,075	June 16	1516	402	31	1340
Bed	H. S. Cook	310,255	Jan. 6	126	36	30	26
Bed	J. P. Moore	318,282	May 19	1803	482	31	873
Bed	W. Wall	330,447	Nov. 17	1381	368	33	783
Bed. Alarm and waking	A. J. Nordmann	325,437	Sept. 1	301	73	32	1073
Bed and bedstead	A. Smith and G. H. Albers	327,302	Sept. 29	2688	696	32	1535
Bed and chair. Combined sofa	G. Koenig, Jr.	321,825	July 7	578	150	32	106
Bed-bottom	T. C. Bentley	316,227	Apr. 21	1721	452	31	325
Bed-bottom	W. F. Bernstein	319,178	June 2	295	79	31	1102
Bed-bottom	C. Bignon	326,096	Sept. 15	1164	298	32	1244
Bed-bottom	J. H. Brown	322,577	July 21	1562	417	32	303
Bed-bottom	W. Bulkley and R. C. Browning	317,922	May 12	1329	357	31	776
Bed-bottom	B. B. Mitchell	328,241	Oct. 13	951	247	33	181
Bed-bottom	D. F. S. Ambaugh	327,611	Oct. 6	145	34	33	27
Bed-bottom. Adjustable spring	M. N. Lovell	318,381	May 19	1946	525	31	898
Bed-bottom. Bolster	W. I. Fielding	323,572	Aug. 4	247	73	32	568
Bed-bottom. Folding	J. Ainslie, Jr.	326,375	Sept. 15	1550	403	32	1316
Bed-bottom. Folding spring	J. Ainslie, Jr.	320,322	June 16	1878	493	31	1403
Bed-bottom frames. Machine for attaching fabrics to	A. H. Frost and F. L. Bryant	319,476	June 9	686	184	31	1185
Bed-bottom. Spring	J., Jr., and A. K. M. Ainslie	332,471	Dec. 15	1779	466	33	1399
Bed-bottom. Spring	J. Alexander	320,832	June 23	2551	676	31	1539
Bed-bottom. Spring	E. E. Bailey and M. E. Buckingham	329,876	Nov. 10	621	158	33	628
Bed-bottom. Spring	L. W. Boynton	321,419	July 7	7	2	32	4
Bed-bottom. Spring	J. F. Bunnell	327,432	Sept. 29	2686	780	32	1567
Bed-bottom. Spring	S. S. Burr	316,444	Apr. 28	2036	534	31	386
Bed-bottom. Spring	S. S. Burr	330,293	Nov. 10	1163	310	33	735
Bed-bottom. Spring	C. Carleton	314,427	Mar. 24	1872	490	30	1152
Bed-bottom. Spring	J. R. Deihm	320,765	June 23	2173	655	31	1594
Bed-bottom. Spring	T. Flavel	323,209	July 23	2001	692	32	496
Bed-bottom. Spring	J. M. M. Gernerdt	326,555	Sept. 22	1719	463	32	1365
Bed-bottom. Spring	L. A. Heller	328,117	Oct. 13	797	208	33	151
Bed-bottom. Spring	E. E. McIntyre	330,249	Nov. 10	1103	292	33	723
Bed-bottom. Spring	P. H. Mellon	331,645	Dec. 1	603	147	33	1103
Bed-bottom. Spring	A. F. Purofoy	323,252	Dec. 29	2 93	7 7	33	1542
Bed-bottom. Spring	H. Quald	328,750	Dec. 22	2106	579	33	1410
Bed-bottoms. Covering for spring	A. S. Clark	322,162	July 14	1032	268	32	196
Bed bug trap and caster. Combined	H. S. Doeh	317,322	May 5	536	136	31	621
Bed. Bureau	A. Kulich	326,695	Oct. 20	1820	474	33	347
Bed. Cabinet	S. E. Goode	322,177	July 14	1040	272	32	199
Bed-clothes clamp	F. M. Conner	319,563	June 9	805	214	31	1205
Bed-clothes clamp	B. Kiam	318,914	May 26	2601	705	31	1035
Bed-clothing clamp or fastener	C. G. Harger, Jr.	330,833	Nov. 17	1863	503	33	876
Bed-clothing. Device for elevating and suspending	A. W. Bolaker	322,265	July 23	2524	670	32	423
Bed. Cot	G. E. Bedell	319,055	June 2	149	41	31	1075
Bed. Cot	O. C. Fisk	322,055	July 14	888	220	32	169
Bed. Cot	A. H. Frost and F. L. Bryant	329,384	Oct. 27	2557	659	33	466
Bed. Cot	W. H. Moore	316,383	Apr. 21	1929	509	31	361
Bed-cover fastener	M. J. Liggett	331,308	Dec. 1	70	17	33	1012
Bed. Double	H. S. Simpson	327,829	Oct. 6	424	110	33	74
Bed. Extension	H. B. Pritchard	320,918	Sept. 22	2306	604	32	1459
Bed. Folding	S. H. Bingham	321,572	July 7	226	60	32	44
Bed. Folding	L. C. Boyington	320,837	June 23	2555	677	31	1540
Bed. Folding	S. S. Bradshaw	327,760	Oct. 6	333	86	33	50
Bed. Folding	A. S. Burnham	324,748	Aug. 18	1826	505	32	879
Bed. Folding	E. N. Doring	328,200	Oct. 13	899	233	33	171
Bed. Folding	B. F. Farrar	319,083	June 2	186	49	31	1082
Bed. Folding	B. F. Farrar	327,076	Sept. 29	2513	655	32	1503
Bed. Folding	B. F. Farrar	327,077	Sept. 29	2514	656	32	1503
Bed. Folding	C. Fenton	323,800	Aug. 4	539	133	32	624
Bed. Folding	T. P. Glody	312,625	Feb. 24	1593	436	30	669
Bed. Folding	H. S. Halo	330,693	Nov. 17	1666	455	33	844
Bed. Folding	J. C. Horn and C. F. Hopf	317,361	May 5	584	151	31	630
Bed. Folding	T. P. Marston	328,698	Oct. 20	1574	410	33	301
Bed. Folding	G. A. Nelson	319,608	June 9	876	231	31	1218
Bed. Folding	J. R. Payson, Jr.	329,942	Nov. 10	704	180	33	643
Bed. Folding	D. J. Powers. (Reissue)	10,606	June 2	626	162	31	1167
Bed. Folding	D. J. Powers	321,911	July 7	686	178	32	124
Bed. Folding	D. J. Powers	321,912	July 7	667	179	32	125
Bed. Folding	L. P. Ross	318,806	May 26	2519	672	31	1009
Bed. Folding	W. T. Salter	325,974	Sept. 8	998	254	32	1207
Bed. Folding	F. Schray	320,228	June 10	1820	483	31	1383

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Bed. Folding.....	G. L. Slater and W. A. Eaton.....	332,956	Dec. 22	2465	652	33	1461
Bed. Folding.....	F. B. Williams.....	316,714	Apr. 28	2401	626	31	455
Bed. Folding.....	H. and E. Williams.....	326,367	Sept. 15	1544	400	32	1315
Bed. Folding cabinet.....	F. Schray.....	319,135	June 2	249	65	31	1093
Bed. Folding couch.....	R. E. Hammer.....	330,479	Nov. 17	1424	320	33	792
Bed frame. Spring.....	G. E. Bedell.....	315,998	Apr. 21	1420	369	31	270
Bed. Invalid.....	S. Bishop.....	331,608	Dec. 1	545	133	33	1093
Bed. Invalid.....	I. D. Johnson.....	325,000	Aug. 25	2185	598	32	951
Bed. Invalid.....	C. Olsen.....	318,199	May 19	1099	455	31	853
Bed. Invalid.....	H. Pistorius.....	321,754	July 7	466	123	32	87
Bed-lounge.....	O. and M. Alexander.....	325,597	Sept. 8	899	226	32	1189
Bed-lounge.....	R. H. Bryant.....	320,623	June 23	2302	607	31	1490
Bed-lounge.....	E. Burgess.....	312,327	Feb. 17	1192	320	30	525
Bed-lounge.....	H. Elm.....	319,210	June 2	329	89	31	1109
Bed-lounge.....	G. E. Krause.....	325,344	Sept. 1	150	41	32	1043
Bed-lounge.....	A. Kulich.....	328,894	Oct. 20	1819	474	33	347
Bed-lounge.....	W. Reddell.....	333,424	Dec. 29	3120	814	33	1561
Bed. Mantel.....	J. H. Laakey.....	314,032	Mar. 17	1339	354	30	1047
Bed or bed-bottom. Spring.....	E. A. and F. M. Jeffery.....	332,081	Dec. 8	1239	323	33	1228
Bed or bed-bottom. Spring.....	E. A. and F. M. Jeffery.....	332,082	Dec. 8	1243	324	33	1228
Bed or cot. Folding.....	C. T. Segar.....	316,298	Apr. 21	1816	478	31	342
Bed or furniture spring connection.....	A. Bell.....	323,555	Aug. 4	229	67	32	564
Bed-pan.....	S. V. Deal.....	330,548	Nov. 17	1505	402	33	807
Bed-pan.....	C. C. Thompson.....	322,503	July 21	1488	391	32	226
Bed-protector.....	W. Robinson.....	319,623	June 9	891	230	31	1221
Bed-rail brace.....	J. Adams.....	326,618	Sept. 22	1863	428	32	1320
Bed-rail fastener.....	A. Schnell.....	332,442	Dec. 15	1746	456	33	1323
Bed-screen frame.....	G. D. Marsh.....	326,437	Sept. 15	1624	425	32	1329
Bed-slat fastener. Wire.....	S. D. Hollister.....	325,082	Aug. 25	2228	629	32	971
Bed-slat support.....	F. G. Ford.....	315,288	Apr. 7	398	99	31	73
Bed-sofa.....	B. Kreith.....	316,901	Apr. 28	2672	696	31	505
Bed-sofa.....	W. Reddell.....	314,066	Mar. 31	2118	545	30	1222
Bed. Sofa.....	F. Fischbeck.....	320,543	Nov. 3	167	44	33	577
Bed. Sofa.....	C. F. Glaggen.....	322,176	July 14	1047	271	32	199
Bed. Sofa.....	T. Hofstatter, Jr.....	331,706	Dec. 1	694	171	33	1121
Bed. Sofa.....	C. A. Lindner.....	332,412	Dec. 15	1707	447	33	1316
Bed. Sofa.....	J. Loebig.....	321,305	June 30	3171	845	31	1659
Bed. Sofa.....	J. B. Okey.....	324,523	Aug. 18	1599	440	32	836
Bed. Sofa.....	W. Ott.....	320,676	June 23	2366	625	31	1502
Bed. Sofa.....	F. Ringemann.....	314,879	Mar. 31	2503	664	30	1284
Bed. Sofa.....	G. W. Robbins.....	322,043	July 21	1660	439	32	317
Bed. Sofa.....	A. Schrock.....	324,490	Aug. 18	1475	404	32	812
Bed. Sofa.....	A. Schrock.....	332,010	Dec. 8	1128	295	33	1209
Bed. Sofa.....	W. R. Shaber.....	321,540	July 7	1-7	50	32	37
Bed. Sofa.....	W. J. Shaw.....	327,605	Oct. 6	135	32	33	26
Bed. Sofa.....	C. Streit.....	312,927	Feb. 24	1991	544	30	740
Bed. Sofa.....	C. Streit.....	330,855	Nov. 17	1897	513	33	892
Bed. Sofa.....	E. Yeoman.....	324,205	Aug. 11	1099	296	32	735
Bed-spring.....	W. W. Bartlett.....	329,121	Oct. 27	2173	562	33	416
Bed-spring.....	C. R. Davis.....	318,092	May 19	1562	419	31	826
Bed-spring.....	J. P. Leggett.....	318,758	May 26	2451	656	31	998
Bed-spring.....	L. M. Prowse.....	315,546	Apr. 14	802	212	31	149
Bed. Spring.....	J. F. Durr.....	333,116	Dec. 29	2705	709	33	1508
Bed. Spring.....	T. H. Halliday.....	320,552	June 23	2303	522	31	1472
Bed. Spring.....	P. H. Mellon.....	331,422	Dec. 1	244	64	33	1041
Bed. Spring.....	P. H. Mellon.....	331,523	Dec. 1	378	102	33	1066
Bed. Spring.....	P. H. Mellon.....	311,929	Dec. 8	1102	286	33	1204
Bed. Spring.....	J. Newhouse.....	320,493	June 23	2123	560	31	1457
Bed. Spring.....	L. J. Van Delinder and A. W. Nash.....	333,363	Dec. 29	3041	794	33	1568
Bed. Spring.....	R. C. Young.....	331,599	Dec. 1	531	130	33	1091
Bed. Turn-up.....	L. W. Boynton.....	321,418	July 7	0	2	32	4
Bed. Wardrobe.....	J. C. Wirts and H. E. Scholle.....	322,680	July 21	1985	526	32	377
Bed and berth. Safety attachment for.....	J. C. McMurray.....	329,663	Nov. 3	318	82	33	565
Bed, &c. Spring-frame for.....	B. Taylor.....	318,210	May 19	1726	401	31	858
Bedstead.....	E. W. Blake.....	317,709	May 12	1044	271	31	721
Bedstead.....	G. Ball.....	318,351	May 19	1910	515	31	891
Bedstead.....	W. B. Clowers.....	330,672	Nov. 24	1923	621	33	895
Bedstead.....	G. Crowther.....	316,335	Apr. 21	1860	492	31	350
Bedstead.....	J. Garrard.....	320,925	June 30	2686	713	31	1569
Bedstead.....	J. M. Kirby and C. M. Littlejohn.....	317,376	May 5	605	155	31	63
Bedstead.....	A. F. Miller.....	321,742	July 7	443	117	32	83
Bedstead.....	M. O'Neill.....	312,007	Feb. 10	742	203	30	494
Bedstead. Adjustable.....	C. H. Mathiessen.....	327,039	Oct. 6	264	67	33	47
Bedstead. Adjustable double.....	A. T. Schlichting.....	322,645	July 21	1662	440	32	318
Bedstead and dressing-table. Combined.....	J. W. Jones.....	324,775	Aug. 18	1671	514	32	886
Bedstead attachment.....	J. W. Bowles.....	329,261	Oct. 27	2308	613	33	453
Bedstead-brace.....	J. W. Durham and W. B. Alexander.....	333,433	Dec. 29	3156	825	33	1587
Bedstead. Cabinet.....	S. S. Bradshaw.....	323,267	July 28	2527	671	32	484
Bedstead. Cabinet.....	E. S. Hall.....	328,214	Oct. 13	913	258	33	174
Bedstead-fastening.....	M. F. Raleigh.....	319,317	June 2	408	126	31	1137
Bedstead. Folding.....	L. C. Boyington.....	330,373	Nov. 17	1279	340	33	765
Bedstead. Folding.....	G. W. Delamater.....	327,246	Sept. 29	2742	712	32	1545
Bedstead. Folding.....	G. H. Kamacher.....	332,612	Dec. 15	1928	521	33	1365
Bedstead. Folding.....	W. D. Snyder.....	318,813	May 26	2528	675	31	1010
Bedstead. Folding.....	F. H. Tobias.....	329,101	Oct. 27	2142	554	33	410

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Bedstead. Folding.....	F. H. Walker.....	316,066	Apr. 21	1533	{ 400 401 }	{ 31 31 }	291
Bedstead for wire mattresses.....	T. S. Clark.....	328,762	Oct. 20	1649	430	33	316
Bedstead-frame.....	R. R. Pease.....	333,320	Dec. 29	2997	785	33	1561
Bedstead-guard.....	L. J. Shelley.....	321,649	July 7	321	85	39	61
Bedstead. Invalid.....	A. J. Goodwin.....	326,111	Sept. 15	1180	{ 301 302 }	{ 32 32 }	1247
Bedstead. Invalid.....	W. P. Underhill.....	325,993	Sept. 8	1025	261	32	1211
Bedstead slat-fastening.....	W. B. Abrams.....	320,741	June 23	2441	647	31	1518
Bedstead. Wardrobe.....	R. Mitchell.....	326,316	Sept. 15	1476	384	39	1302
Bedstead. Wardrobe.....	L. L. Richman.....	319,320	June 2	470	127	31	1137
Bedstead. Wardrobe.....	A. J. Warren.....	310,343	Jan. 6	250	68, 69	30	47
Bedstead. Wardrobe.....	L. W. Welch.....	311,623	Feb. 3	218	61	30	390
Bedstead. Wardrobe or folding.....	E. E. Everitt.....	332,144	Dec. 8	1340	{ 346 347 }	{ 33 33 }	1244
Bee-cabinet.....	P. Koch.....	319,979	June 16	1388	365	31	1317
Bee-hive.....	E. Armstrong.....	330,365	Nov. 17	1271	337	33	763
Bee-hive.....	J. A. Coalter.....	324,657	Aug. 18	1714	472	32	856
Bee-hive.....	L. S. Cook.....	324,538	Aug. 18	1541	425	32	824
Bee-hive.....	R. H. Coons.....	326,068	Sept. 29	2501	653	39	1501
Bee-hive.....	H. S. Gideon.....	317,112	May 5	236	59	31	567
Bee-hive.....	W. Groff.....	330,783	Nov. 17	1603	486	33	865
Bee-hive.....	W. P. Hamlin.....	330,478	Nov. 17	1423	380	33	792
Bee-hive.....	J. Heddon.....	327,262	Sept. 29	2767	{ 718 719 }	{ 32 32 }	1549
Bee-hive.....	J. G. Hubbs.....	315,505	Apr. 14	729	193	31	136
Bee-hive.....	J. W. Martin.....	318,638	May 26	2226	{ 611 612 }	{ 31 31 }	968
Bee-hive.....	N. C. Mitchell.....	314,972	Mar. 31	2636	692	30	1315
Bee-hive.....	G. B. Olney.....	325,368	Sept. 1	48	14	32	1025
Bee-hive.....	J. J. Pearson.....	327,716	Oct. 6	2988	73	33	50
Bee-hive.....	S. Perkins.....	331,539	Dec. 1	401	108	33	1070
Bee-hive.....	J. T. Shank.....	322,982	July 28	2143	569	32	414
Bee-hive.....	W. H. Shirley.....	321,220	July 28	2471	657	32	474
Bee-hive.....	J. M. Shuck.....	329,341	Oct. 27	2490	642	33	475
Bee-hive.....	J. M. Shuck.....	323,168	Dec. 29	2774	727	32	1520
Bee-hive.....	G. L. Tinker.....	330,353	Nov. 10	1244	332	33	751
Bee-hive.....	W. K. Spray.....	311,273	Jan. 27	1497	408	30	296
Bee-hive attachment.....	N. C. Mitchell.....	325,988	Sept. 8	1015	259	32	1210
Bee-keeping.....	S. E. Ferguson.....	314,973	Mar. 31	2638	698	30	1315
Bee-swarmer and hive. Combined.....	A. Rein.....	316,349	Apr. 21	1877	497	31	353
Boat-tender.....	E. Wainwright.....	311,527	Feb. 3	95	28	30	367
Beer and other liquids. Apparatus for cooling.....	D. Boyle.....	325,996	Sept. 8	1028	262	32	1212
Beer. Apparatus for attempterating or cooling.....	W. H. Hayes.....	320,618	June 23	2294	605	31	1489
Beer, &c. Apparatus for cooling.....	H. Metzger.....	325,742	Sept. 8	714	178	32	1153
Beer. Apparatus for drawing.....	C. Müssel.....	331,424	Dec. 1	247	65	33	1043
Beer. Apparatus for filling kegs with.....	F. Widmer.....	328,554	Oct. 20	1372	357	33	265
Beer. Apparatus for preserving and pressing.....	A. W. Billings.....	324,523	Aug. 18	1525	{ 420 421 }	{ 32 32 }	821
Beer-cooler.....	C. J. Follett.....	328,396	Oct. 13	1163	300	33	220
Beer-cooler.....	J. Irlbacker.....	317,134	May 5	272	62, 69	31	573
Beer-cooler.....	J. Meyer.....	323,712	Aug. 4	429	123	32	603
Beer cooling and drawing apparatus.....	P. F. Gardner.....	332,508	Dec. 15	1832	481	33	1338
Beer cooling and preserving apparatus.....	F. Beisinger.....	315,699	Apr. 14	995	261	31	187
Beer-cooling apparatus.....	F. Widmer.....	325,692	Sept. 8	894	225	32	1187
Beer-drawing apparatus.....	J. A. Buttou.....	326,017	Sept. 8	1057	269	32	1217
Beer into siphons, &c. Apparatus to prevent frothing when filling.....	F. Heyman.....	322,719	July 21	1761	466	32	337
Beer into siphons, &c. Preventing frothing when filling.....	F. Heyman.....	322,720	July 21	1763	466	32	337
Beer-kegs. Apparatus for supplying and regulating the pressure of carbonic-acid gas in.....	L. Baumeister and C. A. Bartsch.....	322,410	July 21	1347	{ 350 351 }	{ 32 32 }	262
Beer. Making.....	L. Ernst.....	324,822	Aug. 25	1942	534	32	906
Beer. Manufacture of.....	J. Von Rosé.....	315,980	Apr. 14	1394		31	258
Beer or ale. Manufacturing.....	A. W. Billings.....	324,522	Aug. 18	1523	{ 419 420 }	{ 32 32 }	820
Beer-ventilator.....	J. H. Vehr and J. Kirby.....	327,040	Sept. 29	2469	{ 644 645 }	{ 32 32 }	1495
Beeswax-extractor.....	J. D. Enas.....	321,090	June 30	2911	774	31	1610
Bell attachment. Sleigh.....	W. E. Barton.....	312,070	Feb. 10	823	294	30	509
Bell. Automatic alarm.....	E. P. Forbee.....	331,697	Dec. 1	681	168	33	1118
Bell. Bicycle.....	R. G. Shute.....	310,620	Jan. 13	589	192	30	119
Bell. Bicycle.....	T. E. Ware.....	320,100	June 16	1547	409	31	1346
Bell. Call.....	E. S. Bloomfield, Jr.....	313,573	Mar. 10	729	191	30	922
Bell. Call.....	W. L. Upson.....	330,756	Nov. 17	1771	477	33	850
Bell circuit. Indicator for electric.....	W. A. Leipner and C. Brotherhood.....	322,619	July 21	1632	431	32	312
Bell. Door.....	C. D. Hughes.....	321,501	July 7	122	39	32	94
Bell. Electric.....	C. E. Kella, Jr.....	313,941	Mar. 17	1243	325	30	1025
Bell. Electric.....	A. H. Palmer.....	318,647	May 26	2302	615	31	971
Bell. Electric.....	H. B. Porter.....	320,685	June 23	2380	629	31	1505
Bell. Electric.....	E. F. Recordon.....	319,318	June 2	469	126	31	1137
Bell. Electric signal.....	C. Henzel.....	318,472	May 26	2061	557	31	998
Bell. Elevator alarm.....	L. W. Pedicord.....	318,202	May 19	1703	456	31	854
Bell. Gong door.....	R. R. Buchler.....	324,915	Aug. 25	2066	565	32	989
Bell. Magneto-electric call.....	H. T. O. Fraser.....	332,388	Dec. 15	1675	{ 438 439 }	{ 33 33 }	1311
Bell. Repeating call.....	A. T. Booth.....	310,368	Jan. 6	278	76	30	54
Bells. Apparatus for operating electric.....	H. E. Waite and S. H. Bartlett.....	313,728	Mar. 10	1022	263	30	976
Bells. Apparatus for operating electric.....	H. E. Waite and S. H. Bartlett.....	313,729	Mar. 10	1023	263	30	976
Bells. Die for making.....	H. T. Russell.....	316,489	Apr. 28	2089	547	31	386
Belt.....	M. Gandy.....	311,242	Jan. 27	1446	384	30	286

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Belt. Bodice.	S. Bretzfeld	330,089	Nov. 10	910	236	33	684
Belt. Carrier.	F. W. Blum and A. P. Lind	316,727	Apr. 28	2423	631	31	458
Belt-catch.	L. Oswald	327,407	Sept. 29	2986	772	32	1581
Belt-clamp and tightener.	J. T. Fertig	324,546	Aug. 18	1551	428	32	8.0.
Belt-clasp.	G. E. Zeltmacher	321,170	June 30	3009	797	31	1698
Belt-clasp. Waist.	O. A. Lehman	319,276	June 2	414	110	31	1126
Belt-cleaner. Driving.	G. R. Wilson and G. E. Watson	317,603	May 12	910	233	31	686
Belt-conveyer.	R. F. Miner	324,402	Aug. 18	1361	370	32	792
Belt-coupling.	J. England	311,923	Feb. 10	554	152	30	460
Belt-coupling.	G. Minch	333,422	Dec. 29	3117	814	33	1580
Belt-coupling.	F. Sandvos	320,592	June 23	2257	597	31	1469
Belt-coupling. Driving.	A. Kantner	330,140	June 16	1605	424	31	1355
Belt. Driving.	C. O. Gehrckens	324,993	Aug. 25	2177	595	32	949
Belt. Driving.	J. Mellette and F. M. Harris	332,672	Dec. 15	2080	546	33	1381
Belt. Electric.	L. Hughes	325,086	Aug. 25	2293	631	32	972
Belt. Electric.	O. F. Main	324,713	Aug. 18	1786	493	32	870
Belt. Electric.	P. Wenigmann	325,829	Oct. 20	1732	450	33	332
Belt. Electrical therapeutical.	C. N. West	332,467	Dec. 15	1772	464	33	1398
Belt-equalizer and tightener. Combined.	D. Hanney	330,977	Nov. 24	2060	537	33	920
Belt-fastener.	J. Essig	317,984	May 19	1420	381	31	801
Belt-fastener.	H. Greene	328,212	Oct. 13	912	237	33	174
Belt-fastener.	L. W. Herrick	315,781	Apr. 14	1119	294	31	210
Belt-fastener.	T. Kells	310,443	Jan. 6	350	98	30	70
Belt-fastener.	P. Koch	317,549	May 12	839	216	31	683
Belt-fastener.	A. D. Sikes	332,449	Dec. 15	1753	458	33	1324
Belt-fastener.	W. H. Sleep	316,668	Apr. 28	2312	607	31	438
Belt-fastener.	G. W. Southwick	322,078	July 28	2150	570	32	415
Belt-fastener.	J. Spruce	325,282	Oct. 20	1732	448	33	330
Belt-fastening.	S. Bretzfeld	316,572	Apr. 28	2623	684	31	495
Belt for driving machinery.	M. Gandy	313,069	Mar. 3	43	11	30	788
Belt-hinge.	E. C. Smith	322,066	July 28	2147	570	32	414
Belt-hole cover.	D. Kane	327,694	Oct. 6	250	65	33	46
Belt-gearing.	W. A. Otto	318,577	May 26	2219	592	31	955
Belt-guard for straw-carriers.	J. J. Moore and J. A. Ball	318,491	May 26	2084	563	31	933
Belt-guide.	J. J. Moore and J. A. Ball	320,510	June 23	2526	669	31	1534
Belt-guide and reel for thrashing-machines, &c. Combined.	F. B. Ray	311,364	Jan. 27	1624	444	30	319
Belt-hanging device.	J. and W. Eagleston	310,893	June 9	1135	301	31	1285
Belt-lace.	N. I. Allen	313,974	Mar. 17	1292	336	30	1033
Belt-reel.	W. E. Spangle	325,986	Sept. 8	1013	259	32	1209
Belt-replacer.	J. J. Harnsberger	315,615	Apr. 14	896	234	31	166
Belt. Safety.	E. J. Claghorn	312,085	Feb. 10	845	231	30	514
Belt. Safety.	F. Koopmann	330,132	Nov. 10	984	250	33	695
Belt-shifter.	A. R. Tiffany	324,190	Aug. 11	1060	290	32	727
Belt-shifter.	W. G. Vernon	313,035	Feb. 24	2142	522	30	767
Belt-shifter and brake. Combined.	W. A. Otto and B. A. Metcalf	317,411	May 5	833	166	31	641
Belt-shifter. Automatic.	F. L. Dow	320,633	Sept. 22	1881	493	32	1363
Belt-shifter. Automatic.	H. W. Leonard	313,505	Mar. 10	647	168	30	906
Belt-shifting and replacing device.	P. Diehl	313,099	Mar. 17	1314	343	30	1038
Belt-slat fastener.	S. J. Sells	313,777	Mar. 10	1003	259	30	972
Belt-stretcher.	D. C. B. Robinson	328,862	Oct. 20	1773	462	33	339
Belt-stretching machine.	B. M. Plummer.	331,325	Dec. 1	91	22	33	1015
Belt-supporter.	C. and E. Hinshaw	323,679	Aug. 4	388	111	32	585
Belt-tightener.	J. B. Allfree	322,373	Oct. 13	1129	291	33	214
Belt-tightener.	P. H. Binet	332,867	Dec. 22	2351	621	33	1438
Belt-tightener.	M. Dugan	318,707	May 26	2379	634	31	985
Belt-tightener.	J. T. Fertig	312,989	Feb. 24	2073	565	30	755
Belt-tightener.	A. Miller	325,558	Sept. 1	460	115	32	1104
Belt-tightener.	H. H. Sawtelle	312,659	Feb. 24	1636	451	30	678
Belt-tightener.	F. J. Schupp	320,492	Nov. 3	92	24	33	523
Belt-tightening device.	C. S. Wardwell	326,695	Sept. 22	1967	517	32	1400
Belt. Waist.	M. Rubin	332,624	Dec. 15	2003	525	33	1368
Belt. Waist.	L. Sanders	312,168	Feb. 10	971	265	30	536
Belt. Waist.	L. Sanders. (Reissue)	10,612	June 16	2070	544	31	1439
Belts, bandages, &c. Fastening for.	E. M. Moore	324,719	Aug. 18	1791	494	32	871
Belts. Manufacturing textile.	M. Gandy	331,958	Dec. 8	1057	274	33	1197
Belting.	E. Deming	316,756	Apr. 28	2463	643	31	465
Belting.	B. L. Stowe	321,153	June 30	2987	791	31	1624
Belting.	B. L. Stowe	321,154	June 30	2988	792	31	1624
Belting. Machine for the manufacture of.	M. Gandy	314,825	Mar. 31	2434	642	30	1280
Belting. Manufacture of machine.	R. H. Mullen and H. T. Atkins.	316,906	Apr. 28	2677	697	31	505
Belting or driving-band.	W. White	319,366	June 2	525	143	31	1148
Bench:							
See Draw bench.	Waah-bench.						
Bench-clamp.	H. C. Fenton	322,434	July 21	1376	360	32	268
Bench-clamp.	F. P. Hish	324,555	Aug. 18	1559	430	32	828
Bench-dog.	M. J. Kugler	313,943	Mar. 17	1251	325	30	1026
Bench-hook.	J. B. Sargent	314,054	Mar. 17	1326	362	30	1052
Bench-stop.	F. H. Whitney	320,795	Nov. 3	493	125	33	590
Bending-machine.	E. Andrews	320,613	Nov. 3	260	67	33	554
Bending-tool. Hand.	G. A. Ohl	317,002	May 5	99	26	31	540
Bengal-light book.	C. Gerhard	320,307	Oct. 27	2437	631	33	468
Bengal lights. Composition for.	C. Gerhard	323,682	Aug. 4	371		32	592
Benzaldehyde. Production of chlorinated derivatives of.	R. Gnehm	315,932	Apr. 14	1328		31	247
Benzylated acid violet. Manufacture of.	H. Hassencamp	331,965	Dec. 8	1066		33	1198
Benzylated methyl violet. Manufacture of.	H. Hassencamp	331,964	Dec. 8	1064		33	1198
Berries, &c. Device for assorting.	J. B. Johnson	320,565	Nov. 3	196	52	33	542
Berth. Ship's.	C. A. Milligan	322,468	July 21	1423	372	32	273

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Berth Sleeping-car.	G. Love	315,517	Apr. 14	751	198	31	140
Bessemer converters. Apparatus for mounting and dismounting.	P. C. Gilchrist and L. G. Fitzmaurice.	316,537	Apr. 28	2146	564	31	403
Bessemer process.	G. Lauder	315,150	Apr. 7	296		31	41
Beton. Manufacture of.	H. A. Hudson	324,112	Aug. 11	952		32	706
Beton or concrete. Construction and repair with.	J. C. Goodridge, Jr.	317,338	May 5	561	143	31	626
Beton or concrete. Repairing with.	J. C. Goodridge, Jr.	317,337	May 5	559	142	31	625
Bevel.	J. W. H. Donbler	316,341	Apr. 21	1869	494	31	351
Bevel.	C. Friess and J. N. Todd	320,866	June 23	2599	689	31	1548
Bevel.	G. W. Rice	323,077	July 28	2874	601	32	436
Bevel and miter.	S. S. Colt	322,906	July 28	2929	536	32	392
Bevel for draftsmen or artificers.	J. J. Hedges	318,924	June 2	73	19	31	1061
Bevel, miter, and try-square. Combined.	S. S. Colt	330,378	Nov. 17	1289	342	33	767
Bevel-sawing machine.	J. T. Speer	330,520	Nov. 17	1474	394	33	801
Beveling and finishing the edges of wooden picture-mats. Tool for.	E. L. Gaylord	313,196	Mar. 3	232	58	30	819
Bicycle.	J. G. Blount	323,229	July 23	2562	662	32	490
Bicycle.	W. Clemson	316,609	Apr. 21	1432	373	31	272
Bicycle.	L. Ehrlich	327,669	Oct. 6	231	57	33	41
Bicycle.	W. N. Eyster	320,917	June 30	2676	711	31	1506
Bicycle.	J. Gibbons	313,490	Mar. 10	627	163	30	902
Bicycle.	C. F. Hadley	331,295	Dec. 1	55	13	33	1009
Bicycle.	S. A. Jan Graw	330,123	Nov. 10	955	247	33	624
Bicycle.	F. Jannus	331,199	Nov. 24	2361	639	33	976
Bicycle.	T. B. Jeffery	333,128	Dec. 29	2720	714	33	1511
Bicycle.	T. Johnston	314,335	Mar. 24	1754	468	30	1122
Bicycle.	H. H. Jones	314,849	Mar. 31	2461	630	30	1285
Bicycle.	W. S. Kelley	321,819	July 7	564	147	32	104
Bicycle.	W. S. Kelley	321,932	July 7	716	157	32	130
Bicycle.	E. G. Latta	312,277	Feb. 17	1129	309	30	513
Bicycle.	E. G. Latta	315,394	Apr. 7	442	112	31	80
Bicycle.	E. G. Latta	321,508	July 7	130	34	32	26
Bicycle.	E. G. Latta	324,264	Aug. 11	1173	318	32	748
Bicycle.	J. Laughlin	332,263	Dec. 15	1503	393	31	1291
Bicycle.	C. S. Leddell	319,923	June 16	1391	356	31	1317
Bicycle.	W. Lyon	329,402	Oct. 27	2586	667	33	491
Bicycle.	G. W. Marble	316,047	Apr. 21	1479	387	31	281
Bicycle.	G. W. Marble	328,499	Oct. 20	1292	336	33	251
Bicycle.	F. D. Owen	323,066	July 28	2202	597	32	434
Bicycle.	J. H. Patton	318,729	May 26	2495	666	31	1065
Bicycle.	M. D. Rucker	322,074	July 28	2134	567	32	412
Bicycle.	H. N. Starr	328,353	Oct. 13	1091	284	33	207
Bicycle.	F. Swain	311,687	Feb. 3	298	81	30	405
Bicycle.	C. G. Thayer	312,930	Feb. 24	1995	546	30	741
Bicycle.	G. T. Warwick	322,221	July 14	1103	287	32	210
Bicycle.	J. L. Yost	310,558	Jan. 13	887	240	30	174
Bicycle-fork.	J. Knous and A. E. Wallace	312,732	Feb. 24	1736	477	30	195
Bicycle-forks. Making.	J. Knous and A. E. Wallace	313,063	Mar. 3	58	16	30	788
Bicycle-handle.	R. Rodes, Jr.	325,014	Aug. 25	2202	603	32	954
Bicycle-holder.	A. P. Seiler	330,430	Nov. 17	1356	361	33	779
Bicycle-saddle.	F. G. Burley	326,946	Sept. 29	2351	615	32	1474
Bicycle-saddle.	L. S. Copper	327,770	Oct. 6	346	89	33	61
Bicycle-saddle.	R. E. Humphreys	328,682	Oct. 20	1553	404	33	297
Bicycle-saddle.	T. J. Kirkpatrick	314,143	Mar. 17	1502	392	30	1072
Bicycle-saddle.	J. A. Lamplugh	311,332	Jan. 27	1572	430	30	310
Bicycle-saddle.	W. D. McCoy	314,701	Mar. 31	2240	596	30	1244
Bicycle-saddle.	C. T. Starbuck	328,863	Oct. 20	1774	463	33	320
Bicycle-saddle.	T. Warwick	316,702	Apr. 28	2384	621	31	452
Bicycle-safety attachment.	W. Bevan	319,325	June 2	548	149	31	1152
Bicycle-socal attachment.	J. A. Kirk	317,377	May 5	606	155	31	634
Bicycle-stand.	H. B. Hart	322,057	July 14	890	230	32	170
Bicycle-treadle.	G. W. Woldman	331,173	Nov. 24	2321	629	33	968
Bicycle-wheel.	G. E. Blackham	311,803	Feb. 3	441	119	30	431
Bicycle-wheel.	E. N. Bowen	328,280	Oct. 13	997	259	33	169
Bicycles-wheels. Tool for making hollow rims for.	G. T. Warwick	328,987	Oct. 27	1975	513	33	381
Bicycles. Machine for bending and setting the back-bones of.	G. T. Warwick	328,986	Oct. 27	1974	513	33	381
Bier.	S. E. Barrett	321,781	July 7	505	134	32	94
Bilge-water ejector.	G. Haydn	322,374	July 14	1295	329	32	246
Billiard and pool tables. Pocket for.	D. W. Seely	327,720	Oct. 6	302	77	33	53
Billiard-chalk holder.	K. S. Jones	333,220	Dec. 29	2962	748	33	1535
Billiard-cue.	O. F. Mitchell	310,456	Jan. 6	374	104	30	73
Billiard-cue chalk. Substitute for.	A. Peple	315,826	Apr. 14	1180		31	221
Billiard-register.	R. Embrey	311,300	Jan. 27	1533	417	30	302
Billiard-table.	E. Brunswick	324,004	Aug. 11	805	223	32	681
Billiard-table.	N. H. Ganser	322,436	July 21	1378	361	32	268
Billiard-table-bridge indicator.	C. F. Spaulding	317,871	May 12	1261	326	31	709
Billiard-table cushion.	H. V. Collender. (Reissue)	10,647	Sept. 29	3079	802	32	1693
Billiard-table cushion.	J. Rivoiro	317,017	May 5	117	29	31	543
Billiard-table leg.	M. Cashin	334,917	Aug. 25	2068	566	32	920
Billiard-table leveler.	G. Livingston	330,911	Nov. 24	1973	534	33	964
Billiard-tables. Attachment for leveling.	C. B. Hall	331,297	Dec. 1	57	14	33	1009
Bin.							
Se; Flour-bin. Grain-bin.							
Flour and meal bin.							
Bincher, &c., carrier.	C. S. Hensley	316,362	Apr. 21	1898	502	31	356

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Binder. Double-flat	J. Busacker	328,646	Oct. 20	1507	392	33	286
Binder. Newspaper	G. W. Welch	314,150	Mar. 17	1521	399	30	1076
Binder. Temporary	G. E. Alvord	349,660	June 9	935	247	31	1229
Binder. Temporary	J. W. Appleby	324,451	Aug. 18	1426	389	32	803
Binder. Temporary	A. T. Atherton	314,508	Mar. 24	1903	531	30	1173
Binder. Temporary	O. Bloch	327,063	Sept. 29	2496	651	32	1500
Binder. Temporary	F. Bowman	313,574	Mar. 10	730	192	30	922
Binder. Temporary	A. L. Brown	330,632	June 23	2299	607	31	1489
Binder. Temporary	A. Dom	329,444	Nov. 3	22	7	33	509
Binder. Temporary	S. B. Dunn	330,967	Nov. 24	2050	554	33	919
Binder. Temporary	H. Goodchild	332,390	Dec. 15	1677	439	33	1312
Binder. Temporary	G. V. Nauerth	316,609	Apr. 28	2530	661	31	478
Binder. Temporary	A. H. Roach and F. Kroedel	317,856	May 12	1242	329	31	759
Binder. Twine	W. S. Davey	326,204	Sept. 15	1319	342	32	1272
Binders. Cord-holder for self	W. Butterfield	328,918	Oct. 27	1862	486	33	362
Binders. Knotter mechanism for self	R. W. Dixon	324,988	Aug. 25	2170	593	32	948
Binding fabrics	E. F. Bradford	316,521	Apr. 28	2128	560	31	404
Binding-machine. Automatic	G. H. Howe	321,438	July 7	30	8.9	32	9
Bird-cage	G. Bredée	326,841	Sept. 22	2196	573	32	1439
Bird-cage	B. A. Drayton	319,891	June 9	1252	330	31	1285
Bird-cage	W. Kaiser	324,704	Aug. 18	1775	490	32	868
Bird-cage	J. Putnam	311,848	Feb. 3	498	136	30	442
Bird-cages. Attaching cuttle-bone to	W. R. Boerner	325,313	Sept. 1	112	32	32	1036
Bisulphites. Apparatus for making solutions of	E. Ritter and C. Kellner	328,066	Oct. 13	731	191	33	138
Bisulphites. Making solutions of	E. Ritter and C. Kellner	329,210	Oct. 27	2308	597	33	441
Bit							
See Auger-bit.	Expandable bit.						
Boring-bit.	Horse-bit.						
Bridle-bit.	Metal-boring bit.						
Drenching-bit.							
Bit-brace	J. Chantrell	328,649	Oct. 20	1512	393	33	290
Bit-brace	H. E. Fuller	320,868	June 23	2601	689	31	1548
Bit-brace	J. T. Pedersen	313,950	Mar. 17	1969	329	30	1028
Bit-stock	G. H. Packwood	323,198	July 28	2442	647	32	468
Bit-stock	J. T. Pedersen	317,187	May 5	352	89	31	588
Bit-stock	W. S. Washburn	323,089	Aug. 11	785	218	32	678
Bits. Counterboring attachment for	E. F. Lindsey	323,418	Dec. 29	3112	811	33	1680
Bits, &c. Extension-shank for	I. P. Shotta	315,079	Apr. 7	196	30	31	25
Biters	D. J. Kyte	330,496	Nov. 17	1442		33	795
Biters	P. Schwind	327,003	Oct. 6	134		33	25
Blackboard	W. E. McKenzie	323,350	July 28	2601	708	32	506
Blackboard	H. E. Moon	314,600	Mar. 31	2110	562	30	1220
Blackboard and desk. Combined	J. G. Smith and H. E. Butler	328,727	Oct. 20	1616	421	33	309
Blackboard and desk. Combined reversible	M. W. Smith and B. F. Johnson	317,568	May 12	889	328	31	692
Blackboard and drawing-case. Combined	W. A. Emerson	329,300	Oct. 27	2424	628	33	463
Blackboard composition	L. Chadwick	330,375	Nov. 17	1286		33	766
Black-leading machine	E. A. Blake	316,229	Apr. 21	1723	452	31	326
Blacking. Boot and shoe	G. S. Colburn	325,330	Sept. 1	120		32	1038
Blacking box. Shoe	F. M. Osborn	330,146	Nov. 10	960	255	33	699
Blank-feeding mechanism	F. H. Richards	331,447	Dec. 1	270	73.74	33	1046
Blanket	J. Broadhead	312,333	Feb. 17	1188	325	30	584
Blast-furnace	F. Brown	316,233	Apr. 21	1728	454	31	327
Blast-furnace	F. Brown	323,634	Aug. 4	333	95	32	584
Blast-furnace	D. Sandstrom and J. H. Anderson	313,537	Mar. 10	685	179	30	913
Blast-furnace	V. O. Strobel	326,804	Sept. 22	2142	558	32	1430
Blast-furnace	P. L. Welmer	320,604	June 23	2271	600	31	1485
Blast-furnace	P. L. Welmer	320,605	June 23	2273	601	31	1485
Blast-furnace	P. L. Welmer and H. T. Euston	326,182	Sept. 15	1288	333	32	1966
Blast-furnace bell and apparatus for working the same	J. M. Hartman	321,966	July 14	765	200	32	147
Blast-furnace tuyere	W. B. Devereux	318,604	May 26	2946	601	31	960
Blast-furnaces. Hoisting and top-filling apparatus for	F. Brown	313,849	Mar. 17	1111	288	30	1000
Blast-holes. Tamping	J. L. L. Knox	314,585	Mar. 31	2092	558	30	1217
Blasting-powder	A. Gacon	314,824	Mar. 31	2433		30	1220
Blasting-plug	W. T. McCall	318,771	May 26	2467	661	31	1001
Blasting timber	W. T. McCall	321,308	June 30	3175	847	31	1660
Bleaching and dyeing apparatus	J. Farmer and A. Lalancie	313,306	Mar. 3	392	97	30	848
Bleaching apparatus	J. Meikle	311,349	Jan. 27	1601	438	30	315
Bleaching. Apparatus for continuous	W. Mather	324,137	Aug. 11	966	272	32	714
Bleaching compound for jute paper-stock, &c.	P. Souders, C. Smith, H. M. Craig-head, and N. Souders	312,525	Feb. 17	1471		30	636
Bleaching liquids. Apparatus for	M. and C. C. Hanford	319,409	June 2	578	157	31	1158
Bleaching purposes. Application of chloride of lime to	G. Lunge	325,684	Sept. 8	680		32	1137
Blind	J. G. Wilson	326,371	Sept. 15	1547	402	32	1315
Blind. Inside	F. Keller	317,797	May 12	1162	308	31	744
Blind, &c. Inside	F. Keller	317,798	May 12	1165	309	31	744
Blind-retaining way-strip for windows	H. E. Willer	323,185	Dec. 29	2798	732	33	1524
Blind, shutter, or door stop	J. C. Evans	329,894	Nov. 10	641	163	33	632
Blind-slat check	J. Racey	319,620	June 9	888	235	31	1220
Blind-slat fastener	W. J. Brassington	322,247	July 14	1132	295	32	915
Blind-slat fastener	P. M. Melick	321,836	July 7	592	153	32	108
Blind-slat fastener. Window	J. M. Van Dyke	315,861	Apr. 14	1224	320	31	229
Blind-slat fastening	E. M. Coffin	313,919	Mar. 17	1215	316	30	1019
Blind-slat fastening	G. F. Evans	323,863	Aug. 4	618	174	32	640
Blind-slat fastening	A. M. Freeman	319,087	June 2	190	50	31	1083
Blind-slat holder	D. Hinman	324,693	Aug. 18	1764	486	32	866
Blind-slat holders. Window	W. Jensen	316,627	Apr. 28	2260	595	31	428
Blind-slat. Window	H. E. Willer	312,031	Feb. 10	800	218	30	504
Blind-slats. Machine for inserting pins in	G. W. Morstatt	314,464	Mar. 24	1917	512	30	1160

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Blind. Sliding	N. Jewett	394,384	Aug. 18	1330	364	32	787
Blind. Sliding	N. Jewett	394,385	Aug. 18	1340	364	32	788
Blind. Sliding window	R. M. Clapp	397,235	Sept. 29	2723	707	32	1541
Blind. Sliding window	R. M. Clapp	397,236	Sept. 29	2724	708	32	1541
Blind-tenon	J. Forhan	313,859	Mar. 17	1122	291	30	1002
Blind. Venetian	W. H. Lang	322,732	July 21	1778	469	32	339
Blind. Window	R. B. Ayres	321,474	July 7	92	24	32	19
Blind. Window	A. Barker	319,064	June 9	940	249	31	1230
Blind. Window	S. R. Bickner	330,203	Nov. 10	1049	274	33	712
Blind. Window	W. G. Hale	331,130	Nov. 24	2260	614	33	957
Blind-wiring machine	A. Maher and M. Greaney	333,241	Dec. 29	2875	752	33	1538
Blinds. Woven-tape ladder for Venetian	J. Carr	328,286	Oct. 13	1003	261	33	190
Block:							
See Alphabet-block.	Paving-block.						
Brake-block.	Puller-block.						
Building-block.	Saw-mill head-block.						
Carriage-block.	Seal-skin sacque, dolman,						
Carriage prop-block.	and ulster block.						
Carriage-top-prop	Sidewalk and paving						
block.	block.						
Electrotype-block.	Stereotype-block.						
Heeling-block.	Swivel-block.						
Hoisting-block.	Toy block.						
Horse-block.	Toy building-block.						
Horseshoe-block.							
Block and switch signal	L. E. Wimer	322,877	July 21	1980	524 525	32	376
Blood. Preparing dried	W. G. Strype	318,896	May 26	2546		31	1014
Blotter	H. L. Williams	324,628	Aug. 18	1673	462	32	849
Blotter-bath	L. Badley	328,634	Oct. 20	1494	389	33	286
Blotter. Hand	A. Hadley	327,357	Sept. 29	2756	715	32	1547
Blotter-holder. Automatic	A. Ross	327,022	Sept. 29	2441	638	32	1491
Blotting-pad. Calendar	H. C. Whitney	329,348	Oct. 27	2501	644	33	477
Blouse and pantaloons-overalls. Combined	S. Jacobs	315,506	Apr. 14	730	193	31	136
Blouse and pantaloons. Combined	A. Witkowski	324,226	Aug. 11	1201	326	32	754
Blow-off apparatus	T. G. Lovegrove	320,878	June 23	2613	692	31	1550
Blow-pipe	G. D. Cowen	320,461	June 23	2087	550	31	1450
Blower	S. Barrow	317,436	May 5	696	175	31	649
Blower	J. F. Winchell	314,901	Mar. 31	2539	671	30	1298
Blower. Fan	H. H. Packer	310,219	Jan. 6	75	20	30	10
Blower. Fire-place	G. W. Geissenhainer	332,073	Dec. 8	1224	320	33	1226
Blower for boiler-furnaces. Combined steam and air	W. McClave	318,006	May 19	1455	390	31	807
Blower for fire-grates	S. C. Houghton	310,225	Jan. 13	851	231	30	167
Blower for stoves and fire-places	L. A. Miller	317,404	May 5	640	164	31	639
Blower. Rotary	I. D. Weaver	320,196	June 16	1671	444 445	31	1368
Blower. Steam fan	J. C. Hendry	323,677	Aug. 4	385	110	29	594
Blowers. Mechanism for operating fan	J. G. Hoffman and G. Weber	310,681	Jan. 13	669	184	30	133
Blowing-engine	W. Kent	323,427	Aug. 4	54	14	32	533
Bluing. Compound for laundry	P. Spence	326,601	Sept. 29	1837		32	1376
Bluing-holder	J. C. Nobles	313,015	Feb. 24	2116	577	30	763
Bluing-package	L. H. Thomas	331,844	Dec. 8	891	230	33	1165
Board:							
Blackboard.	Game-board.						
Bosom-board.	Ironing-board.						
Braid-board.	Lap-board.						
Cartridge-loading	Laying-out and embalm-						
board.	ing board.						
Center-board.	Multiple switch-board.						
Dash-board.	Pastry-board.						
Drawing-board.	Plating-board.						
Electric switch-	Reed-board.						
board.	Sign-board.						
Electrical switch-	Stove-board.						
board.	Switch-board.						
Fire-board.	Vehicle dash-board.						
Fish-cutting board.	Wagon scoop-board.						
Flooring-board.	Wash-board.						
Boards, &c. Device for adjusting	D. S. Brown	316,941	May 5	14	4	31	526
Boat:							
See Collapsible or fold-	Log-boat.						
ing boat.	Sail-boat.						
Foot-boat.	Stone-boat.						
Life-boat.	Torpedo-boat.						
Life or other boat.	Tow-boat.						
Boat	W. L. Casaday	333,391	Dec. 29	3073	802	33	1573
Boat	J. Forbes, Jr.	315,758	Apr. 14	1092	286	31	204
Boat	J. W. Rough	317,020	May 5	119	30	31	544
Boat-boom. Portable	J. B. Hoyt	328,405	Oct. 13	1178	305	33	223
Boat-detaching apparatus	H. E. Foster	312,714	Feb. 24	1713	471	30	691
Boat-hull	L. P. Rider	332,212	Dec. 8	1428	368	33	1261
Boat-rigging	C. F. Winsor	313,398	Mar. 3	505	171	30	870
Boats. Ballast for	G. W. Schermerhorn	329,068	Oct. 27	2126	530	33	407
Boats and other vessels. Combined stern-sheet block-traveler, oar-lock, and cleat for	J. Richardson	324,165	Aug. 11	1028	231	32	721
Boats over. Form to build	G. W. Ruggles	311,038	Jan. 20	1146	313	30	226
Boats through or above the surf to smooth water.	J. E. Staples	321,916	July 7	682	180 181	32	126
Marine way and cradle for transferring							
Bobbin	T. Hall	320,784	Nov. 17	1804	486	33	865
Bobbin	J. B. Thorwarth and W. Tunstall, Jr.	321,772	July 7	496	131	32	93
Bobbin and spool	J. L. Cheney	316,944	May 5	17	5	31	526
Bobbin. Filling	J. A. Sisson	320,008	June 16	1427	375	31	1323

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bobbin-winder	A. V. Abercrombie	332,771	Dec. 22	2220	585	323	1415
Bobbin-winder	A. Coates	322,144	Oct. 27	2203	571	322	421
Bodies. Device for transporting human	J. D. Marston and G. Clapp	333,515	Aug. 4	174	51	322	554
Body-protector	W. L. Wilde	317,693	May 12	1027	266	31	718
Boiler.							
See Circulating-boiler.	Range-boiler.						
Culinary boiler.	Salt-boiler.						
Domestic and agricultural boiler.	Steam-boiler.						
Egg-boiler.	Steam and water boiler.						
Heating-boiler.	Tubular boiler.						
Locomotive-boiler.	Upright boiler.						
Magazine-boiler.	Vegetable-boiler.						
Marine boiler.	Vertical tube-boiler.						
Paper-pulp boiler.	Wash-boiler.						
	Water-tube boiler.						
Boiler	A. F. Clinch	328,189	Oct. 13	886	230	33	168
Boiler	R. Munroe	322,120	July 14	975	254	32	186
Boiler	W. H. Payne	314,467	Mar. 24	1924	514	30	1161
Boiler	L. H. Prentice	327,016	Sept. 29	2435	636	32	1490
Boiler	J. Watson	324,902	Aug. 25	2058	561	32	926
Boiler and steamer for domestic purposes.	E. Richmond	313,886	Mar. 10	874	228	30	950
Boiler and straw-burning furnace.	W. Stephenson	310,740	Jan. 13	744	202	30	147
Boiler ash-pan	J. C. Anderson and F. H. Latimer	311,095	Jan. 20	1230	337	30	241
Boiler ash-pan	J. C. Anderson and F. H. Latimer	315,215	Apr. 7	338	82	31	60
Boiler-cleaner	L. A. Craig	311,296	Jan. 27	1529	416	30	301
Boiler-cleaner	H. Estelle	323,571	Aug. 4	246	72	32	567
Boiler-cleaner	F. M. Forman	323,310	July 28	2605	692	32	497
Boiler-cleaner	G. A. Galloway	314,326	Mar. 24	1747	465	30	1127
Boiler-cleaner	J. Waters	317,600	May 12	903	232	31	695
Boiler cleaner and filter	J. G. Miner	314,257	Mar. 24	1645	436	30	1108
Boiler-cleaning apparatus.	W. Ord	311,672	Feb. 3	277	77	30	401
Boiler-covering	C. C. Gilman	328,581	Oct. 20	1408	366	33	271
Boiler-covering	M. Keenan	331,409	Dec. 1	219	57	33	1037
Boiler-covering. Non conducting.	T. Merriam	327,810	Oct. 6	400	104	33	70
Boiler-coverings. Applying	W. S. Grubb	317,530	May 12	814	209	31	679
Boiler-feed and alarm	T. Barber	325,698	Sept. 8	900	227	32	1188
Boiler-flue cleaner	J. M. Ferguson	331,782	Dec. 8	800	202	33	1148
Boiler-flue cleaner	J. R. Woodworth	310,549	Jan. 6	501	138	30	96
Boiler for heating fruit in jars	F. M. Austen	315,377	Apr. 7	536	138	31	97
Boiler-furnace	D. D. Cattanaach	320,539	June 23	2185	577	31	1468
Boiler-furnace	J. Collis	311,874	Feb. 10	543	149	30	458
Boiler-furnace	J. Collis	326,547	Sept. 22	1761	461	32	1363
Boiler-furnace	C. B. Davison	329,539	Nov. 3	163	43	33	536
Boiler-furnace	C. W. Fowler and A. O. Nepil	330,685	Nov. 24	1939	525	33	897
Boiler-furnace	W. F. Grassler	331,492	Dec. 1	334	90, 91	33	1058
Boiler-furnace	J. Ham	331,735	Dec. 1	596	147	33	1102
Boiler-furnace	C. A. Knight and G. W. Thode	323,871	Aug. 4	625	176	32	641
Boiler-furnace	C. Loetscher	314,537	Mar. 24	2029	541	30	1179
Boiler-furnace	J. Mailer	330,136	Nov. 10	969	252	33	697
Boiler-furnace	G. A. McIlhenny	328,133	Oct. 13	813	212	33	154
Boiler-furnace	T. Murphy	316,641	Apr. 28	2874	598	31	432
Boiler-furnace	L. Stevens	333,429	Dec. 29	3124	816	33	1582
Boiler-furnace	W. Westlake	328,991	Oct. 27	1980	515	33	382
Boiler-furnace	H. C. Williamson	313,567	Mar. 10	723	189	30	821
Boiler-furnace	F. E. Wilson	317,261	May 5	452	113	31	606
Boiler-furnace grate. Steam.	M. A. Foster	331,700	Dec. 1	685	169	33	1119
Boiler-furnace. Steam.	R. C. Carpenter	331,277	Dec. 1	16	4	33	1003
Boiler-furnace. Steam.	M. Corvill	313,992	Mar. 17	1306	341	30	1037
Boiler-furnace. Steam.	M. Corvill	326,631	Sept. 22	1880	492	32	1382
Boiler-furnace. Steam.	A. Donneley	323,124	July 28	2335	619	32	449
Boiler-furnace. Steam.	M. A. Foster	331,639	Dec. 1	684	169	33	1119
Boiler-furnace. Steam.	J. Ham	331,636	Dec. 1	597	147	33	1102
Boiler-furnace. Steam.	M. P. Henderson and A. Bergland	326,980	Sept. 29	2389	625	32	1482
Boiler-furnace. Steam.	R. Lavery	322,298	July 14	1191	213	32	226
Boiler-furnace. Steam.	F. Leadbeater	326,877	Sept. 22	2248	586	32	1449
Boiler-furnace. Steam.	S. T. Owens	330,147	Nov. 10	981	255	33	699
Boiler-furnace. Steam.	B. Sloper	324,889	Aug. 25	2032	556	32	923
Boiler-furnace. Steam.	L. Stevens	333,430	Dec. 29	3126	817	33	1582
Boiler-furnace. Steam.	J. P. Tuttle	323,375	July 28	2696	717	32	513
Boiler-furnace. Steam.	D. Umbstaetter	324,698	Aug. 25	2046	560	32	925
Boiler-header. Sectional	R. R. Zell	327,550	Oct. 6	446	116	33	73
Boiler-heads. Securing rings in	P. Patterson	329,335	Oct. 27	2483	640	33	474
Boiler heater and feeder	O. Rothrock	332,561	Dec. 15	1917	502	33	1352
Boiler indicator and alarm	J. M. Williams	326,699	Sept. 22	1972	518	32	1401
Boiler-plate	A. H. Emery	322,051	July 14	882	228	32	160
Boiler safety device	W. A. Tracy	329,569	Nov. 3	113	20	33	526
Boiler-sput.	H. P. Folsom	332,338	Dec. 15	1602	421	33	1299
Boiler-tube	J. W. Reeder	324,594	Aug. 18	1612	444	32	839
Boiler-tube cleaner	E. W. Vanduzen	330,443	Nov. 17	1377	367	33	782
Boiler-tube cutter	G. W. Odgers	325,438	Sept. 1	302	74	32	1073
Boiler-tube expander	M. Cashin	319,559	June 9	800	212	31	1204
Boiler-tube expander	M. Cashin	324,007	Aug. 11	808	225	32	682
Boiler-tube scraper	A. B. Smith	331,093	Nov. 24	2205	597	33	948
Boiler-tubes. Utilizing old	N. Stephens and M. L. Ritchie	319,144	June 2	258	67	31	1095
Boiler water purifier	G. M. Brauninger	323,404	Aug. 4	142	42	32	549
Boiler water-purifier	J. J. Richards	328,254	Oct. 13	960	251	33	183
Boiler water-tube	W. F. Wetmore and L. H. Bratt	333,043	Dec. 22	2396	680	33	1482
Boilers. Connecting-box for water-tube	W. Kent	330,128	Nov. 10	961	249	33	695
Boilers. Cutter for flue-holes in tube-sheets of	W. F. Harrison	318,697	May 26	2639	700	31	1031

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Boilers. Device for cleaning water-legs of.....	C. H. Manning.....	332,266	Dec. 15	1505	394	33	1281
Boilers. Device for purifying the water of.....	E. W. Vanduzen.....	328,548	Oct. 20	1362	356	33	263
Boilers. Feeding fuel to.....	S. W. Valentine.....	332,975	Dec. 22	2428	658	33	1465
Boilers. Feeding water to.....	A. De Dion, G. Bouton, and C. Trépardoux.....	329,722	Nov. 3	400	102	33	551
Boilers. Furnace for heating steam.....	M. P. Elliot.....	331,287	Dec. 1	47	11	33	1007
Boilers. Machine for calking.....	H. P. Folsom.....	310,812	Jan. 13	831	225	30	163
Boilers. Making connecting-boxes for.....	W. Kent.....	330,129	Nov. 10	961	249	33	695
Boilers. Making headers for water-tube.....	W. Kent.....	324,706	Aug. 18	1778	491	32	866
Boilers. Man-hole cover for.....	F. Trowbridge.....	320,512	June 23	2150	567	31	1462
Boilers, &c. Plastic-cement mixture for non-conducting coverings for.....	D. A. Brown.....	311,287	Jan. 27	1520	30	306	
Boilers. Preventing incrustation in.....	T. J. Reynolds.....	324,596	Aug. 18	1614	445	32	839
Boilers. Purifying water for.....	C. Elliot.....	317,983	May 19	1418	380	31	800
Bolster-plate.....	R. Sergeant.....	314,730	Mar. 31	2222	606	30	1252
Bolster-spring.....	S. C. Blaine.....	315,382	Apr. 7	542	140	31	98
Bolt: See Anchor-bolt. Reel-bolt. Assembling-bolt. Screw-bolt. Door-bolt. Shutter-bolt. Flour-bolt. Shutter and door bolt. King-bolt. Square-headed bolt. Lock-bolt. Thill-coupling bolt.							
Bolt.....	H. T. Buckley and W. H. Wineland.....	310,787	Jan. 13	802	917	30	158
Bolt.....	J. J. Devine.....	315,748	Apr. 14	1078	283	31	291
Bolt.....	C. F. Diehlmann.....	316,760	Apr. 28	2408	644	31	466
Bolt.....	C. E. Hayes.....	316,619	Apr. 28	2348	562	31	427
Bolt.....	E. Lucas.....	327,887	Oct. 6	487	127	33	86
Bolt.....	W. F. Morgan.....	317,170	May 5	328	82	31	583
Bolt-blank machine.....	J. R. Blakeslee.....	323,889	Dec. 22	2352	621	33	1426
Bolt-cutter.....	O. A. Sathe.....	324,961	Aug. 25	2127	581	32	942
Bolt-cutter.....	T. J. Vinton.....	318,525	May 26	2140	576	31	943
Bolt-cutter head.....	M. D. Luehrs.....	324,946	Aug. 25	2106	575	32	936
Bolt-fastener.....	E. G. Holden.....	330,119	Nov. 10	947	246	33	692
Bolt-heading machine.....	I. W. Bliss.....	324,214	Aug. 11	1109	300	32	736
Bolt-heading machine.....	L. P. Lewis and E. M. Scott.....	311,164	Jan. 20	1322	363	30	257
Bolt-heading machine.....	J. Stacker.....	312,399	Feb. 17	1287	356	30	603
Bolt lock. Screw.....	G. D. Tolman.....	322,657	July 21	1679	445	32	321
Bolt-machine.....	C. Hall and J. Young.....	317,642	May 12	959	246	31	705
Bolt-making device.....	E. A. Oliver.....	311,063	Jan. 20	1217	334	30	229
Bolt-operating device.....	L. G. Moulton.....	327,010	Sept. 29	2429	635	32	1469
Bolt-operating mechanism.....	P. Herzog.....	319,488	June 9	706	189	31	1188
Bolt or separator. Vertical centrifugal.....	L. Gathmann.....	319,574	June 9	818	217	31	1208
Bolt-releasing device. Electric.....	G. L. Henzel.....	328,030	Oct. 13	780	179	33	130
Bolt-threading machine.....	J. W. Adams.....	318,678	May 26	2341	625	31	978
Bolts. Locking.....	N. H. Brown.....	326,101	Sept. 15	1169	299	32	1245
Bolts. Machine for forming screw-threads on.....	J. C. Cochran.....	316,010	Apr. 21	1433	373	31	272
Bolts, &c. Machine for screw-threading.....	J. North.....	321,841	July 7	597	155	32	109
Bolts, rivets, &c. Machine for making.....	W. Fischer and R. Busek.....	311,969	Feb. 10	691	189	30	424
Bolting-chest.....	R. M. True.....	326,175	Sept. 15	1274	328	32	1264
Bolting-chest and middlings-purifier.....	J. T. Lee.....	321,441	July 7	36	10	32	10
Bolting-machine. Centrifugal.....	E. Streitz.....	329,097	June 9	2137	553	33	409
Bolting-machine for flour-mills, &c.....	J. V. Hecker.....	318,983	Oct. 27	72	18	31	1061
Bolting-reel.....	R. L. Downton.....	322,358	July 14	1272	332	32	242
Bolting-reel.....	F. Ferrier.....	319,572	June 9	815	217	31	1207
Bolting-reel.....	A. Heine.....	323,143	July 28	2357	626	32	453
Bolting-reel.....	J. W. Hill.....	322,396	Dec. 15	1683	441	33	1313
Bolting-reel.....	C. F. King.....	329,090	Dec. 8	1257	327	33	1231
Bolting-reel.....	H. F. Saint Requier.....	324,595	Aug. 18	1613	444	32	839
Bolting-reel.....	A. J. Terry.....	312,672	Feb. 24	1656	457	30	692
Bolting-reel.....	J. Warrington.....	310,483	Jan. 6	406	112	30	78
Bolting-reel.....	A. N. Wolf.....	321,875	July 7	645	167	32	117
Bolting-reel attachment.....	F. Burckhardt.....	313,968	Mar. 17	1303	340	30	1036
Bolting-reel. Centrifugal.....	E. A. Squier.....	325,128	Aug. 25	2243	645	32	961
Bolting-reel. Centrifugal.....	L. Wommer and J. Buck.....	329,423	Oct. 27	2620	476	33	497
Bolting-reel clothing.....	A. Heine.....	323,579	Aug. 4	256	75	32	569
Bolting-reels. Mesh-cleaning attachment for.....	L. V. Rathbun.....	320,690	June 23	2385	630	31	1506
Bone-black drier.....	E. P. Eastwick.....	320,642	June 23	2322	613	31	1493
Bone-black drier.....	S. M. Lillie.....	329,394	Oct. 27	2458	636	33	469
Bone-black kilns. Top plate for.....	E. P. Eastwick.....	316,610	Apr. 28	2239	590	31	425
Bone-black oven.....	G. Murdoch.....	314,866	Mar. 31	2468	639	30	1291
Bones. Machine for cleaning and washing.....	C. Meyer, Jr.....	313,751	Mar. 10	973	251	30	966
Book. Account.....	A. Synold.....	312,226	Feb. 10	1046	286	30	549
Book and copy holder.....	A. Hockett.....	327,622	Oct. 6	247	60	33	43
Book and music clamp.....	J. E. Hunsaker.....	330,402	Nov. 17	1325	352	33	773
Book and music holder.....	C. W. Hutchins.....	319,907	June 9	1278	337	31	1280
Book and paper rack. Folding.....	M. E. McMaster.....	313,223	Mar. 3	266	67	30	886
Book-backing.....	G. A. Schürmann.....	321,142	June 30	2973	787	31	1621
Book binder's gold-saving cleaning-box.....	T. Daniels, Jr.....	325,916	Sept. 8	925	233	32	1193
Book-binder's pallet.....	S. Ault.....	324,289	Aug. 11	1204	328	32	754
Book-binding heading.....	W. Macdonald.....	313,875	Mar. 17	1148	299	30	1007

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Book-binding machine	G. B. Durkee and A. Campbell	330,303	Nov. 10	1173	{ 312 313 314 }	{ 33 }	739
Book-binding. Manufacture of compound fabric for.	S. Barlow	332,778	Dec. 22	2227	587	33	1416
Book. Black-leaf check	T. G. Cooper	323,276	July 28	2543	676	32	487
Book. Black-leaf check	G. Powley	310,311	Jan. 6	200	54	30	38
Book-case	T. J. Fisher	833,210	Dec. 29	2831	741	33	1530
Book-case, &c. Portable	W. H. Lackey	315,301	Apr. 7	439	{ 110 111 }	{ 31 }	80
Book-case. Revolving	G. V. Nauerth	317,175	May 5	335	84	31	584
Book-case. Roller-shelf	W. N. Conant	316,241	Apr. 21	1742	458	31	329
Book. Cashier's and salesman's check	J. A. Guss	310,508	Jan. 6	439	121	30	85
Book. Check	J. C. Hall	320,782	June 23	2493	660	31	1527
Book. Child's copy	H. P. Hurst	310,515	Jan. 6	446	123	30	87
Book-clasp	A. C. Hafely	317,122	May 5	258	64	31	570
Book. Conductor's	M. L. Johnson	329,315	Oct. 27	2447	633	33	463
Book-corner protector	T. F. Martin	318,486	May 26	2078	561	31	931
Book. Copy	J. W. C. Gilman	321,594	July 7	255	68	32	40
Book-cover	T. F. Williamson	324,203	Aug. 11	1097	296	32	734
Book cover or protector	C. Boyce	326,838	Sept. 22	2192	572	32	1439
Book-cover. Removable	J. M. Bronson. (Reissue)	10,615	June 23	2654	{ 704 705 }	{ 31 }	1557
Book-covers. Machine for removing superfluous gold-leaf from	E. Straker	329,863	Nov. 3	592	152	33	615
Book. Duplicating counter-check	J. A. Gebhard and R. N. Barlow	314,602	Mar. 31	2196	583	30	1236
Book-finishing machine	F. W. Davenport	322,526	July 21	1510	{ 397 398 }	{ 32 }	291
Book. Forming a pencil-pocket at the back of a	J. G. Shaw	324,175	Aug. 11	1040	284	32	723
Book-holder	W. H. Cole	324,234	Aug. 11	1132	308	32	741
Book-holder	H. Crocker	314,436	Mar. 24	1889	504	30	1155
Book-holder	H. Crocker	314,437	Mar. 24	1889	504	30	1155
Book-holder	W. R. Field	330,882	Nov. 24	1935	524	33	897
Book-holder	A. A. Fuller	317,937	May 12	1346	362	31	779
Book-holder	W. F. Holloway	318,253	May 19	1766	472	31	866
Book-holder	R. M. Lambie	323,511	Aug. 4	169	49, 50	32	554
Book-holder	L. W. Noyes	311,514	Feb. 3	78	23	30	364
Book-holder	L. W. Noyes	311,515	Feb. 3	80	23	30	364
Book-holder	S. S. Thomas	316,499	Apr. 28	2104	552	31	399
Book holder and carrier	J. Pott, Jr., and E. S. Gorham	313,021	Feb. 24	2125	579	30	764
Book-holders. Swivel for	R. M. Lambie	324,032	Aug. 11	842	233	32	688
Book-leaf holder	J. D. McClure	324,397	Aug. 18	1356	369	32	791
Book-mark	W. F. Clark	332,327	Dec. 15	1585	416	33	1295
Book, &c. Note and memorandum	A. Peeter	325,006	Aug. 25	2194	601	32	932
Book. Press-copying	C. E. Doyle	333,061	Dec. 22	2615	685	33	1486
Book-rack. Folding	W. H. Kelly	318,991	June 2	79	20	31	1062
Book-rack for church-pews, &c.	M. G. Frutchey	316,535	Apr. 28	2144	564	31	407
Book. Railway passenger-tariff and distance guide	S. F. Stevens	310,329	Jan. 6	233	64	30	44
Book. Railway time-table and distance guide	S. F. Stevens	310,330	Jan. 6	234	64	30	45
Book-rest	J. D. McClure	319,105	June 2	213	56	31	1087
Book-rest	W. B. Sollday	324,602	Aug. 18	1625	447	32	841
Book-rest. Adjustable	W. A. Sipe	331,563	Dec. 1	445	115	33	1077
Book rest and holder	H. F. Hendrix	331,057	Nov. 24	2149	583	33	938
Book. Sales	J. R. Carter	333,390	Dec. 29	3071	801	33	1573
Book. Sales	C. W. Earnshaw. (Reissue)	10,619	July 7	722	189	32	131
Book. Scrap	H. A. Hulburd	330,897	Nov. 24	1954	529	33	900
Book. Scrap	C. Patterson	315,327	Apr. 7	470	119	31	86
Book-shelf	C. B. Taylor	332,627	Dec. 15	2006	526	33	1369
Book-support	A. Clarke	329,719	Nov. 3	397	101	33	581
Book-support	A. A. Fuller	319,899	June 9	1268	334	31	1288
Book-support	I. L. Hyde	314,181	Mar. 17	1550	406	30	1071
Books. Binding	A. Brehmer and G. Brown	312,606	Feb. 24	1572	430	30	666
Books. Bindings of	M. Mulqueen	310,051	Apr. 21	1425	388	31	282
Books. Machine for binding	G. Brown and A. Brehmer	312,609	Feb. 24	1576	431	30	666
Books. Machine for rounding the backs of	J. A. Wade and H. D. Stone	317,689	May 12	1022	265	31	717
Books, &c. Temporary cover for	E. J. Trum	324,791	Aug. 18	1890	519	32	890
Boot and shoe insole	G. S. Brown	321,577	July 7	231	61	32	45
Boot	J. R. Dean	310,349	Jan. 6	303	83, 84	30	50
Boot	J. F. Shaw	331,561	Dec. 1	442	115	33	1076
Boot	G. Valiant	330,945	Nov. 24	2020	546	33	913
Boot	G. Valiant. (Reissue)	10,660	Dec. 1	762	192	33	1134
Boot and shoe burnishing machine	W. R. Albertson	310,166	Jan. 6	5	2	30	4
Boot and shoe cabinet	W. Denton	332,238	Dec. 15	1470	383	33	1275
Boot and shoe cleaner	S. J. and M. G. Rhoads	312,764	Feb. 24	1779	490	30	703
Boot and shoe crimping machine	J. W. D. Fifield and W. H. Holt	329,033	Oct. 27	2046	531	33	394
Boot and shoe edge trimming machines. Cutter-head for	C. A. Gilman	321,357	June 30	3240	864	31	1672
Boot and shoe heels. Machine for nailing on	L. Coté	310,582	Jan. 13	517	142	30	105
Boot and shoe heels. Machine for pricking	T. P. King	315,636	Apr. 14	920	241	31	171
Boot and shoe lasting machine	G. W. Copeland	329,280	Oct. 27	2392	{ 619 620 }	{ 33 }	458
Boot and shoe lasting tool	G. W. Copeland	329,278	Oct. 27	2389	618	33	457
Boot and shoe lasts. Measurement-indicator of	J. Kimball	331,143	Nov. 24	2279	618	33	961
Boot and shoe nailing machine	E. B. Allen	332,032	Dec. 8	1167	{ 305 306 }	{ 33 }	1215
Boot and shoe nailing machine	H. S. Bacon	319,773	June 9	1081	287	31	1256
Boot and shoe nailing machine	W. S. Fitzgerald	324,312	Aug. 11	1239	337	32	761
Boot and shoe pattern	J. G. Lynn	320,149	June 16	1615	410	31	1357
Boot and shoe sole plate	J. Borrett	320,328	June 16	1884	494	31	1404
Boot and shoe soles. Machine for cutting	J. J. Breach	318,540	May 26	2160	{ 581 582 }	{ 31 }	946
Boot and shoe stretcher	W. Jones	319,585	June 9	837	222	31	1211
Boot and shoe stretcher	W. Jones	321,610	July 7	275	73	32	53
Boot. Cloth	E. E. Hall	311,123	Jan. 20	1267	347	30	247

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Boot-jack	E. Harris	330,480	Nov. 17	1425	381	33	799
Boot-jack	H. Lightwardt, Jr.	329,576	Nov. 3	911	55	33	545
Boot-jack	N. J. Shalz	332,015	Dec. 8	1136	296	33	1210
Boot machine. Felt.	W. A. Smith	343,457	Aug. 4	94	27, 28	31	540
Boot or shoe	P. C. Brown	318,949	June 2	16	5	31	1051
Boot or shoe	G. Castle	317,724	May 12	1061	376	31	725
Boot or shoe	G. W. Day	329,030	Nov. 3	261	73	33	556
Boot or shoe	P. Fischer	331,200	June 30	3048	808	31	1636
Boot or shoe	W. C. Gillman	330,468	June 23	3065	552	31	1452
Boot or shoe	J. Hansen	312,117	Feb. 10	888	242	30	521
Boot or shoe	H. W. Joslin	329,049	Oct. 27	2970	537	33	396
Boot or shoe	W. T. Martin	316,158	Apr. 21	1641	429	31	311
Boot or shoe	R. R. Mathews	330,912	Nov. 24	1976	534	33	904
Boot or shoe	T. P. Mitchell	322,467	July 21	1425	373	32	275
Boot or shoe	L. E. Moore	317,562	May 12	833	219	31	696
Boot or shoe	J. H. O'Donnell	332,423	Dec. 15	1723	452	33	1319
Boot or shoe	A. Seaver	314,302	Mar. 24	1718	456	30	1122
Boot or shoe	J. B. Turner	312,675	Feb. 24	1660	457	30	692
Boot or shoe	G. Valiant	330,944	Nov. 24	2019	546	33	913
Boot or shoe	A. Van Wagenen	317,477	May 5	745	188	31	658
Boot or shoe	M. Walker	330,176	Nov. 10	1016	265	33	706
Boot or shoe	S. A. West	315,869	Apr. 14	1236	322	31	231
Boot or shoe	S. F. Whittlesey	328,267	Oct. 13	979	255	33	186
Boot or shoe and welt therefor	W. B. Arnold	324,352	Aug. 18	1295	352	32	760
Boot or shoe brace	J. C. Awalt	316,930	May 5	2	1	31	523
Boot or shoe burnishing machine.	C. J. Blakely	323,901	Aug. 11	676	189	32	637
Boot or shoe calk	W. Rosenfield	327,596	Oct. 6	124	29	33	24
Boot or shoe cork sole	R. E. Foster	313,817	Mar. 10	1056	272	30	969
Boot or shoe counter-stiffener	J. Kieffer	312,129	Feb. 10	902	246	30	524
Boot or shoe edge trimmer	S. K. Knox	312,360	Feb. 17	1239	341	30	593
Boot or shoe heel	B. F. Hall	316,456	Apr. 28	2047	537	31	368
Boot or shoe heel	J. C. Jensen	311,005	Jan. 20	1101	301	30	218
Boot or shoe heel	E. J. Le Gay	324,127	Aug. 11	975	268	32	712
Boot or shoe heel	M. Rachler and I. Rothziegel	317,575	May 12	872	224	31	699
Boot or shoe heel	W. W. Wallace	321,860	July 7	637	165	32	116
Boot or shoe heel and guard	I. S. Brewster	318,446	May 26	2029	547	31	922
Boot or shoe heel mold	E. J. Le Gay	328,124	Oct. 13	804	209	33	152
Boot or shoe heel nailing machine	E. B. Allen	310,498	Jan. 6	414	113	30	80
Boot or shoe heel nailing machine	E. J. Le Gay	313,345	Mar. 3	436	110	30	257
Boot or shoe heel plate	W. E. Quiggle	317,014	May 5	113	29	31	543
Boot or shoe heels. Cutter-head for trimming	B. Gallagher	330,008	Nov. 10	794	204	33	650
Boot or shoe heels. Machine for attaching	J. Tingley	324,279	Aug. 11	1193	724	32	759
Boot or shoe heels. Manufacturing and attaching	G. T. Demary	321,696	July 7	384	102	32	72
Boot or shoe heels. Mold for forming	E. J. Le Gay	322,301	July 14	1194	313	32	227
Boot or shoe inner sole	G. W. Day	315,254	Apr. 7	382	95	31	69
Boot or shoe inner sole	C. J. Schmid	318,209	May 19	1711	458	31	855
Boot or shoe insole	C. F. Bosworth	330,289	Nov. 10	1158	308	33	734
Boot or shoe insole	L. P. Hawkins	316,780	Apr. 28	2492	650	31	471
Boot or shoe jack	Z. Beaudry	310,667	Apr. 28	2617	662	31	494
Boot or shoe jack	A. L. F. Mitchell	310,532	Jan. 6	470	129	30	91
Boot or shoe last	E. S. Kingston. (Reissue)	10,630	July 28	2709	721	32	516
Boot or shoe lasting machine	F. Chase	319,784	June 9	1097	291	31	1256
Boot or shoe lasting machine	J. E. Crisp and G. W. Copeland	329,367	Oct. 27	2533	653	33	482
Boot or shoe lasting machine	C. Dancel	312,335	Feb. 17	1202	329	30	587
Boot or shoe. Machine-sewed	L. Day	318,878	May 26	2616	695	31	1027
Boot or shoe. Machine-sewed	W. A. Knipe	319,269	June 2	406	107	31	1124
Boot or shoe maker's use. Combination-tool for	T. E. Tateum	322,503	Nov. 3	105	27	33	525
Boot or shoe nail	F. F. Raymond, 2d.	326,782	Sept. 22	2116	550	32	1425
Boot or shoe nailing machine	A. Cavalli	310,932	Jan. 20	993	270	30	197
Boot or shoe nailing machine	W. P. Hopkins	331,299	Dec. 1	58	14	33	1010
Boot or shoe protector	T. Gribble and R. Abraham	328,844	Oct. 20	1753	456	33	335
Boot or shoe. Rubber	G. Watkinson	322,924	July 14	1106	287	32	910
Boot or shoe shank stiffener	A. Hummer	318,562	May 26	2203	588	31	952
Boot or shoe sole	L. E. Moore	328,421	Oct. 13	1201	310	33	227
Boot or shoe sole	G. B. Selgenthaler	330,625	Nov. 17	1597	497	33	896
Boot or shoe sole	J. E. Tilton	331,462	Dec. 1	299	80	33	1051
Boot or shoe sole and heel	G. F. Butterfield	326,476	Sept. 15	1667	435	32	1338
Boot or shoe soles and uppers. Machine for uniting	S. W. Robinson	325,274	Sept. 1	55	17, 18	34	1026
Boot or shoe soles. Attaching	F. F. Raymond, 2d.	326,150	Sept. 15	1238	317	32	1257
Boot or shoe soles. Machine for channeling	J. G. Ross	330,928	Nov. 24	2001	540	33	909
Boot or shoe soles. Machinery for embossing and ornamenting	W. D. Hall	315,775	Apr. 14	1114	292	31	209
Boot or shoe soles. Tool for channeling	J. S. Leavitt	331,145	Nov. 24	2224	619	33	961
Boot or shoe soles. Tool for channeling	J. G. Ross	331,214	Nov. 24	2787	645	33	979
Boot or shoe soles. Tool for feather-edging	E. F. Blossom	316,726	Apr. 28	2423	631	31	458
Boot or shoe soles. Tool for piercing holes in	G. F. Seaver and C. G. Mork	326,160	Sept. 15	1252	320	32	1260
Boot or shoe spring-heel	G. E. Swan	323,971	Aug. 11	763	213	32	674
Boot or shoe stiffeners. Machine for manufacturing	J. M. Willoughby	319,673	June 9	1230	394	31	1260
Boot or shoe strap	J. Walden	331,927	Dec. 8	1016	264	33	1128
Boot or shoe stretcher	J. K. Brown	328,642	Oct. 20	1505	392	33	228
Boot or shoe tap	W. Quinlan	315,068	Apr. 7	115	27	31	23
Boot or shoe tip and stud	G. Chambers	326,844	Sept. 22	2200	574	32	1441
Boot or shoe. Turned	C. N. Hoyt	311,003	Jan. 20	1099	300	30	917
Boot or shoe upper	T. Nally	325,561	Sept. 1	463	116	32	1104
Boot or shoe uppers. Crimping-machine for	L. Knetzer	323,815	Aug. 4	554	157	32	627

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. r.	Vol.	Page.
Boot or shoe uppers for lasting. Preparation of	J. Green	319,609	June 9	982	260	31	1238
Boot or shoe uppers. Lasting	W. C. Cross	324,304	Aug. 11	1294	333	32	758
Boot or shoe uppers. Machine for stretching	A. F. Preston	325,567	Sept. 1	469	117	32	1105
Boot or shoe uppers. Pattern for	O. J. Walp and A. R. Leavitt	313,635	Mar. 10	800	212	30	936
Boot or shoe ventilator	A. J. Traak	311,046	Jan. 20	1157	315	30	228
Boot. Quarter	T. Golden. (Reissue)	10,587	Apr. 28	9711	706	31	511
Boot-strap	J. M. Wilkinson	326,187	Sept. 15	1294	335	32	1268
Boot-tree	G. D. Bateman	319,667	June 9	942	249	31	1231
Boot-tree	A. D. Tyler, Jr.	317,476	May 5	744	168	31	657
Boot-tree	A. D. Tyler, Jr.	319,354	June 2	508	139	31	1145
Boot-tree	A. D. Tyler, Jr.	319,355	June 2	510	139	31	1145
Boot-tree	A. D. Tyler, Jr.	319,356	June 2	511	139	31	1145
Boot-treeing machine	J. Call	324,982	Aug. 25	2135	589	32	946
Boots and shoes. Heel-band for	G. Castle	325,730	Sept. 8	694	173	32	1149
Boots and shoes. Machine for uniting soles to up- pers of	F. Chase	320,249	June 23	2575	681	31	1543
Boots and shoes. Mold for making rubber	P. Wren	311,458	Jan. 27	1744	475	30	341
Boots, &c. Composition of material for damp-proof socks or soles for	R. J. Baggeley	315,885	Apr. 14	1261		31	235
Boots. Drying rubber	R. Meredith	314,400	Mar. 24	1914	511	30	1160
Boots. Making combined knit and felt.	S. G. Alexander	318,342	May 19	1896	511	31	889
Boots or shoes. Device for holding	J. P. Kelly	330,902	Nov. 24	1960	531	33	901
Boots or shoes. Device for putting on	C. Blohm	312,921	Feb. 17	1186	324	30	584
Boots or shoes for buttons and button-holes. Ma- chine for marking the quarters of	A. F. Preston	317,416	May 5	660	168	31	643
Boots or shoes for lasting. Preparing the uppers of.	W. C. Cross	313,301	Mar. 3	335	95	30	846
Boots or shoes for the buttons. Machine for mark- ing the quarters of	A. F. Preston	318,390	May 19	1957	527	31	900
Boots or shoes. Lasting	W. C. Cross. (Reissue)	10,642	Sept. 1	567	144	32	1122
Boots or shoes. Machine for uniting the soles and uppers of	H. P. Fairfield	329,031	Oct. 27	2041	530	33	303
Boots or shoes. Manufacture of	G. Boivin	321,182	June 30	3022	800	31	1630
Boots or shoes. Manufacture of	G. W. Day	325,240	Sept. 1	11	4	32	1017
Boots or shoes. Manufacture of	A. Hannibal	313,727	Mar. 10	938	242	30	960
Boots or shoes. Manufacturing	J. G. Ross	332,362	Dec. 15	1641	430	33	1305
Boots or shoes. Metallic sole for	W. T. Millholland	330,140	Nov. 10	974	253	33	698
Boots or shoes. Nailing apparatus for lasting	M. Brock	312,550	Feb. 17	1501	409	30	643
Boots or shoes. Press for forming heels for india- rubber	W. E. Kelly	319,266	June 2	402	107	31	1124
Boots or shoes. Rubber sole for	L. and J. W. Haylock	328,777	Oct. 20	1665	434	33	319
Boots or shoes. Spring-shank for	C. E. Andrews	324,065	Aug. 11	894	247	32	696
Boots or shoes. Toe and instep stretcher for	C. S. Case	310,780	Jan. 6	923	81	30	56
Boots, shoes, &c. Machine for hardening seamless felt	W. P. Hyatt	332,659	Dec. 15	2057	540	33	1378
Boots, shoes, &c. Machine for making felt	L. Ruel	324,340	Aug. 11	1276	346	32	768
Boring and reaming tool. Combined	W. E. Hill	312,350	Feb. 17	1230	338	30	592
Boring-bar	L. R. Faught	311,632	Feb. 3	254	71	30	396
Boring-bar and centering-mandrel. Combined	P. W. Gates	315,971	Apr. 7	404	100	31	73
Boring bit or auger	L. M. Foster	324,763	Aug. 18	1854	510	32	883
Boring device	J. B. Davis	313,405	Mar. 3	512	134	30	872
Boring doors for locks. Guide for	C. F. Nichols	310,710	Jan. 13	708	193	30	140
Boring-machine	J. P. Cobb	324,920	Aug. 25	2070	566	32	930
Boring-machine	S. F. Cohn	326,202	Sept. 15	1313	340	32	1272
Boring-machine	J. Ernst	324,100	Aug. 11	936	258	32	704
Boring-machine	L. G. McKnight and H. C. Knowlton	328,966	Oct. 27	1939	505	33	375
Boring-machine	E. H. Parks	323,723	Aug. 4	443	126	32	606
Boring-machine. Gang-bit	E. B. Hayes	314,124	Mar. 17	1480	386	30	1068
Boring-tools. Making twisted	C. Robin	319,027	June 2	116	31	31	1069
Bosom-board	J. A. Emmert	322,703	July 21	1744	460	32	334
Bosom-board	S. J. Lackey	325,346	Sept. 1	153	42	32	1044
Bosom-board	J. Wehrle	313,267	Mar. 3	337	83	30	838
Bosom-board	F. M. Wright	314,211	Mar. 17	1583	419	30	1087
Bosom. Detachable	G. W. Lee	310,691	Jan. 13	683	188	30	136
Bosom-pad	J. L. Wells	325,030	Aug. 25	2220	609	32	958
Bosom-tab-folding machine	G. E. Norris	322,551	July 21	1537	405	32	296
Bottle	L. S. Hoyt	316,460	Apr. 28	2053	538	31	389
Bottle and can washer	H. Koethe	330,335	Nov. 10	1213	325	33	746
Bottle and jar stopper and fastener	E. Haas	313,588	Mar. 10	752	198	30	926
Bottle and stopper	H. Cochrane and J. M. Day	313,059	Mar. 3	33	8	30	784
Bottle cap. Mustard	F. Wolff	327,635	Oct. 6	124	45	33	33
Bottle-cork attachment	J. W. Hayward	328,672	Oct. 20	1544	402	33	295
Bottle-cover	W. H. Redington	310,615	Jan. 13	584	161	30	118
Bottle cover. Siphon	C. T. Grosjean	312,562	Feb. 17	1519	414	30	640
Bottle-covers from tulle. Machine for the manufac- ture of	E. K. Cooley	332,640	Dec. 15	2026	531	33	1372
Bottle drink-register	G. Weltzel	327,364	Sept. 29	2299	757	32	1571
Bottle-filler	L. B. Harner and W. G. Loach	325,929	Sept. 8	939	238	32	1196
Bottle-filling machine	H. Will	314,280	Mar. 24	1681	448	30	1115
Bottle-forming tool	W. L. Roorbach	316,932	Apr. 28	2564	671	31	485
Bottle. Ink	M. H. Kerner	322,122	Oct. 13	802	209	33	152
Bottle. Ink	L. H. Thomas	331,643	Dec. 8	890	230	33	1165
Bottle irrigating attachment	A. B. Tutton	330,755	Nov. 17	1771	477	33	859
Bottle. Mucilage	E. R. Caboose	326,949	Sept. 20	2375	616	32	1475
Bottle. Mucilage	W. H. Redington	311,849	Feb. 3	499	136	30	442
Bottle. Mucilage	W. H. Redington	325,970	Sept. 8	994	253	32	1206
Bottle-nozzle	S. B. Oplyke	332,281	Dec. 15	1525	400	33	1285
Bottle. Nursing	W. R. Prime	323,797	Aug. 4	224	82	32	574

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bottle-packing case	C. H. Royce	323,912	July 28	2460	654	32	473
Bottle-sheath	C. H. Bangs	328,450	Oct. 30	1238	321	33	241
Bottle. Siphon	T. Bergmann	320,751	June 23	2435	651	31	1521
Bottle stand or casing	C. S. Eleton and A. Maleville	327,225	Sept. 29	2714	706	32	1540
Bottle-stopper	J. Alsfasser	324,449	Aug. 18	1424	359	32	802
Bottle-stopper	H. Barrett	311,023	Nov. 24	2112	572	33	931
Bottle-stopper	W. Beardsley	317,705	May 12	1041	270	31	721
Bottle-stopper	H. P. Brooks	319,554	June 9	793	210	31	1203
Bottle-stopper	F. Burns	312,328	Feb. 17	1193	326	30	585
Bottle-stopper	J. Byrne	320,457	June 23	2083	549	31	1450
Bottle-stopper	G. W. Canterbury	326,272	Sept. 15	1412	367	32	1229
Bottle-stopper	W. H. Clarke	314,110	Mar. 17	1458	381	30	1065
Bottle-stopper	G. D. Corey	310,990	Jan. 20	1079	294	30	213
Bottle-stopper	G. D. Corey	312,095	Feb. 10	860	235	30	516
Bottle-stopper	G. D. Corey	312,096	Feb. 10	861	236	30	516
Bottle-stopper	S. G. Derham	319,076	June 2	179	48	31	1021
Bottle-stopper	F. J. Deverall	313,926	Mar. 17	1231	320	30	1021
Bottle-stopper	L. Ehrlich	322,702	July 21	1743	460	32	333
Bottle-stopper	J. M. and M. L. S. Escorbia	325,064	Aug. 25	2266	623	32	967
Bottle-stopper	L. S. Hoyt	314,025	Mar. 17	1348	351	30	1045
Bottle-stopper	L. S. Hoyt	314,179	Mar. 17	1549	406	30	1080
Bottle-stopper	A. F. Kent	315,797	Apr. 14	1139	299	31	214
Bottle-stopper	L. Kirchner	329,652	Nov. 3	305	78	33	562
Bottle-stopper	C. Lange	319,981	June 16	1389	366	31	1317
Bottle-stopper	B. B. Lewis	329,574	Nov. 3	900	55	33	544
Bottle-stopper	E. L. Lloyd	325,181	Aug. 25	2415	663	32	994
Bottle-stopper	A. Luedemann	329,920	Nov. 10	671	172	33	637
Bottle-stopper	C. L. Morehouse	310,304	Jan. 6	192	52	30	37
Bottle-stopper	C. L. Morehouse	314,703	Mar. 31	2943	506	30	1345
Bottle-stopper	E. H. Morgan	321,236	June 30	3089	820	31	1643
Bottle-stopper	S. S. Newton	327,818	Oct. 6	408	106	33	72
Bottle-stopper	S. B. Opdyke	321,446	July 7	53	16	32	12
Bottle-stopper	W. Painter	324,040	Aug. 11	855	237	32	690
Bottle-stopper	W. Painter	327,099	Sept. 29	2534	666	32	1510
Bottle-stopper	J. Recktenwalt	328,520	Oct. 30	1317	342	33	256
Bottle-stopper	W. L. Roorbach	320,701	June 23	2396	634	31	1508
Bottle-stopper	W. L. Roorbach	323,737	Aug. 4	463	131	32	610
Bottle-stopper	W. Stewart	320,189	June 16	1665	443	31	1367
Bottle-stopper	C. M. Taylor	328,533	Oct. 30	1338	348	33	259
Bottle-stopper	F. B. Thatcher	313,253	Mar. 3	323	79	30	831
Bottle-stopper	H. C. Walter	310,756	Jan. 13	764	207	30	150
Bottle-stopper	W. Ward	330,812	Nov. 17	1841	496	33	872
Bottle-stopper and fastener	C. J. Jordan	326,656	Sept. 22	1911	502	32	1389
Bottle-stopper and fancet. Combined	J. D. Mattison	311,080	Jan. 30	1214	332	30	228
Bottle-stopper. Automatic	S. B. Opdyke	321,447	July 7	51	15	32	12
Bottle-stopper fastener	F. McArdle	319,500	June 9	722	194	31	1190
Bottle-stopper fastener	W. Painter	315,655	Apr. 14	941	247	31	176
Bottle-stopper fastener	A. F. Parkhurst	319,504	June 9	726	194	31	1191
Bottle-stopper fastener	J. T. Walker	315,576	Apr. 14	845	222	31	157
Bottle-stopper fastening	L. Kalling, Jr	330,712	Nov. 17	1708	461	33	848
Bottle-stopper fastening	L. Kalling, Jr	332,083	Dec. 8	1245	325	33	1229
Bottle-stopper. Internal	J. Terry	320,098	June 16	1544	408	31	1345
Bottle-stopper. Internal	J. Terry	320,192	June 16	1668	443	31	1367
Bottle-stopper. Removable	J. Terry	320,191	June 16	1667	443	31	1367
Bottle-stopper. Removable internal	E. S. Piper	318,290	May 19	1813	485	31	675
Bottle-stoppers. Seating for	J. J. Varley	325,776	Sept. 8	758	129	32	1162
Bottle-stoppers. Wiring for	R. L. Howard	321,607	July 7	271	72	32	52
Bottle-stopper. Flexible	L. S. Hoyt	311,834	Feb. 3	480	131	30	439
Bottle-top	L. S. Hoyt	311,431	Jan. 27	1714	466	30	335
Bottle-top. Nursing	C. T. Grosjean	322,370	July 14	1288	337	32	245
Bottle-washer	W. W. Tumbleson	329,103	Oct. 27	2144	554	33	411
Bottle-washer	T. Davies	327,071	Sept. 29	2505	654	32	1502
Bottle-washer	J. M. and W. G. Hoyt	329,390	Oct. 27	2566	662	33	428
Bottle-washer	H. P. Merriam	321,128	June 30	2956	763	31	1617
Bottle-washing apparatus	A. L. Bernardin	332,582	Dec. 15	1951	511	33	1358
Bottle-washing machine	A. E. Rich	332,437	Dec. 15	1741	455	33	1322
Bottle-washing machine	A. R. Weiss	329,109	Oct. 27	2154	558	33	412
Bottle-wiring-machine attachment	F. Neumer	331,547	Dec. 15	1899	496	33	1349
Bottles, cans, &c. Closure for	E. Schmitz	330,428	Nov. 17	1354	361	31	779
Bottles. Cleaning	R. Robinson	322,644	July 21	1660	439	32	318
Bottles, &c. Closing apparatus for	H. Spriegel	320,715	June 23	2413	639	31	1512
Bottles. Combined metallic cap and fastener for	A. L. Bernardin	314,358	Mar. 24	1787	475	30	1135
Bottles. Combined metallic cap and fastener for	A. L. Bernardin	314,359	Mar. 24	1788	475	30	1136
Bottles containing aerated liquids and fitted with internal stoppers. Apparatus for opening	H. Codd	326,630	Sept. 22	1879	492	32	1382
Bottles. Machine for wiring the corks in	O. C. Carpenter	318,955	June 2	31	2,9	31	1054
Bottles. Machinery for drilling holes in	D. Rylands	320,505	June 23	2142	565	31	1460
Bottles. Time dose-indicator for	J. S. Noel	332,208	Dec. 8	1423	307	33	1260
Bottles. Valve-stopper for perfume and other	I. W. Heyssinger	316,147	Apr. 21	1024	425	31	308
Bottles with aerated beverages. Filling	J. Matthews	311,998	Feb. 10	732	200	30	491
Bottles with highly-aerated liquids without pressure. Apparatus for filling	A. Werner	323,612	Aug. 4	300	86	32	578
Bottles. Wiring for securing stoppers to	R. L. Howard	329,160	Oct. 27	2235	579	33	427
Bottling-machine	J. A. Brown	322,576	July 21	1581	416	32	302
Bottling-machine	R. Shay	324,494	Aug. 18	1429	406	32	813
Bottling-machine	H. C. Walter	330,178	Nov. 10	1019	266	33	707
Bottling-machine	H. Will	331,354	Dec. 1	135	33	33	1022
Bottling-machine screen attachment	F. Seely	326,079	Sept. 22	1945	511	32	1395
Bouquet-fastening	M. Milne	325,853	Sept. 8	853	214	32	1179
Bouquet-holder	M. L. Cardell	314,426	Mar. 24	1872	498	30	1152
Bouquet-holder	M. L. Cardell	311,614	Dec. 1	563	137	33	1086
Bouquet-holder	M. H. Jones	317,650	May 12	971	250	31	707

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bow and arrow. Cross.....	J. Almond.....	315,878	Apr. 14	1251	326	31	233
Bowl. Wash.....	H. C. Lowrie.....	327,094	Sept. 29	2546	{ 663 } 664	32	1509
Bowling-hoop.....	J. H. Venners.....	324,344	Aug. 11	1284	348	32	769
Box:							
See Artist's sketch-box. Mail-box.							
Axle-box. Match-box.							
Ballot-box. Meat and oil press box.							
Blacking-box. Miter-box.							
Butter-packing box. Music-box.							
Button-fastener. Oil-expressing box.							
packing-box. Oil-press box.							
Cash-box. Packing-box.							
Cigar-box. Paper-box.							
Coffee and tea box. Paper package-box.							
Egg-box. Pile-box.							
Embroidery show-box. Post-office distribution and delivery box.							
Fare-box. Poultry-scalding box.							
Feed-box. Sample-box.							
File-box. Saving-box.							
Fire-box. Shipping-box.							
Fire-alarm box. Show-box.							
Fire-alarm signal-box. Sludge-box.							
Fishing-tackle box. Sprinkling-box.							
Flour-box. Squib, match, and touch-paper safety-box.							
Folding box. Stop-box.							
Fruit-box. Stuffing-box.							
Garbage-box. Tape-line box.							
Guide-box. Telegraph call-box.							
Horseshoer's box. Tobacco-box.							
Hub-boring box. Toilet-powder box.							
Ice-cream box. Traveling-box.							
Jewel-box. Tree-box.							
Jeweler's dust-box. Valve-box.							
Knockdown box. Wagon-box.							
Letter-box. Watch-movement box.							
Lunch-box. Window-seat box.							
Machine-box.							
Box.....	E. Andrews.....	329,875	Nov. 10	620	157	33	627
Box.....	J. P. Buckingham.....	325,729	Sept. 8	693	173	32	1149
Box.....	E. J. Davis.....	313,814	Mar. 10	1053	270	30	981
Box.....	G. A. Dugway.....	316,447	Apr. 28	2 39	534	31	387
Box.....	J. Flynn.....	312,713	Feb. 24	1712	471	30	691
Box.....	G. W. Miller.....	331,076	Nov. 24	2177	501	33	943
Box.....	A. Saupiquet.....	321,056	June 30	2858	760	31	1601
Box-corner fastener.....	C. T. Remus.....	329,081	Oct. 27	2119	549	33	406
Box-fastener.....	E. Andrews.....	314,641	Mar. 31	2170	576	30	1231
Box-fastener.....	E. Andrews.....	329,614	Nov. 3	261	67	33	555
Box-fastener.....	F. W. Beckwith.....	316,598	Apr. 28	2224	585	31	423
Box-fastener.....	O. N. Brainerd.....	323,106	July 28	2213	612	32	444
Box-fastener.....	T. F. Conklin.....	328,463	Oct. 20	1252	326	33	244
Box-fastener.....	S. B. Dunn.....	313,857	Mar. 17	1121	291	30	1002
Box-fastener.....	H. Krog, Sr.....	317,146	May 5	929	74	31	576
Box-fastener.....	E. W. Kuchn.....	330,986	Nov. 24	2073	562	33	923
Box-fastener.....	I. J. Miller.....	318,781	May 26	240	664	31	1003
Box-fastener.....	H. F. Moeller.....	311,910	Feb. 10	604	166	30	468
Box-fastener.....	M. Moran.....	328,422	Oct. 13	1202	311	33	227
Box-fastener.....	C. R. Nelson.....	321,628	July 7	295	78	32	56
Box-fastener.....	G. S. Randall.....	316,823	Apr. 28	2547	666	31	481
Box-fastener.....	J. L. Stevens.....	316,412	Apr. 21	1978	519	31	370
Box-fastener.....	J. F. Whittingham.....	324,201	Aug. 11	1095	295	32	734
Box-fastener.....	G. Wilson.....	319,651	June 9	926	245	31	1227
Box-fastening.....	W. S. Thayer.....	322,868	July 21	1967	521	32	373
Box for bottled liquids.....	P. and R. P. Aitchison.....	323,456	Aug. 4	130	37	32	546
Box for cigars, &c.....	E. Pisko.....	310,654	Apr. 28	2295	602	31	435
Box-loop.....	R. A. Dunning.....	316,448	Apr. 28	2041	535	31	387
Box-nailing machine.....	G. Lines and A. Bridgman.....	318,918	May 26	2665	{ 706 } 707	31	1036
Box-opener.....	E. Krieker.....	320,909	Sept. 22	2296	600	32	1456
Box-opener.....	F. L. Perry.....	327,621	Oct. 6	413	107	33	72
Box or trunk fastener or catch.....	H. A. Seymour.....	323,830	Aug. 4	574	162	32	631
Box-pulling attachment.....	H. Wixon and G. Menard.....	322,031	July 14	855	223	32	163
Box-strap.....	H. Frank.....	332,795	Dec. 22	2248	592	33	1420
Box-supporter.....	D. W. Marmon.....	318,384	May 19	1950	526	31	599
Box-toes. Machine for forming.....	T. F. Tyler and E. H. Taylor.....	316,082	Apr. 21	1530	399	31	290
Box-ventilator.....	W. T. Atterbury.....	332,633	Dec. 15	2015	529	33	1370
Boxes, bales, &c. Band for strapping.....	G. Nicholson.....	315,438	Apr. 7	630	162	31	112
Boxes, &c. Composition of matter for lining or coating.....	A. Hollner.....	320,115	Sept. 15	1185		32	1248
Boxes. Device for handling.....	A. Ayer.....	323,844	Aug. 4	593	167	32	635
Boxes or crates. Binding for.....	W. F. Redding.....	325,969	Sept. 8	993	253	32	1206
Brace:							
See Bed-rail brace. Rail-brace.							
Bedstead-brace. Railway-rail brace.							
Bit-brace. Ratchet-brace.							
Boot or shoe brace. Trunk-brace.							
Dental jaw-brace. Vehicle-brace.							
Drilling-brace. Vehicle-spring brace.							
Brace.....	C. Snedekum.....	319,430	June 2	612	{ 165 } 166	31	1164
Bracelet.....	H. E. Chadwick.....	322,901	July 28	2021	534	32	390
Bracelet.....	H. E. Chadwick.....	331,033	Nov. 24	2124	575	33	933

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr-g.	Vol.	Page.
Bracelet.....	D. E. Coddington and O. H. Atwood.....	310,795	Jan. 13	812	220	30	159
Bracelet.....	S. Cottle.....	311,722	Feb. 3	337	93	30	412
Bracelet.....	T. Lebkuecher.....	324,125	Aug. 11	973	268	32	712
Bracelet.....	B. B. Lederer.....	319,273	June 2	410	109	31	1125
Bracelet.....	P. Lettré.....	331,798	Dec. 8	818	208	33	1152
Bracelet.....	H. Liebel.....	322,061	July 14	695	232	32	171
Bracelet.....	C. S. Pine.....	333,083	Dec. 22	2649	624	33	1492
Bracelet.....	F. F. Tingley.....	326,606	Sept. 22	1846	494	32	1377
Bracelet.....	A. Vester.....	313,036	Feb. 24	2143	539	30	767
Bracelet, Chain.....	F. F. Heilborn.....	312,994	Feb. 24	2079	567	30	756
Bracelet, Chain.....	W. I. Macomber.....	315,525	Apr. 14	764	202	31	142
Bracelet-clasp.....	H. A. Church.....	320,220	June 16	1707	454	31	1274
Bracelet-clasp.....	S. Wallace. (Reissue).....	10,552	Jan. 13	903	245	30	176
Bracelet-clasp.....	W. E. Willis.....	331,664	Dec. 1	631	155	33	1108
Bracelet-clasp fastening.....	G. W. Washburn.....	321,066	June 30	2880	766	31	1605
Bracelet, Self-closing.....	H. Liebel.....	332,719	Dec. 22	2156	569	33	1401
Bracelet-slide.....	H. A. Church.....	316,235	Apr. 21	1735	455	31	328
Bracelet, Spring-hinged.....	P. Lettré.....	318,379	May 19	1944	524	31	898
Bracket:							
See Adjustable bracket.	Mirror-bracket.						
Clothes-bracket.	Roofing-bracket.						
Curtain-bar bracket.	Scaffold-bracket.						
Curtain-pole-bracket.	Shelf-bracket.						
Gas and lamp bracket.	Shelving-bracket.						
Ladder-bracket.	Shingle or roof bracket.						
Lamp-bracket.	Shingling-bracket.						
Locking-bracket.	Staging-bracket.						
	Wall-bracket.						
Bracket.....	G. E. Banblits.....	318,343	May 19	1898	511	31	889
Bracket.....	L. Bridge.....	330,672	Nov. 17	1658	446	33	839
Bracket.....	B. F. Caldwell.....	325,196	Aug. 25	2434	669	32	996
Bracket.....	G. B. N. Dow.....	331,187	Nov. 24	2346	635	33	973
Bracket.....	W. S. How.....	313,937	Mar. 17	1244	323	30	1024
Bracket.....	J. A. Van Kirk.....	327,839	Oct. 6	435	113	33	76
Bracket-arm.....	C. Hollweg.....	330,587	Nov. 17	1551	415	33	816
Bracket-seat.....	O. E. Briggs.....	315,598	Apr. 14	867	228	31	161
Brad-driver.....	W. P. Ginter.....	312,199	Feb. 10	1011	275	30	543
Braid-board.....	C. E. Barnes.....	332,038	Dec. 8	1177	308	33	1217
Braiding-machine.....	H. W. Winans.....	313,905	Mar. 17	1186	308	30	1014
Brake:							
See Air-brake.	Machine-brake.						
Air or steam brake.	Marine brake.						
Atmospheric brake.	Sled-brake.						
Car-brake.	Steam and air brake.						
Elevator-brake.	Vehicle-brake.						
Elevator safety-brake.	Velocipede-brake.						
Horse-power brake.	Wagon-brake.						
Line-reel brake.	Wagon and carriage brake.						
Locomotive-brake.							
Brake-block.....	R. S. C. Herrman.....	332,693	Dec. 15	2106	556	33	1387
Brake-block.....	H. C. Newton.....	317,177	May 5	337	85	31	585
Brake-block holder.....	D. Hedrick.....	322,099	July 14	945	245	32	180
Brake-governor. Automatic.....	G. H. Poor.....	317,572	May 12	868	222	31	688
Brake-governor. Automatic.....	G. H. Poor.....	318,021	May 19	1470	383	31	810
Brake head and shoe.....	J. J. Lappin.....	331,894	Dec. 8	963	249	33	1178
Brake-lever.....	A. W. Hamaker.....	314,331	Mar. 24	1751	467	30	1198
Brake-lever.....	G. M. Huffman.....	314,579	Mar. 31	2087	557	30	1216
Brake-lever.....	T. Pinard.....	332,434	Dec. 15	1736	454	33	1321
Brake-lever.....	W. H. H. Powell and J. T. Grimm.....	328,971	Oct. 27	1852	506	33	378
Brake-lever.....	E. B. C. Willison.....	323,964	Aug. 11	790	220	32	679
Brake-shoe.....	R. N. Allen.....	315,213	Apr. 7	335	81	31	60
Brake-shoe.....	J. J. Lappin.....	312,734	Feb. 24	1737	478	30	685
Brake-shoe.....	J. J. Lappin.....	324,851	Aug. 25	1981	544	32	914
Brake-shoe.....	J. J. Lappin.....	329,459	Nov. 3	38	11	33	512
Brake-shoe.....	J. C. Larkin.....	319,731	June 9	1028	272	31	1247
Brake-shoe.....	J. H. Pitard.....	318,203	May 19	1704	456	31	854
Brake-shoe.....	S. Uren.....	313,347	Dec. 1	126	31	33	1021
Brake-shoe clamp.....	L. King.....	316,630	Apr. 28	2262	595	31	422
Brake and other articles. Packer for.....	S. T. Lockwood.....	325,254	Sept. 1	28	9	32	1020
Bran-duster.....	A. Heine.....	322,715	July 21	1756	464	32	336
Bran-duster.....	J. W. Wilson.....	323,247	July 28	2507	665	32	480
Bran-duster and cleaner.....	L. S. Hogebloom and H. B. Smith.....	321,108	June 30	2934	778	31	1614
Bran, &c. Machine for packing.....	F. Dorsey.....	320,052	June 16	1482	391	31	1334
Bran packer.....	O. Anketell.....	318,158	May 19	1648	440	31	843
Branding-iron.....	A. Stollstorff.....	332,300	Dec. 15	1547	405	33	1288
Bread-cutter.....	N. Chapman.....	318,694	May 26	2363	631	31	969
Bread-cutter.....	H. A. Grimm.....	325,741	Sept. 8	713	178	32	1153
Bread-cutter.....	J. L. Kerstetter.....	323,228	Oct. 13	934	243	33	177
Bread-cutter.....	N. W. Merwin.....	331,990	Dec. 8	1103	287	33	1204
Bread-pad.....	C. L. Morehouse.....	326,915	Sept. 22	2202	602	32	1458
Breadpin.....	H. P. Prunin.....	322,640	July 21	1636	438	32	317
Breadpin.....	F. Schroder.....	325,117	Aug. 25	2328	640	32	979
Breadpin pin-tongue.....	A. Thommen.....	323,543	Aug. 4	213	63	32	561
Bread-shield.....	J. B. Phillips.....	320,661	June 30	2734	737	31	1578
Bread-strap iron.....	H. Merryman.....	333,320	Dec. 29	2987	723	33	1559
Bread-strap toggle.....	R. G. Hanford, Jr.....	310,510	Jan. 6	441	121	30	86
Breeching-eye. Metal.....	C. B. Webb.....	318,527	May 26	2142	577	31	943
Breweries. Apparatus for treating the refuse from.....	F. W. Wiesebeck.....	312,592	Feb. 17	1555	423	30	653
Brewers' grain. Preserving.....	F. W. Wiesebeck.....	312,593	Feb. 17	1557	424	30	654

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Brewing beer	J. Schafhaus	316,067	Apr. 31	1506	394	31	286
Brewing beer	C. Zimmer	330,124	Nov. 10	1027	268	33	709
Brewing purposes. Preparing and purifying wort for	C. Zimmer	315,876	Apr. 14	1243	324	31	232
Brick	W. Heard	314,022	Mar. 17	1346	350	30	1044
Brick and packing for furnaces and for other purposes. Fire-	J. F. Clinchard	314,803	Mar. 31	2403		30	1275
Brick and tile kilns. Drying apparatus for	C. L. Ames	311,557	Feb. 3	137	39	30	374
Brick and tile machine.	A. L. Brewer and H. Heesen	314,347	May 19	1903	513	31	890
Brick and tile machine.	F. E. Frey	330,863	June 23	2595	688	31	1547
Brick and tile machine.	W. W. Wallace	315,358	Apr. 7	514	131	31	93
Brick-burning kiln.	H. R. Cassidy and A. Fries	325,787	Sept. 8	771	193	32	1163
Brick-burning kiln.	J. O'Brien	315,222	Apr. 14	1172	306	31	220
Brick for veneering frame houses and other wooden buildings.	M. F. Ellis	313,930	Mar. 17	1237	321	30	1032
Brick fronts. Glass or vitreous facing for	W. Buttler	330,957	Nov. 24	2038	551	33	916
Brick-hack covering	J. S. Lester	314,457	Mar. 24	1911	510	30	1159
Brick-hack. Portable	M. Walker and E. Miner	329,812	Sept. 22	2160	562	32	1432
Brick-kiln	W. N. Graves	326,286	Sept. 15	1430	372	32	1293
Brick-kiln	T. S. Hawkins	317,351	May 5	574	147	31	628
Brick-kiln	T. McNicholas	318,490	May 26	2064	563	31	933
Brick-kiln	S. B. Mos	316,904	Apr. 28	2676	697	31	505
Brick-kiln. Continuous	M. A. T. Boehncke and H. Rohwer	323,492	Aug. 4	138	41, 42	32	547
Brick-machine	S. P. Babcock	327,376	Sept. 29	2917	761	32	1574
Brick-machine	J. Baillie	332,474	Dec. 15	1792	467	33	1330
Brick-machine	H. L. Balson	312,066	Feb. 10	817	223	30	508
Brick-machine	J. J. Brewis	324,453	Aug. 18	1487	390	32	803
Brick-machine	W. Burkman	323,909	Aug. 11	684	191	32	659
Brick-machine	S. Daly	330,002	Nov. 10	787	202	33	658
Brick-machine	L. Dernelle	327,867	Oct. 6	467	121	33	83
Brick-machine	V. Doriot	333,288	Dec. 29	2941	709	33	1550
Brick-machine	L. B. Kennedy	325,939	Sept. 8	949	241	32	1198
Brick-machine	L. B. Kennedy	325,940	Sept. 8	953	242	32	1199
Brick-machine	W. M. Logan	323,818	Aug. 4	559	150	32	628
Brick-machine	G. Martin	327,569	Oct. 6	86	10	33	16
Brick-machine	H. Martin	330,944	June 30	2708	718	31	1573
Brick-machine	P. B. Mathiason	331,420	Dec. 1	241	63, 64	33	1040
Brick-machine	A. J. Miller	314,340	Mar. 24	1761	470	30	1130
Brick-machine	R. N. Ross	329,415	Oct. 27	2604	471	33	495
Brick-machine	P. L. Simpson	315,840	Apr. 14	1206	314	31	226
Brick-machine	W. H. Stewart	323,083	July 28	2282	604	32	438
Brick-machine	C. A. Tarragon	319,639	June 9	914	241	31	1225
Brick-machine	A. D. Thomas	315,855	Apr. 14	1212	317	31	227
Brick-machine	A. B. Woodward	330,963	Nov. 24	2031	549	33	915
Brick-machine attachment	W. N. Graves	326,287	Sept. 15	1431	373	32	1293
Brick-machine brushing attachment.	A. Ittner	315,414	Apr. 7	506	153	31	107
Brick-machine. Hydraulic	W. N. Graves	326,286	Sept. 15	1433	374	32	1294
Brick-machine. Hydraulic	S. E. McGregory and J. J. Koch	329,814	Dec. 22	2265	597	33	1423
Brick-machine mold and frame therefor	W. N. Graves	326,289	Sept. 15	1438	375	32	1295
Brick-machine tile-making attachment.	J. B. Foster	315,016	Apr. 7	41	9	31	9
Brick-machines. Device for cleaning cut-off wires of	J. N. Tricker	318,035	May 19	1518	407	31	818
Brick, &c. Making	J. P. Perkins	318,792	May 26	2498		31	1005
Brick-making machine.	J. H. Williamson	322,129	Dec. 8	1314	341	33	1241
Brick. Manufacture of	N. S. Willet	315,900	Apr. 7	311	75, 76	31	56
Brick-molds. Machine for sanding	R. S. Judson and C. J. Hancock	322,455	July 21	1410	369	32	273
Brick-molds. Machine for sanding	A. Naylor	327,711	Oct. 6	279	71	33	49
Brick-molds. Machine for sanding	D. Ralston	321,528	July 7	169	45, 46	32	34
Brick-press	J. R. Bowers	316,939	May 5	12	4	31	525
Brick-press	H. Luper	323,348	July 28	2656	706	32	505
Brick-pressing machine	S. P. Crafts	315,601	Apr. 14	871	229	31	161
Brick or tile die	J. L. Friend	331,391	Dec. 1	192	50	33	1032
Brick, tile, drain-pipe, &c.	H. Dickson	313,480	Mar. 10	617	160	30	900
Brick-truck	D. J. C. Arnold	316,322	Apr. 21	1846	4, 8	31	347
Brick weather-boarding. Manufacture of imitation.	P. Toglio	318,054	May 19	1517	406	31	818
Bricks. Appliance for laying	M. Raymond	322,563	July 21	1562	412	32	299
Bricks, building-blocks, &c., made of purified ashes and lime	E. L. Ransome	322,559	July 21	1549		32	297
Bricks. Device for conveying clay and clay-shale to the machines for pressing them into	J. C. Anderson	311,032	Jan. 20	1167	319	30	230
Bricks. Drying and burning	P. Lichtenstadt	325,680	Sept. 8	618	157	32	1137
Bricks, &c. Machine for molding plastic materials into	S. Brightmore and A. Dixon	330,291	Nov. 10	1160	306	33	735
Bricks. Machine for pressing molded	N. I. Wolfe	318,934	May 26	2686	711	31	1039
Bricks. Machine for the manufacture of	J. Tiffany	314,274	Mar. 24	1672	445	30	1113
Bricks, &c. Machine or press for pressing	A. Ward	328,552	Oct. 20	1370	357	33	264
Bricks, pottery-ware, &c. Oven or detached kiln for burning	H. Knowles	318,266	May 19	1785	477	31	869
Bridge	M. Daisle	322,058	Dec. 8	1203	314	33	1222
Bridge	W. O. Donnell	315,259	Apr. 7	387	96, 97	31	70
Bridge	C. L. Dundas	320,859	June 23	2589	625	31	1546
Bridge	E. A. Werner	311,624	Feb. 3	219	62	30	390

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	De'k.	Vol.	Page.
Bridge	E. A. Werner	329,249	Oct. 27	2353	609	33	450
Bridge. Arch.	G. Lindenthal	311,338	Jan. 27	1589	435	30	312
Bridge. Draw.	W. D. Bullock	322,787	July 21	1848	491	32	353
Bridge. Draw.	J. Groves	322,708	July 21	1748	462	32	334
Bridge for facilitating the passage of shipping, &c.	F. Barnett	316,597	Apr. 28	2222	585	31	422
Bridge-gate	F. Hack	332,077	Dec. 8	1233	321 322	33	1327
Bridge-gate. Automatic.	R. W. Hale	323,034	July 28	2217	598	32	425
Bridge-gate. Automatic draw.	F. W. Meuze	316,635	Apr. 28	2268	597	31	430
Bridge-gate. Draw.	W. Johnston and W. J. Taylor	321,975	July 14	775	902	32	149
Bridge-gate or guard	P. Ryan	327,112	Sept. 29	2568	669 670	32	1512
Bridge guard. Draw.	A. Bosch	325,905	Sept. 8	911	230	32	1191
Bridge joint. Draw.	G. W. Mershon	323,711	Aug. 4	427	122	32	603
Bridge. Railway.	J. Dennis	319,798	June 9	1133	298	31	1362
Bridge safety-gate	L. F. Smith	320,408	June 16	2013	528	31	1423
Bridge safety-gate. Draw.	G. E. Hawks	332,899	Dec. 22	2388	631 632	33	1445
Bridge. Suspension.	S. T. Wilson	314,900	Mar. 31	2338	671	30	1293
Bridge. Swing.	M. O. Anthony	325,472	Sept. 1	341	83	32	1089
Bridge system. Railway-cable.	J. G. Ogden	326,322	Sept. 15	1483	386 387	32	1303
Bridge-truss	G. H. Pegram	314,361	Mar. 24	1650	438	30	1109
Bridge-truss	E. Thacher	310,747	Jan. 13	753	205	30	149
Bridge. Truss.	C. and G. Carr	322,758	Oct. 20	1645	429	33	315
Bridges, &c. Bearing-roller for	J. A. McDonald	327,808	Oct. 6	398	104	33	70
Bridges. Safety-gate for pivot.	J. H. Quackenbush	321,249	June 30	3105	826	31	1645
Bridges. Signal-gate for draw.	D. B. Fisk	326,965	Sept. 29	2374	621	32	1479
Bridle	A. F. Bowen	331,030	Nov. 24	2121	574	33	932
Bridle	J. R. M. Crawford	314,807	Mar. 31	2408	637	30	1276
Bridle	M. Werkheiser	313,141	Mar. 3	136	33	30	201
Bridle and bridle attachment	A. W. Tourgee and L. D. Jennings	229,508	Nov. 3	111	29	33	526
Bridle and halter	J. Andes	318,409	May 19	1982	533	31	905
Bridle-bit	C. Baker	325,232	Sept. 1	4	1	32	1015
Bridle-bit	A. P. Baldwin	326,703	Sept. 22	1977	519	32	1402
Bridle-bit	P. Barbour	319,439	June 9	634	172	31	1176
Bridle-bit	J. R. Brott and M. L. Andrews	312,182	Feb. 10	992	270	30	539
Bridle-bit	H. M. Clemons	327,139	Sept. 29	2601	678	32	1513
Bridle-bit	E. Q. Darr	329,629	Nov. 3	280	72	33	558
Bridle-bit	J. G. Eberhard	324,821	Aug. 25	1941	533	32	906
Bridle-bit	J. M. French	319,897	June 9	1265	333	31	1287
Bridle-bit	C. E. Heinze	326,648	Sept. 22	1899	499	32	1387
Bridle-bit	G. M. Hubbard	332,200	Dec. 8	1406	363	33	1256
Bridle-bit	E. W. Jackson	322,781	Oct. 20	1672	435	33	320
Bridle-bit	L. Lynch	311,436	Jan. 27	1780	468	30	336
Bridle-bit	S. Norton	313,442	Mar. 3	568	146	30	882
Bridle-bit	B. P. Roberts	322,975	Oct. 27	1957	510	33	379
Bridle-bit	H. S. Squier	312,397	Feb. 17	1256	355	30	603
Bridle-bit	J. Stanley	317,034	May 5	133	34	31	546
Bridle-bit	A. H. Trego	332,571	Dec. 15	1933	506	33	1355
Bridle-bit fastening	D. Waters	332,025	Dec. 8	1160	302	33	1214
Bridle-blind	E. Q. Darr	328,657	Oct. 20	1525	396	32	292
Bridle-blinder	H. A. Johnson	321,112	June 30	2032	779	31	1614
Bridle-blinder	D. Kaltenbacher, (Reissue)	10,569	Mar. 10	1099	285	30	989
Bridle blinder or winker	W. W. Beach	311,562	Feb. 3	142	40	30	375
Bridle blinkers. Pattern for	C. W. Hess	325,236	Sept. 8	834	208	32	1175
Bridle gag runner	R. G. Hanford, Jr	319,408	June 2	578	157	31	1154
Bridle. Harness.	M. R. Good	328,773	Oct. 20	1661	433	33	313
Bridle-loop	G. L. Smith	315,672	Apr. 14	904	252	31	120
Bridle overdraw-check	F. M. Amaby	323,620	Aug. 4	317	91	32	521
Bridle. Safety.	O. Schrader	322,012	July 14	826	216	32	159
Bridle-winker	W. W. Beach	311,561	Feb. 3	141	40	30	375
Bridles. Check-rein swivel for	W. J. Bitter	318,443	May 26	2026	546	31	922
Bridles. Nose-band for overdraw-checks for	H. Lowe	319,976	June 9	1290	341	31	1222
Bridles or halters. Nose-band for	R. Winder	329,352	Oct. 27	2505	645	33	477
Brine-cooling apparatus.	C. G. Mayer	314,038	Mar. 17	1365	356	30	1948
Bristle-lunching tool	P. Moenoz	324,403	Aug. 18	1362	370 371	32	792
Bristle-holder	L. E. Price	328,063	Oct. 13	727	190	33	138
Broiler	A. M. L. Mathioly	320,668	June 23	2358	623	31	1501
Broiler	A. Pillault	326,328	Sept. 15	1491	388	32	1305
Broiler for ranges	J. J. Richardson	332,558	Dec. 15	1915	501	33	1322
Broiler or toaster	M. G. Barbour	320,529	June 23	2175	574	31	1466
Broiler. Wire	S. Ayres	313,400	Mar. 3	737	132	30	871
Broiling, toasting, &c. Apparatus for	T. Allen	312,431	May 5	686	174	34	647
Bronze plates for book-covers, furniture-panels, &c. Manufacture of imitation.	C. Wagenführ	312,044	Feb. 10	788	215	30	502
Bronzing and dusting machine	R. F. Emmerich and F. Vonderlehr	333,207	Dec. 29	2927	740	33	1529
Bronzing-machine	J. J. Floyd	316,351	Apr. 21	1881	498	31	353
Bronzing-machine	A. Komp	311,189	Jan. 27	1367	374 375	30	272
Bronzing-machine	J. Schneider	311,612	Feb. 3	204	57, 58	30	387
Brooch or breastpin	R. R. Hug	323,688	Aug. 4	402	115	32	598
Brooder	W. Courtney	328,011	Oct. 13	657	173	33	126
Brooder	G. W. Pressey	328,660	Oct. 20	1771	462	33	338
Broom	M. A. Thompson	330,439	Nov. 17	1368	364	33	781
Broom and tool rack. Combined	J. H. Barber	326,192	Sept. 15	1301	336	32	1207
Broom-corn. Machine for tabling.	F. M. Parker	328,248	Oct. 13	959	249	33	128
Broom-corn sizer	G. Smith	319,859	June 9	1209	319	31	1277
Broom-cover	W. Perry and J. A. Prince	313,223	Mar. 3	294	74	30	820
Broom-holder	M. B. Brown	321,883	July 7	654	170	32	119
Broom-holder	F. W. Lane	328,851	Oct. 20	1762	460	33	297
Broom-holder	N. H. Long	325,682	Sept. 8	619	157	32	1137
Broom-holder	O. Ludwig	332,618	Dec. 15	1907	524	33	1267

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Broom-rack	J. M. Bennett	319,176	June 2	293	78	31	1102
Broom-sprinkler	T. Andrews	325,375	Sept. 1	202	51	32	1052
Broom-support	W. T. Shaffer	332,014	Dec. 8	1134	296	33	1210
Broom-winding machine	L. Perron	329,482	Nov. 3	77	21	33	519
Brush	S. Morley	324,037	Aug. 11	848	236	32	689
Brush	E. W. Porter	329,413	Oct. 27	2602	471	33	495
Brush	T. V. Sebring	313,776	Mar. 10	1002	259	30	972
Brush and broom holder	D. D. Lavery	326,925	Sept. 15	1346	348	32	1277
Brush and scraper. Combined blacking.	C. E. Hatch	330,111	Nov. 10	932	243	33	689
Brush back or stock of plastic material	W. Booth	329,128	Oct. 27	2183	586	33	417
Brush. Blacking	G. W. Mowry	329,590	Oct. 20	1435	373	33	276
Brush. Circular wire	B. F. Quibby	327,720	Oct. 6	292	74	33	51
Brush. Clothes	J. Stehlin	330,270	Nov. 10	1131	301	33	729
Brush-cutting machine for vineyards	O. R. Rufus	314,979	Mar. 31	2646	700	30	1317
Brush for cleaning chimneys	A. Oelschleger	328,967	Oct. 27	1942	506	33	376
Brush for lining brick houses	W. C. Green	332,382	Dec. 15	1679	440	33	1312
Brush-handle. Detachable	C. Donszky	330,005	Nov. 10	791	203	33	659
Brush-machine	S. C. Collins	312,611	Feb. 24	1579	432	30	668
Brush-making machine	M. Hellwig	311,985	Feb. 10	718	196	30	458
Brush. Marking	J. M. Pickering	317,570	May 12	664	221	31	688
Brush or broom support	C. E. Perry	327,526	Oct. 6	111	25	33	21
Brush. Paint	A. L. Pritchett	323,827	Aug. 4	568	161	32	630
Brush. Paint or whitewash	W. A. Nowlin	328,426	Oct. 13	1207	312	33	222
Brush. Reservoir window-washing	T. Huntbatch	327,947	Oct. 6	571	148	33	103
Brush. Revolving	T. McCabe	328,545	Dec. 15	1697	496	33	1897
Brush. Rotary	J. Schmidt	327,323	Sept. 29	2637	740	32	1561
Brush. Scrubbing	C. Acker and G. Michler	327,851	Oct. 6	447	116	33	78
Brush. Tooth	W. R. Hock	320,436	June 16	2046	537	31	1434
Brush. Tooth	W. R. Evans	323,305	July 28	2600	691	32	496
Brushes. Machine for making	R. S. Lakin	325,250	Sept. 1	24	8	32	1020
Brushes. Manufacture of flat	A. Frazier	330,688	Nov. 17	1676	452	33	842
Brushes. &c. Treating fiber for the manufacture of	H. Rosenthal	327,723	Oct. 6	395	75	33	51
Buck-pole	E. Vogel	331,852	Dec. 8	901	233	33	1167
Bucket and cover. Sap	B. F. Cook	327,529	Oct. 6	34	7	33	8
Bucket and stool. Milk	E. S. Wilkins	313,397	Mar. 3	504	131	30	870
Bucket covers. Fastening for asp	E. F. Drake	332,142	Dec. 8	1338	346	33	1244
Bucket. Dinner	B. F. Couch	332,788	Dec. 22	2238	590	33	1418
Bucket-elevator	J. B. Schneider	319,933	June 9	1314	346	31	1296
Bucket-handle	F. W. Howell	317,791	May 12	1153	305	31	742
Bucket. Minnow	G. W. Knapp	312,908	Feb. 10	1026	280	30	546
Bucket or receptacle for malt liquors	W. W. Hough	321,606	July 7	270	72	32	52
Bucket. Portable water	S. W. A. Wiegell	315,198	Apr. 7	307	73	31	55
Bucket. Slop	R. A. Williams	317,059	May 5	166	42	31	553
Bucket. Water-elevating	R. Burton	319,388	June 2	552	150	31	1153
Bucket. Well	C. C. Coffee	313,288	Mar. 3	364	90	30	843
Buckle	J. S. Arnold	320,835	June 23	2554	676	31	1539
Buckle	J. M. Basinger	321,175	June 30	3014	798	31	1629
Buckle	N. A. Cooper	324,921	Aug. 25	2071	567	32	931
Buckle	C. T. De Forest	315,466	Apr. 14	708	187	31	132
Buckle	R. M. Dillard	326,410	Sept. 15	1587	413	32	1323
Buckle	R. M. Dillard	331,378	Dec. 1	171	44	33	1028
Buckle	C. G. Dobbs	310,889	June 9	1251	330	31	1284
Buckle	C. A. Draper	326,979	Sept. 15	1421	370	32	1291
Buckle	M. L. Hall	330,232	Nov. 10	1082	286	33	719
Buckle	E. E. Hardy	328,936	Oct. 27	1894	495	33	367
Buckle	C. E. Harris	314,018	Mar. 17	1340	349	30	1043
Buckle	W. H. Hart, Jr.	316,261	Apr. 21	1767	464	31	333
Buckle	H. Howard	310,589	Jan. 13	555	154	30	119
Buckle	W. T. Jones	324,846	Aug. 25	1976	543	32	913
Buckle	C. Kahlofer	314,452	Mar. 24	1906	509	30	1158
Buckle	E. Kraft	316,372	Apr. 21	915	506	31	339
Buckle	J. E. Lee	314,693	Mar. 31	2227	592	30	1242
Buckle	J. Lines	318,210	Feb. 10	1027	281	30	546
Buckle	G. W. Longnecker	319,734	June 9	1031	273	31	1247
Buckle	C. A. Mann	312,136	Feb. 10	908	247	30	525
Buckle	J. C. Farmerlee and A. Swift	323,827	Dec. 29	2995	784	33	1501
Buckle	J. R. Pollock	317,415	May 5	659	167	31	643
Buckle	T. O. Potter	320,089	June 16	1533	406	31	1344
Buckle	C. C. Shelby	330,518	Nov. 17	1472	394	33	801
Buckle	J. Simpson, I. M. Hatcher, and H. E. Wildermuth	329,860	Nov. 3	588	151	33	615
Buckle	H. Staus	320,012	June 16	1430	376	31	1324
Buckle	W. D. Stratton	323,084	July 28	2286	605	32	439
Buckle	A. W. Tourgee and L. D. Jennings	327,622	Oct. 6	163	40	33	30
Buckle	J. Wagner	318,059	May 19	1522	408	31	819
Buckle	C. W. Wheeler	313,142	Mar. 3	137	33	30	802
Buckle	G. W. Wilson	319,769	June 9	1076	286	31	1255
Buckle	M. E. Zeller	318,074	May 19	1541	413	31	822
Buckle	M. E. Zeller	331,176	Nov. 24	2324	630	33	969
Buckle and cup. Combined belt	W. R. Johnston	326,296	Sept. 15	1450	378	32	1297
Buckle and snap. Combined breast-strap	J. S. Ginger	318,179	May 19	1672	448	31	848
Buckle and trace-carrier. Combined pad	O. Mallory	320,569	June 23	2320	588	31	1475
Buckle attachment	W. P. Tinsley	326,350	Sept. 15	1532	396	32	1311
Buckle. Back-band	F. Mellott	322,624	July 21	1638	433	32	314
Buckle-blanks. Making	T. O. Potter	332,622	Dec. 15	2001	525	33	4368
Buckle. Combined back-strap and trace	G. Zitlow	317,096	May 12	1030	267	31	719
Buckle. Combined hame-tug and trace	H. B. Robertson	317,158	May 12	1245	329	31	759
Buckle-frames. Die for swaging	J. E. Kelsey	323,856	July 28	2374	629	32	456
Buckle-frames. Machine for making	G. R. Kelsey	323,155	July 28	2372	629	32	456
Buckle. Harness	J. M. Basinger	322,087	July 14	929	240	32	177
Buckle. Harness	H. F. Bock	327,130	Sept. 29	2593	675	32	1517
Buckle. Harness	B. J. Hartman	319,579	June 9	828	219	31	1210

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Buckle. Harness.	J. Schroder.	324,733	Aug. 18	1809	500	32	875
Buckle. Harness.	A. C. Walker.	311,393	Jan. 27	1680	453	30	325
Buckle. Hook.	V. Berthelot.	326,385	Sept. 15	1561	405	32	1318
Buckle. Key.	S. M. Adkins.	310,632	Jan. 13	604	166	30	121
Buckle. Lever.	J. F. Molloy.	317,168	May 5	326	81	31	522
Buckle. Lever.	E. S. Smith.	310,919	Jan. 20	977	265	30	194
Buckle. Lever.	W. E. Smith.	315,177	Apr. 7	263	64	31	48
Buckle. Lever.	W. S. Thurlow.	318,053	May 19	1516	406	31	818
Buckle. Lock.	M. W. Lynch.	318,569	May 26	2208	590	31	953
Buckle shield. Harness.	J. P. Seallay.	330,429	Nov. 17	1356	361	33	779
Buckle. Surcingle.	E. Deming.	328,765	Oct. 20	1652	431	33	316
Buckle. Suspender.	G. F. Atwood.	332,177	Dec. 8	1382	357	33	1252
Buckle. Suspender.	D. L. Durand.	330,297	Nov. 17	1858	501	33	875
Buckle. Suspender.	D. L. Durand.	331,690	Dec. 1	672	166	33	1116
Buckle. Suspender.	W. F. Osborne.	332,425	Dec. 15	1725	452	33	1319
Buckle. Suspender.	J. R. Pollock.	330,349	Nov. 10	1239	330	33	750
Buckle. Suspender.	C. C. Shelby.	313,628	Mar. 10	602	210	30	935
Buckle. Suspender.	C. C. Shelby.	320,405	June 16	2009	527	31	1428
Buckle. Suspender.	A. Shenfield and C. Voorhis.	332,448	Dec. 15	1752	458	33	1324
Buckle. Suspender.	W. E. Smith.	319,860	June 9	1211	320	31	1278
Buckle. Suspender.	F. B. Spooner.	317,813	May 12	1263	336	31	763
Buckle. Suspender.	J. Spruce.	331,601	Dec. 1	627	154	33	1102
Buckle. Suspender.	J. F. Townsend.	324,897	Aug. 25	2045	559	32	925
Buckle. Trace.	L. Carr.	314,564	Mar. 31	2068	553	30	1213
Buckle. Trace.	J. Harrington.	337,160	Sept. 29	2640	687	32	1525
Buckle. Trace.	E. G. Latta.	330,336	Nov. 10	1213	325	33	746
Buckle. Trace.	W. Lerchen.	319,567	Feb. 17	1525	415	30	647
Buckle. Trace.	O. Mallory.	318,572	May 26	2212	591	31	953
Buckle. Trace or hame-tug.	A. E. Deibort.	310,300	Jan. 0	304	84	30	59
Buckle. Trace or harness.	D. G. Gav.	316,256	Apr. 21	1760	463	31	332
Buckles. Apparatus for bending the hinge ends of.	G. R. Kelsey.	317,374	May 5	603	154	31	633
Buckles for wearing apparel. Guard for.	M. Bernstein.	318,220	May 19	1744	466	31	861
Buckles. Manufacture of.	G. R. Kelsey.	316,790	Apr. 28	2508	635	31	474
Buckles, snap-hooks, &c. Rope or strap attaching device for.	W. C. Sly.	315,175	Apr. 7	261	63	31	47
Budding-knife.	H. E. Hulbert.	324,700	Aug. 18	1772	429	32	668
Budding-knife.	K. McLennan.	316,659	Apr. 28	2172	572	31	413
Buffer.	R. P. Garsed.	318,463	May 26	2050	554	31	927
Buffer.	R. P. Garsed.	330,009	Nov. 10	795	204	33	660
Buffer.	J. Trippett, T. and H. Searls.	328,085	Oct. 13	757	197	33	143
Buffing-roll.	S. B. Breed.	323,779	Aug. 4	517	146	32	619
Buffing-roll.	J. G. Buzzell.	315,477	Apr. 14	665	181	31	129
Buffing-roll.	F. H. Emerson.	325,329	Sept. 1	133	37	32	1040
Buggy.	A. Lewis and E. Huff.	328,321	Oct. 13	1047	270	33	198
Buggy-body.	C. P. Kimball.	316,270	Apr. 21	1778	468	31	335
Buggy-boot.	D. Buckler, R. D. Cain, J. Teubert, and E. N. Pelzer.	322,518	July 21	1504	395	32	290
Buggy-boot.	J. W. Leek.	327,802	Oct. 6	390	101	33	68
Buggy-seats. Shifting-rail for.	S. Cothermon.	326,019	Sept. 8	1059	270	32	1218
Buggy. Side-bar.	R. St. Clair.	314,077	Mar. 17	1409	368	30	1057
Buggy. Side-bar.	D. J. Owen.	318,017	May 19	1466	392	31	809
Buggy-top.	G. W. Bonecutter.	316,442	Apr. 28	2035	533	31	346
Buggy-top.	E. L. Booth.	321,945	July 14	740	194	32	143
Buggy-top.	E. Carroll and P. Ryan.	332,878	Dec. 22	2366	626	33	1440
Buggy-top-bow protector.	J. R. Creviston.	333,058	Dec. 22	2611	684	33	1485
Buggy-top spring.	W. R. Wood.	324,909	Aug. 25	2061	564	32	928
Buggy-top support.	L. S. Longcor and W. M. Dawson.	317,811	May 12	1180	313	31	747
Buggy-top support.	A. Witzel.	311,703	Feb. 3	318	87	30	409
Building-block.	S. T. Trumbull.	312,305	Feb. 17	1165	318	30	520
Building-blocks. Press for plastic material for.	C. I. Walker and F. J. Jervey.	323,757	Aug. 4	428	138	32	615
Building. Frame.	L. W. Beard.	318,592	May 26	2235	598	31	953
Building. Portable.	J. E. Acheson.	319,436	June 9	632	171	31	1175
Building. Portable.	T. R. Carskadon.	324,456	Aug. 18	1432	391	32	804
Buildings. Anchor for.	F. D. Paradise.	318,648	May 26	2303	615	31	971
Buildings. Artificial facing-block for.	H. G. Fiske.	317,107	May 5	231	58	31	546
Buildings. Construction of.	J. C. Anderson.	324,634	Aug. 12	1686	464	32	851
Buildings. Construction of.	R. S. Pearshall.	311,011	Jan. 20	1133	309	30	324
Buildings. Construction of.	E. L. Randall.	311,677	Feb. 3	284	78	30	402
Buildings. Construction of fire-proof.	R. Guastavino.	323,930	Aug. 11	709	190	32	664
Bull-head.	J. C. Covert.	326,699	Sept. 29	2224	597	32	1454
Bull-tamer.	J. C. Poor.	330,150	Nov. 10	985	256	33	700
Bullet.	F. Manning.	326,231	Sept. 15	1352	349	32	1278
Bullet molding and necking implement.	T. Oldham.	319,304	June 9	448	121	31	1133
Bung.	F. S. Clinton.	320,222	June 10	1709	454	31	1375
Bung.	J. L. MacIvaine.	311,345	Jan. 27	1598	437	30	314
Bung and bush.	C. Kühner.	326,127	Sept. 15	1201	307	32	1251
Bung and faucet for ale and beer barrels. Combined.	R. M. Reilly and F. King.	322,853	July 21	1044	514	32	360
Bung. Barrel.	H. Roemhildt.	318,659	May 26	2316	619	31	974
Bung-cutter.	H. Waas.	314,066	Mar. 17	1427	373	30	1059
Bung-hole cutter.	J. Kirby.	312,359	Feb. 17	1238	340	30	583
Buoy.	F. Delany.	325,162	Aug. 25	2322	636	32	968
Bureau.	E. V. Hawkins.	331,966	Dec. 8	1067	276	33	1198
Bureau.	D. R. Kinley.	321,037	June 30	2234	754	31	1597
Burglar-alarm.	C. P. Bachelder.	329,233	Oct. 27	2356	610	33	451
Burglar-alarm.	J. G. Batterson.	310,242	Jan. 6	101	28	30	21
Burglar-alarm.	S. Broichgans.	321,679	July 7	359	95	32	67
Burglar-alarm.	F. Cross.	319,566	June 9	807	215	31	1206
Burglar-alarm.	A. C. Gibson.	315,133	Apr. 7	197	48	31	36
Burglar-alarm.	W. Goldspohn.	320,871	June 23	2604	690	31	1549
Burglar-alarm.	A. W. Hall.	315,140	Apr. 7	205	50	31	38
Burglar-alarm.	H. T. Holmboe.	310,421	Jan. 6	377	92	30	66
Burglar-alarm.	H. Herriek and W. L. Babcock.	323,810	Aug. 4	549	156	32	698
Burglar-alarm.	F. D. Hill.	325,838	Sept. 8	835	209	32	1175

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Burglar-alarm	A. Jacobi	314,450	Mar. 24	1903	508	30	1158
Burglar-alarm	A. Jacobi	320,660	June 23	2348	620	31	1496
Burglar-alarm	T. James, Jr	328,225	Oct. 13	930	242	33	177
Burglar-alarm	I. G. Leek	315,152	Apr. 7	230	56	31	42
Burglar-alarm	J. H. Luebsen	315,641	Apr. 14	926	243	31	173
Burglar-alarm	J. G. Nowell	325,961	Sept. 8	985	250	32	1304
Burglar-alarm	W. F. H. O'Keefe	311,027	Jan. 20	1129	308	30	223
Burglar-alarm	F. Pollitz	312,508	Feb. 17	1432	397	30	634
Burglar-alarm	M. Pratt	320,686	June 23	2381	629	31	1505
Burglar-alarm	W. H. Relf	315,838	Apr. 14	1190	310	31	223
Burglar-alarm	A. C. Tonner	318,834	May 26	2555	680	31	1015
Burglar-alarm	B. T. Trimmer	330,942	Nov. 24	2016	545	33	912
Burglar-alarm and sash-fastener. Combined	J. Brady	321,184	June 30	3025	802	31	1631
Burglar-alarm. Electric	J. Barkheimer	319,053	June 9	147	40	31	1074
Burglar-alarm. Electric	A. W. Hall	315,139	Apr. 7	200	49	31	36
Burglar-alarm. Electric	J. H. Hill and J. E. Babcock	318,621	Apr. 28	2250	593	31	427
Burglar-alarm. Electric	F. G. Lyon	316,376	Apr. 21	1920	507	31	360
Burglar-alarm, match-safe, and sash-fastener. Combined	D. T. Phillips	315,439	Apr. 7	631	163	31	113
Burglar-alarms. Automatic circuit-breaker for	J. B. Yeakle	332,130	Dec. 8	1317	342	33	1241
Burial apparatus	M. Chastain	312,216	Feb. 24	1847	507	30	715
Burial apparatus	J. C. Herrmann	327,551	Oct. 6	68	15	33	13
Burial apparatus	J. C. Herrmann	327,552	Oct. 6	67	15	33	13
Burial-case	P. T. Creggan	322,424	July 21	1365	356	32	205
Burial-case	J. J. Finley	320,561	June 23	2590	686	31	1546
Burial-case	J. C. House	320,254	June 17	1748	465	31	1382
Burial-case and coffin	A. S. Lovett	321,781	Dec. 8	1092	284	33	1392
Burial-casket	N. Rappleyea	310,223	Jan. 6	78	21	30	17
Burial-casket	C. Sieber and F. H. Borntraeger	329,495	Nov. 3	96	25	33	523
Burial-casket	W. A. Sparks and N. Rappleyea	320,410	June 16	2014	529	31	1439
Burial-casket drapery	A. Froschl	313,820	Mar. 10	1060	273	30	982
Burial-casket, vault, &c.	J. Cooper	328,291	Oct. 13	1009	262	33	191
Burial-caskets. Device for securing lids to	R. Otto	322,471	July 21	1434	376	32	277
Burner:							
See Argand burner.	Hydrocarbon-burner.						
Gas-burner.	Lamp-burner.						
Gas and vapor burn- er.	Oil-burner.						
	Petroleum-burner.						
Hay and straw burner.	Vapor-burner.						
Burner and boiler-furnace. Combined	C. T. Burrell	324,298	Aug. 11	1918	331	32	757
Burner for heating purposes	L. H. Watson	320,107	Oct. 27	2151	557	33	412
Burning fuel. Apparatus for	R. E. Burns	326,947	Sept. 29	2359	615	32	1474
Burning liquid fuel. Apparatus for	F. Lane	323,811	Dec. 29	2975	779	33	1557
Burnishing-machine	C. J. Addy	318,340	May 19	1891	509	31	888
Burnishing-machine.	A. H. Bliss	332,476	Dec. 15	1788	469 470	33	1330
Burring-machines. Toothed cylinder for	C. L. Goddard	314,664	Mar. 31	2198	583	30	1236
Bush for barrels. Tap	L. Solgrath	332,445	Dec. 15	1748	457	33	1323
Bush. Metallic bung	W. Calhoun	322,855	July 14	1140	298	32	817
Bush. Tap hole	A. Fischer	320,862	June 23	2591	686	31	1546
Bushing and bung	A. E. Aldridge	327,509	Oct. 6	1	33	3	
Bushing or bearing. Friction-roller	A. P. Daboll	310,259	Jan. 6	139	37	30	26
Bushings into casks. Expander for expanding and securing metal bung	H. Cottrell	311,960	Feb. 10	677	196	30	422
Bushings. Machine for threading tapering	H. H. Taylor	331,167	Nov. 24	2312	626	33	967
Bustle	B. Blenker	318,536	May 26	2152	579	31	945
Bustle	C. E. Brown	329,270	Oct. 27	2379	615	33	455
Bustle	E. B. Cady	322,678	July 21	1704	452	32	327
Bustle	C. C. Carpenter	324,226	Aug. 11	1124	305	32	739
Bustle	F. W. Crocker	318,599	May 26	2242	600	31	960
Bustle	C. R. Davis	314,566	Mar. 31	2071	553	30	1213
Bustle	C. R. Davis	321,584	July 7	239	63	32	46
Bustle	E. E. Hodson	329,042	Oct. 27	2058	534	33	396
Bustle	F. G. Moore	323,519	Aug. 4	180	52	32	555
Bustle	M. Phillips	324,338	Aug. 11	1273	346	32	768
Bustle	B. S. Reed	328,717	Oct. 20	1602	417	33	306
Bustle	B. S. Reed	331,821	Dec. 8	856	219	33	1158
Bustle	A. L. Rich	330,424	Nov. 17	1349	359	33	778
Bustle	M. Rosenstock	327,455	Sept. 29	3013	787	32	1591
Bustle	J. Schulte	333,260	Dec. 29	2906	760	33	1544
Bustle	A. Stiles	311,269	Jan. 27	1484	407	30	294
Bustle	A. Trelease	328,440	Oct. 13	1225	318	33	232
Bustle	J. M. Van Orden	332,126	Dec. 8	1302	338	33	1239
Bustle	J. L. Wells	325,031	Aug. 25	2220	609	32	958
Bustle. Woven-wire	R. Kelso	323,692	Aug. 4	406	116	32	599
Bustles. Stiffener for	E. Pohl	325,561	Sept. 8	866	218	32	1182
Butchering device	R. M. Laremore	311,191	Jan. 27	1371	376	30	273
Butter and cheese knife	J. P. Smith	331,915	Dec. 8	993	257	33	1184
Butter-cabinet	S. G. Highfill	332,903	Dec. 29	2397	633	33	1447
Butter-cutting device	O. K. Dexter	316,759	Apr. 28	2467	644	31	466
Butter-package	W. White	330,653	Nov. 17	1630	438	33	833
Butter-package	B. Wood	330,079	Nov. 10	897	232	33	682
Butter-package. Air-tight	C. D. Van Allen	323,980	Aug. 11	775	216	32	676
Butter-packing box	G. Hungerford and S. H. Stiles	313,426	Mar. 3	539	142	30	877
Butter-pail. Reshipping	D. H. and A. C. Eaton	322,267	July 14	1153	301	32	219
Butter. Treating	E. J. Woodruff	327,636	Oct. 6	184	33	33	
Butter-worker	H. F. King	329,746	Nov. 3	432	110	33	586
Butter-worker	J. F. Komp	328,411	Oct. 13	1128	307	33	225
Butter-worker	E. Krueger	333,369	Dec. 29	2973	778	33	1557
Butter-worker	L. W. Murch	323,879	Aug. 4	638	180	32	644
Butter-worker	J. H. Taylor	324,186	Aug. 11	1057	289	32	727
Butter-worker	N. G. Williams	332,128	Dec. 8	1313	341	33	1941
Button	E. Berman	310,361	Jan. 6	271	74	30	52
Button	W. E. Beyerly	328,753	Oct. 20	1642	428	33	314

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Button	A. R. Boynton	315,894	Apr. 14	1276	332	31	286
Button	B. H. Bradley	327,515	Oct. 6	6	2	33	3
Button	G. W. Cavello	326,080	Sept. 8	1147	292	32	1234
Button	L. P. Conard	324,303	Aug. 11	1223	333	32	758
Button	L. P. Conard	325,012	Sept. 8	991	232	32	1193
Button	L. P. Conard	327,768	Oct. 6	344	89	33	60
Button	J. A. Conley	319,790	June 9	1110	295	31	1960
Button	J. S. Dillon	321,953	July 14	751	196	32	145
Button	W. Durand	328,662	Oct. 30	1531	306	33	283
Button	E. Flags	331,124	Nov. 24	9251	612	33	956
Button	T. W. Foster	328,021	Oct. 13	669	176	33	188
Button	W. H. Gifford	324,832	Aug. 25	1956	537	32	969
Button	C. V. Goddard	310,939	Jan. 20	1008	273	30	199
Button	C. V. Goddard	326,211	Sept. 15	1328	344	32	1274
Button	H. C. Griggs	325,407	Sept. 1	259	65	32	1064
Button	P. Hirschfeld	311,758	Feb. 3	389	106	30	422
Button	W. C. Howard	316,624	Apr. 28	2255	594	31	428
Button	E. J. Howe	320,874	June 23	2607	691	31	1549
Button	T. R. Hyde, Jr	327,442	Sept. 29	2999	783	32	1589
Button	R. H. Isbell	330,403	Nov. 17	1325	352	33	773
Button	E. Kuhn	326,992	Sept. 29	2406	628	32	1485
Button	A. G. Mead	325,430	Sept. 1	289	71	32	1071
Button	A. G. Mead	325,688	Sept. 8	624	158	32	1178
Button	L. Morse	322,276	Dec. 15	1517	398	33	1284
Button	N. C. Newell	310,909	Jan. 20	959	261	30	192
Button	F. A. Nickerson	322,311	July 14	1207	318	32	929
Button	F. L. Niedermeyer	322,064	July 14	900	233	32	179
Button	J. P. Noyes	313,017	Feb. 24	2119	577	30	763
Button	J. P. Noyes	323,359	July 28	2673	712	32	509
Button	J. P. Noyes and T. J. Winans	323,358	July 28	2671	712	32	509
Button	N. F. Palmer	327,101	Sept. 29	2557	666	32	1510
Button	N. F. Palmer	327,102	Sept. 29	2557	666	32	1510
Button	G. D. Paul	319,997	June 16	1411	371	31	1321
Button	J. R. Pollock	315,440	Apr. 7	632	163	31	113
Button	G. L. Robinson	317,018	May 5	118	30	31	544
Button	H. Als, and G. Rouzé	333,482	Dec. 29	3197	836	33	1294
Button	S. C. Scott	314,612	Mar. 31	2124	566	30	1223
Button	D. B. Shantz	327,604	Oct. 6	134	31	33	25
Button	F. A. Smith, Jr	324,422	Aug. 18	1393	379	32	797
Button	T. I. Smith	314,616	Mar. 31	2132	567	30	1224
Button	T. W. F. Smitten	312,770	Feb. 24	1785	492	30	705
Button	J. Spruce	328,823	Oct. 30	1794	448	33	330
Button	J. E. Totten	311,794	Feb. 3	431	117	30	429
Button	C. F. Veit	327,906	Oct. 6	514	133	33	92
Button	C. F. Veit	327,907	Oct. 6	514	134	33	92
Button	J. H. Walker	312,936	Feb. 24	2002	547	30	742
Button	P. H. Walsh	315,101	Apr. 7	300	71	31	53
Button	C. L. Watson	320,021	June 16	1443	379	31	1326
Button	T. J. Winans	312,943	Feb. 24	2010	549	30	744
Button, Adjustable	W. Bourke	318,858	May 26	2586	689	31	1080
Button and button-fastener	I. G. Platt	329,337	Oct. 27	2485	641	33	474
Button and button-fastener	C. Ritter	326,322	Sept. 15	1495	390	32	1306
Button and button-fastening	W. J. Allason	311,460	Feb. 3	1	1	30	349
Button and disk trimming machine	S. L. Otis	313,949	Mar. 17	1259	328	30	1027
Button and fastener	G. W. Prentice	327,719	Oct. 6	291	74	33	51
Button and fastener	F. A. Smith, Jr	324,890	Aug. 25	2034	557	32	923
Button and fastener. Combined	M. Hamburger	310,273	Jan. 6	150	42	30	30
Button and fastening	G. W. Prentice	315,167	Apr. 7	250	61	31	46
Button and fastening	G. W. Prentice	317,012	May 5	110	28	31	542
Button and fastening therefor	F. M. Baker	324,212	Aug. 11	1107	299	32	736
Button and hat hook. Combined	A. H. Buckingham	319,192	June 2	311	83	31	1105
Button and holder. Cuff	J. A. Stuart and J. F. Woodmansee	324,184	Aug. 11	1055	289	32	736
Button and necktie-fastener. Combined collar	G. T. Kelting	316,044	Apr. 21	1474	385	31	280
Button and necktie-holder. Collar	E. J. Stellwagen	317,239	May 5	421	106	31	600
Button and necktie-holder. Combined collar	W. J. Burtis	319,063	June 2	159	43	31	1077
Button and pin. Combined	E. M. Chapman	326,717	Sept. 22	2007	534	32	1406
Button and scarf holder. Combined collar	W. J. Dunn	311,881	Feb. 10	551	151	30	459
Button and sleeve-pin. Combination cuff	W. H. Riley, Jr., and G. H. French	317,854	May 12	1940	328	31	758
Button-attaching apparatus	A. G. Wilkins	314,692	Mar. 17	1436	375	30	1061
Button-attaching instrument	J. F. Thayer	322,655	July 21	1675	444	32	320
Button-attaching machine	C. J. Brosnan	327,917	Oct. 6	532	139	33	96
Button-attaching machine	J. C. F. Dick	310,934	Jan. 20	999	271	30	197
Button-attaching machine	R. J. Gilmore	310,578	Jan. 13	539	148	30	109
Button-attaching machine	L. V. Moulton	312,748	Feb. 24	1761	485	30	700
Button-attaching machine	L. V. Moulton	312,749	Feb. 24	1763	485	30	700
Button-attaching machine	E. Woodward	311,456	Jan. 27	1742	474	30	340
Button-attaching machine. Shoe	M. J. Bartlett	316,794	Apr. 28	2415	629	31	457
Button. Calendar cuff	G. Monteiro	325,005	Aug. 25	2192	600	32	952
Button. Changeable	F. A. Fox	316,253	Apr. 21	1755	461	31	338
Button. Collar	F. G. Cart	315,907	Apr. 14	1297	338	31	941
Button. Collar	S. Cottle	311,107	Jan. 20	1249	342	30	244
Button. Collar	H. J. Geer	314,826	Mar. 31	2436	643	30	1261
Button. Collar	G. Krementz	315,418	Apr. 7	602	159	31	108
Button. Collar	M. B. Scott	328,721	Oct. 20	1609	419	33	308
Button. Collar	C. M. Sharpe	321,861	July 7	628	151	32	115
Button. Collar or sleeve	D. P. Fitzgerald	318,974	June 2	63	16	31	1059
Button. Collar or sleeve	O. T. Smith	316,194	Apr. 21	1681	441	31	319
Button cover or sheath	T. F. Walter	320,730	June 23	2429	644	31	1515
Button. Cuff	E. M. Stewart	322,208	July 14	1067	282	32	207
Button. Cuff and collar	E. B. Nock	332,620	Dec. 15	1999	524	33	1367
Button-eye	H. C. Luther	310,888	Jan. 20	945	258	30	190

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Button-fastener	J. Christy, Jr.	329,437	Nov. 3	15	4	33	507
Button-fastener	A. C. Clausen	321,090	July 7	379	101	32	71
Button-fastener	E. O. Ely	312,066	Feb. 24	2068	564	30	754
Button-fastener	E. O. Ely	323,923	Aug. 11	700	196	32	662
Button-fastener	C. Erlanger	333,400	Dec. 29	3087	805	33	1576
Button-fastener	C. F. Harlan	329,044	Nov. 3	296	75	33	561
Button-fastener	A. G. Irvine	330,888	Nov. 17	1552	416	33	816
Button-fastener	E. Ivins	329,744	Nov. 3	430	109	33	586
Button-fastener	T. E. Keavy	316,432	Apr. 21	2003	526	31	374
Button-fastener	E. Kempshall	310,224	Jan. 6	456	126	30	88
Button-fastener	E. Kempshall	314,084	Mar. 31	2219	590	30	1240
Button-fastener	G. W. Prentice	315,065	Apr. 7	110	26	31	22
Button-fastener	F. H. Richards	319,008	June 9	733	197	31	1193
Button-fastener	F. H. Richards	322,007	July 14	891	215	32	158
Button-fastener	F. H. Richards	322,008	July 14	892	215	32	158
Button-fastener	E. D. Steele	316,004	Apr. 21	1822	479	31	344
Button-fastener	E. D. Steele	316,005	Apr. 21	1823	479	31	344
Button-fastener	P. H. Sweet, Jr.	323,665	Aug. 4	106	31	32	542
Button-fastener	J. F. Thayer	321,665	July 7	338	90	32	64
Button-fastener	J. F. Thayer	332,667	Dec. 22	2479	656	33	1463
Button-fastener	J. F. Thayer	332,668	Dec. 22	2480	657	33	1463
Button-fastener	J. F. Thayer	332,669	Dec. 22	2481	657	33	1463
Button-fastener	J. F. Thayer	332,670	Dec. 22	2482	657	33	1463
Button-fastener	W. C. Walter	320,451	June 16	2066	542	31	1432
Button-fastener	H. J. Weldon	312,009	Feb. 17	1160	320	30	581
Button-fastener	H. J. Weldon	319,152	June 2	267	70	31	1096
Button-fastener-feeding machine	F. H. Richards	326,153	Sept. 15	1241	318	32	1258
Button-fastener-feeding machine	F. H. Richards	326,246	Sept. 15	1389	{ 358 350 }	32	1283
Button-fastener packing-box	F. H. Richards	333,159	Dec. 29	2769	723	33	1517
Button-fastener packing-case	E. Kempshall	328,315	Oct. 13	1040	269	33	197
Button-fastener rod	F. H. Richards	329,953	Nov. 10	721	183	36	646
Button-fastener-setting instrument	F. H. Richards	322,483	July 21	1455	383	32	261
Button-fastener-setting machine	F. H. Richards	310,541	Jan. 6	487	136	30	93
Button-fastener-setting machine	F. H. Richards	311,033	Jan. 20	1135	310	30	224
Button-fastener-setting machine	F. H. Richards	319,507	June 9	729	{ 185 196 }	31	1192
Button-fasteners. Apparatus for packing	F. H. Richards	331,823	Dec. 8	858	220	33	1158
Button-fasteners from shoes. Implement for detach-	H. Rose	332,560	Dec. 15	1916	501	33	1352
Button-fasteners. Instrument for handling	F. H. Richards	333,160	Dec. 29	2768	724	33	1517
Button-fasteners. Machine for feeding	F. H. Richards	320,503	June 23	2139	{ 564 565 }	31	1460
Button-fasteners. Machine for making and setting	F. H. Richards	322,972	July 28	2128	{ 566 567 }	32	411
Button-fasteners. Machine for manufacturing	H. N. Hemingway	312,121	Feb. 10	893	243	30	522
Button-fasteners. Making	F. H. Richards	331,522	Dec. 8	857	220	33	1158
Button-fasteners. Mechanism for feeding	F. H. Richards	322,971	July 28	2125	565	32	410
Button-fasteners. Packing-case for	F. H. Richards	322,009	July 14	893	215	32	159
Button-fasteners. Stock for making	F. H. Richards	326,152	Sept. 15	1241	317	32	1258
Button-fastening	F. M. Baker	313,274	Mar. 3	343	85	30	839
Button-fastening	R. J. Powell and W. F. Nolan	322,124	July 14	979	255	32	187
Button-fastening	G. W. Washburn	320,517	June 23	2158	569	31	1463
Button-fastening machine	C. Erlanger	325,516	Sept. 1	405	{ 99 100 101 }	32	1093
Button-fastening machine. Automatic	A. Hall	315,275	Apr. 7	409	102	31	74
Button-fastening staple	J. H. Vinton	324,053	Aug. 11	871	240	32	692
Button-fastening strip	E. Woodward	314,553	Mar. 24	2047	545	30	1182
Button-feeder	A. G. Wilkins and M. J. Bartlett	330,951	Nov. 24	2029	{ 548 549 }	33	914
Button for fur garments	H. F. Blindseil	327,757	Oct. 6	330	85	33	58
Button for gloves, &c.	L. Meyers	317,062	May 12	984	255	31	710
Button-hole attachment	J. K. Harris	318,471	May 26	2060	556	31	928
Button-hole attachment for garments. Elastic	A. R. Lane	329,055	Oct. 27	9077	539	33	399
Button-hole clamp	D. Mills	319,236	June 9	1180	311	31	1272
Button-hole cutter	G. E. Combs	330,773	Nov. 17	1790	482	33	863
Button-hole cutter	W. C. Hudson and J. Barry	316,366	Apr. 21	1904	504	31	357
Button-hole cutter	M. Kamak	316,151	Apr. 21	1633	427	31	310
Button-hole cutter	C. A. Röder	328,813	Oct. 20	1712	445	33	328
Button-hole-cutting attachment	J. D. Ulmer and J. S. Collins	312,932	Feb. 24	1997	546	30	741
Button-hole finishing, cording, and staying device	C. E. Finkle	328,304	Oct. 13	1027	266	33	195
Button-hole for wearing-apparel	W. P. Groom	320,132	June 16	1594	421	31	1353
Button-holes. Article of wearing-apparel provided with	W. P. Groom	320,131	June 16	1593	421	31	1353
Button-holes. Device for cutting and centering	F. W. Ostrom	320,958	June 30	2731	726	31	1578
Button-holes. Working	S. B. Ferris	329,635	Nov. 3	286	73	33	559
Button-hook	L. W. Fairchild	312,622	Feb. 24	1589	435	30	669
Button-hook	J. A. Smith	311,539	Feb. 3	110	32	30	370
Button-hook and coat-hanger. Combined	G. Heiles	315,500	Apr. 14	724	191	31	135
Button-hook holder for shoes	M. F. Frey	317,451	May 5	716	180	31	652
Button-lath	S. L. Otis	317,183	May 5	343	86, 87	31	585
Button. Link sleeve	T. W. F. Smitten	320,596	June 23	2261	598	31	1483
Button-locating machine	T. E. Keavy	326,567	Sept. 22	1784	468	32	1367
Button or knob	W. F. Ware	316,208	Apr. 21	1696	445	31	321
Button or other fastening for garments	A. J. Hays and S. Salkeld	320,061	June 16	1495	395	31	1336
Button or stud	R. Benedict and H. M. Scott	322,152	July 14	1019	265	32	194
Button or stud	G. H. Bowerman	328,565	Oct. 20	1385	361	33	267
Button or stud	L. P. Conard	324,302	Aug. 11	1222	332	32	758
Button or stud	C. H. Cooke	311,474	Feb. 3	16	5	30	351
Button or stud	J. Costello	320,761	June 23	2468	654	31	1523
Button or stud	T. W. Foster	320,390	Nov. 17	1306	347	33	770
Button or stud	J. J. Lindauer	323,167	July 28	2393	635	32	459
Button or stud	N. F. Mathewson	311,194	Jan. 27	1374	377	30	274

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Button or stud	E. R. Procter	333,156	Dec. 29	2750	722	33	1517
Button or stud	T. W. F. Smitten	321,653	July 7	325	86	32	62
Button or stud. Detachable	J. J. Lindauer	310,293	Jan. 6	174	40	30	34
Button. Separable	H. A. Cables	314,795	Mar. 31	2395	634	30	1273
Button. Separable	H. G. Lathrop	324,852	Aug. 25	1982	545	32	914
Button-setting instrument	A. M. English	310,213	June 2	335	90	31	1110
Button-setting instrument	G. T. Fisher	316,025	Apr. 21	1453	379	31	276
Button-setting instrument	W. M. Hazel	333,411	Dec. 29	3102	808	33	1578
Button-setting instrument	E. Kempshall	310,525	Jan. 6	457	126	30	88
Button-setting instrument	E. Kempshall	310,830	Jan. 13	854	232	30	108
Button-setting instrument	J. H. Vinton	332,977	Dec. 22	2494	659	33	1465
Button-setting machine	E. O. Ely	312,987	Feb. 24	2069	565	30	774
Button-setting machine	G. A. Mosher and A. W. Ham	323,717	Aug. 4	435	124	32	604
Button-setting machine	F. H. Richards	326,786	Sept. 22	2121	552	32	1426
Button-setting machine	F. H. Richards	330,925	Nov. 24	1893	538	33	908
Button-setting machine	J. H. Vinton	328,365	Oct. 13	1113	288	33	211
Button-setting machine	E. Woodward	311,457	Jan. 27	1743	475	30	341
Button shank. Metallic	E. N. Foote	327,873	Oct. 6	478	123	33	84
Button shank or eye testing machine	E. R. Parsil	314,052	Mar. 17	1379	360	30	1051
Button-shaping machine	E. Weyerbusch	311,700	Feb. 3	313	85	30	406
Button. Sleeve	S. C. Scott	314,613	Mar. 31	2125	566	30	1223
Button. Sleeve	J. Stadlmeier	327,116	Sept. 29	2572	671	32	1513
Button. Sleeve or collar	J. H. Doll	319,467	June 9	674	181	31	1182
Button. Sleeve or collar	J. Wall	311,048	Jan. 20	1161	317	30	229
Button. Surface-attaching garment	P. H. Walsh	312,046	Feb. 10	789	216	30	503
Buttons. Apparatus for manufacturing covered	H. W. French	323,803	Aug. 4	541	154	32	625
Buttons. Attaching	J. Mathison	326,765	Sept. 22	2091	543	32	1420
Buttons. Attaching	J. Mathison	327,291	Sept. 29	2800	729	32	1555
Buttons. Machine for the manufacture of pearl	E. May	314,596	Mar. 31	2105	561	30	1220
Buttons. Machine for turning pearl	E. May	312,140	Feb. 10	916	349	30	526
Buttons. Manufacture of	A. J. Shipley	317,226	May 5	407	102	31	592
Buttons. Manufacture of pearl	G. Carlyle	311,958	Feb. 10	671	184	30	481
Buttons to cloth or other material. Connecting	J. Keith	330,407	Nov. 17	1329	354	33	774
Buttons to fabrics. Apparatus for attaching	A. G. Wilkins and J. B. Miller	312,668	Feb. 24	1674	461	30	684
Buttons to fabrics. Device for attaching	I. G. Platt	329,336	Oct. 27	2484	641	33	474
Buttons to fabrics. Implement for securing	A. G. Wilkins and J. B. Miller	321,411	June 30	3315	884	31	1625
Buttons to garments. Machine for attaching	R. J. Powell and W. F. Nolan	318,024	May 19	1473	394	31	810
Buttons to wearing-apparel. Setting-instrument for attaching	P. H. Sweet, Jr.	323,466	Aug. 4	107	31	32	542
Buttoner. Collar	R. Fox	322,273	July 14	1100	304	32	220
Buttoner. Shoe	J. L. Sommer	320,714	June 23	2412	639	31	1512
Buttoner. Shoe or glove	G. Havell	322,224	July 14	1175	308	32	223
Cab. Hansom	C. A. Floyd	319,210	June 2	339	90	31	1111
Cab. Hansom	W. Johnstone	331,504	Dec. 1	350	94	35	1061
Cabs. Opening and closing the doors of hansom	F. and C. Forder	325,739	Sept. 8	708	177	32	1152
Cabinet. Combination	S. R. Potter	328,061	Oct. 13	725	189	33	137
Cabinet. Jeweler's	H. Knickmann	331,719	Dec. 1	710	176	33	1124
Cabinet-lock	E. G. Gory	326,972	Sept. 29	2382	623	32	1420
Cabinet-maker's clamp	W. E. Sheldon	319,517	June 9	745	200	31	1194
Cabinets, &c. Self-opening lid for	P. Vandernoth	326,810	Sept. 22	2158	562	32	1432
Cable and car. Traction	J. H. Smith	311,537	Feb. 3	106	31	30	569
Cable. Anti-induction	H. C. Spalding	327,486	Sept. 29	3047	795	32	1596
Cable. Anti-induction	H. C. Spalding	327,487	Sept. 29	3048	795	32	1596
Cable. Anti-induction	H. C. Spalding	327,489	Sept. 29	3050	796	32	1597
Cable. Anti-induction	H. C. Spalding	327,490	Sept. 29	3052	796	32	1597
Cable-armoring machine	W. R. Patterson	330,047	Nov. 10	845	217	33	671
Cable-conduit	H. D. Welsh	322,225	July 14	1107	288	32	211
Cable-conduit for underground cables	D. Kornbau	322,384	July 14	1309	341	32	249
Cable conveyance	C. J. Van Depoele	331,851	Dec. 8	898	223	33	1167
Cable conveyance. Electric	C. J. Van Depoele	329,104	Oct. 27	2144	555	33	411
Cable-coupling	H. F. Gale	320,727	Nov. 3	407	104	33	563
Cable. Elastic tubular	P. Sorgue	322,493	July 21	1470	386	32	223
Cable gravity-road. Elevated	W. N. Keller	318,627	May 26	2273	607	31	965
Cable-grip	D. B. Anders	320,744	June 23	2446	649	31	1519
Cable-grip	J. H. Polhemus	312,507	Feb. 17	1449	397	30	633
Cable-grip	L. B. White	323,374	Dec. 29	3054	786	33	1570
Cable grip attachment. Traction	W. H. Snelson and G. Judge	329,965	Nov. 10	736	187	33	649
Cable-grip. Roller	G. A. Polhemus	322,517	Oct. 20	1313	341	33	235
Cable-hanger	W. R. Patterson	312,753	Feb. 24	1770	487	30	701
Cable or belt tightener	J. H. Whiting	317,692	May 12	1027	266	31	718
Cable or electric railway yoke or frame, &c.	C. Bullock	310,558	Jan. 13	514	141	30	104
Cable-recorder	M. G. Farmer	322,018	July 28	2045	540	32	395
Cable roads. Conduit for	J. Warner	322,766	July 21	1823	482	32	347
Cable tramway	C. M. Huson	312,273	Feb. 17	1108	306	30	569
Cable-ways. Cleaning	T. L. Johnson	333,360	Dec. 29	2909	777	33	1556
Cabled and uncabled conductors. Junction between	E. T. Gilliland	327,080	Sept. 29	2519	657	32	1504
Cables. Apparatus to be used with traction	R. Gornall	325,168	Aug. 25	2399	658	32	990
Cables, electric wires, &c. Underground conduit for	W. Walter	323,241	July 28	2497	663	32	478
Cables. Friction-roller for wire	T. W. Flynn	319,217	June 2	340	91	31	1111
Cables on curves. Supporting traction	W. Heckert	318,621	May 26	2267	605	31	964
Cables or ropes used to propel vehicles. Covering for	C. Bullock	314,995	Apr. 7	12	3	31	4
Cables. Repeater for submarine	M. G. Farmer	312,831	Feb. 24	1872	513	30	719
Cables. Siphon recording-instrument for	W. Dickenson	320,723	Nov. 3	401	103	33	551
Cables. Suspension of aerial	E. T. Gilliland	310,938	Jan. 20	1007	272	30	199
Caddy. Tea or sugar	G. H. Hazelton	313,666	Mar. 10	854	222	30	946

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Cage. Folding stock-shipping.	R. L. Smith and C. P. Miller	318,812	May 26	2527	675	31	1010
Caisson	M. Malbouhan	328,498	Oct. 20	1290	336	33	251
Caisson or crib.	J. McGovern	320,671	June 23	2362	623	31	1501
Cake-machine	D. M. Holmes	323,681	Aug. 4	390	111 112	32	595
Calcimine	K. A. Hobenstein	321,109	June 30	2936		31	1614
Calcimine compound	S. U. Brunck and G. A. Marsh, Jr.	328,645	Oct. 20	1507		33	228
Calcimine compound.	W. K. Powers	322,851	July 21	1943		32	369
Calcing and chloridizing furnace.	W. H. H. Bowers	311,804	Feb. 3	441	119 120	30	431
Calculating device	C. M. Bradt	327,761	Oct. 6	337	86	33	59
Calculating device	A. W. Tucker	331,264	Nov. 24	2462	664	33	992
Calculating-instrument for percentage and proportion.	M. T. Freeman	319,808	June 9	1140	302	31	1266
Calculator	J. V. Charpantier	322,161	July 14	1031	267	32	196
Calculator	W. B. Kennedy and W. M. Nesbit	323,157	July 28	2376	630	32	457
Calculator	J. L. Richardson	315,553	Apr. 14	811	214	31	151
Calculator for measurement of logs. Tabular	C. Rich	331,332	Dec. 1	105	94	33	1017
Calculator. Mechanical board-measure.	R. H. Bulloch	324,078	Aug. 11	909	251	32	699
Calculator. Tabular	F. W. Child	313,658	Mar. 10	843	219	30	943
Calculator. Tabular	F. W. Child. (Reissue)	10,592	May 5	752	190	31	659
Calendar	W. P. Allen	322,171	Oct. 13	868	225	33	164
Calendar	S. J. Cox	327,532	Oct. 6	38	8	33	8
Calendar	J. Cussons	313,996	Mar. 17	1311	342	30	1037
Calendar	W. T. Fenn	322,768	Oct. 20	1654	453	33	317
Calendar	C. W. Frost. (Reissue)	10,648	Sept. 29	3081	802 303	32	1602
Calendar	B. R. Jolly	330,028	Nov. 10	821	211	33	666
Calendar	A. J. Kletzker	323,939	Aug. 11	722	202	32	666
Calendar	T. McCarthy	330,038	Nov. 10	832	213	33	668
Calendar	D. M. McLellan	316,162	Apr. 21	1644	430	31	312
Calendar. Memorandum.	S. L. Horton	328,586	Oct. 20	1414	368	33	273
Calendering-roll.	G. Dunn	324,758	Aug. 18	1846	508	32	881
Calendering-rolls. Entering-guide for	M. H. Cram	333,283	Dec. 29	2934	767 768	33	1549
Caliper, protractor, and bevel. Combined	F. W. Woodhull	325,036	Aug. 25	2928	611	32	959
Calipers	C. H. Alapaw	311,800	Feb. 3	438	118	30	430
Calipers	S. A. Jellott	311,248	Jan. 27	1453	306	30	288
Calipers	F. G. Lilja	310,292	Jan. 6	173	48	30	34
Calipers. Adjustable stop for	I. L. Holmes	315,621	Apr. 14	902	237	31	167
Calipers and dividers	O. Stoddard	314,625	Mar. 21	2148	571	30	1227
Calipers for measuring	W. G. Richards	328,861	Oct. 20	1772	462	33	339
Calipers. Micrometer.	M. M. Barnes	324,804	Aug. 25	1918	527 528	32	933
Calipers. Micrometer.	M. M. Barnes	325,233	Sept. 1	4	2	32	1015
Calipers. Spring.	C. P. Fay	319,215	June 2	338	90	31	1111
Calipers. Spring.	E. S. Field	332,244	Dec. 15	1477	386	33	1276
Calk and hoof-pad. Detachable heel.	J. Dabns	329,627	Nov. 3	278	72	33	558
Calk Driving	E. A. Buck	325,194	Aug. 25	2431	668	32	997
Calk-sharpener	E. H. Fenton	324,991	Aug. 25	2173	504	32	948
Call-box	F. B. Wood	317,912	May 12	1319	353	31	774
Call. Individual	J. Stephen	332,567	Dec. 15	1924	503 504	33	1354
Caloric-engine	M. P. W. Boulton and E. Perrett	311,102	Jan. 20	1243	341	30	243
Cam	H. W. Fowler	315,270	Apr. 7	402	100	31	73
Cam	H. P. Humphrey	329,904	Nov. 10	653	166	33	634
Cam	P. B. Mathiason	332,268	Dec. 15	1507	394	33	1281
Cam or eccentric. Adjustable	W. F. Beardslee	324,639	Aug. 18	1692	466	32	852
Camera.							
See Photographic cam. Portable camera.							
era.							
Camera	W. W. Grant	329,385	Oct. 27	2558	660 661	33	486
Camera and box combined. Adjustable	C. H. Scofield	329,599	Nov. 3	241	83	33	551
Camera-shutter	D. O. Adams	328,980	Oct. 13	619	163	33	119
Camera-shutter	D. S. Hitchcock	328,033	Oct. 13	683	180	33	131
Camera-stand	W. H. Lewis	312,363	Feb. 17	1242	342	30	504
Camera-stand	L. Noble	327,895	Oct. 6	500	130	33	89
Camera-stand	J. H. Smith	317,230	May 5	410	103	31	598
Camera-tripod joint	D. T. Kendrick	318,480	May 26	2072	550	31	930
Cameras. Instantaneous shutter for	H. W. Kellogg	315,296	Apr. 7	432	109	31	78
Camp chair or hammock. Adjustable	A. O. Hubbard	327,441	Sept. 29	2998	783	32	1588
Can:							
See Collapsible can.	Oil-can.						
Cracker-can.	Oiling-can.						
Creaming-can.	Self-opening can.						
Ice-cream can.	Sheet-metal can.						
Meat-shipping can.	Shipping-can.						
Milk-can.	Tin can.						
Milk-cooling can.	Transportation-can.						
Can	E. C. Hazard	314,839	Mar. 31	2449	647	30	1287
Can	T. Yapp	317,957	May 12	1377	370	31	785
Can and ejector. Combined	O. P. Pell	333,250	Dec. 29	2890	756	33	1541
Can-cleansing machine	E. Jordan	328,892	Oct. 20	1815	473	33	346
Can-fastener	F. J. Headley	315,280	Apr. 7	416	104	31	75
Can-filling machine	J. G. Hoskins	315,622	Apr. 14	903	237	31	168
Can-filling machine	E. S. Judge	320,363	June 16	1937	510	31	1414
Can-filling machine	W. H. H. Stevenson	314,352	Mar. 24	1779	473	30	1134
Can-heading machine	F. A. Walsh	321,263	June 30	3120	830 831 832	31	1648
Can-opener	C. W. Acker	333,190	Dec. 29	2803	734	36	1524
Can-opener	I. N. Arment	327,983	Oct. 13	621	163	33	119

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Can-opener.....	J. C. Dodge.....	324,019	Aug. 11	820	227	32	684
Can-opener.....	C. S. Loddell.....	313,351	Mar. 3	444	112	30	858
Can-opener.....	R. O. Miscner.....	323,193	July 28	2435	645	32	467
Can-opener.....	H. Sauerbier.....	325,770	Sept. 8	748	187	32	1160
Can-opener.....	R. G. Tippet.....	331,923	Dec. 8	1012	262	33	1188
Can or receptacle.....	M. H. Garland.....	325,925	Sept. 8	934	237	32	1195
Can-testing machine.....	J. E. and W. S. Reynolds.....	330,924	Nov. 24	1991	538	33	907
Can watering-machine.....	A. R. Merrell.....	312,648	Feb. 24	1623	447	30	675
Cans. Attachment for coal-oil.....	A. E. Fox.....	325,068	Aug. 25	2270	694	32	968
Cans, &c. Bottom for.....	T. Burkhard.....	317,620	May 12	934	239	31	700
Cans. Closing.....	P. Babcock, Jr.....	321,568	July 7	221	59	32	44
Cans. Closing kerosene and other.....	H. Miller.....	312,372	Feb. 17	1253	345	30	596
Cans. Fancet attachment for shipping.....	J. Marshall.....	318,637	May 26	2285	610	31	968
Cans, &c. Filling-machine for.....	J. J. Gorman.....	310,268	Jan. 6	143	40	30	28
Cans, &c. Implement used in the manufacture of.....	H. G. Filson.....	327,247	Sept. 29	2744	712	32	1545
Cans. Screw-cap for metal.....	A. F. Cooper.....	314,227	Mar. 24	1609	425	30	1102
Cans. Screw-top for oil and other.....	J. F. Bly and C. R. Cipperly.....	316,001	Apr. 21	1422	370	31	271
Cans. Testing sealed.....	M. C. Hutchings.....	314,180	Mar. 17	1549	406	30	1080
Cans with liquid. Filling fruit.....	W. H. H. Stevenson.....	325,131	Aug. 25	2247	647	32	982
Canned fish and method of canning.....	J. H. G. Walkhoff.....	325,997	Sept. 8	1031		32	1212
Canning apparatus.....	J. Kinney.....	331,065	Nov. 24	2162	587	33	940
Canning apparatus. Fruit.....	W. H. Austin.....	313,975	Mar. 17	1293	337	30	1033
Canal and navigating the same.....	J. Nougues, Fils aîné.....	319,303	June 2	447	121	31	1132
Canal-convey.....	W. F. Cowden.....	323,639	Aug. 4	340	96	32	565
Candle.....	H. L. Brevoort.....	310,874	Jan. 20	913		30	184
Candle-extinguisher.....	B. M. O'Boylan.....	329,765	Nov. 3	457	115	33	501
Candle-machine.....	G. Roth.....	314,347	Mar. 24	1774	472	30	1132
Candle-machine.....	C. L. Werk.....	319,156	June 2	971	72	31	1097
Candle-molding machine.....	L. Homan.....	333,013	Dec. 22	2554	672	33	1475
Candles. Apparatus for automatically extinguish- ing.....	L. C. Pinel.....	312,291	Feb. 17	1149	314	30	577
Candles. Apparatus for shaping and finishing.....	A. F. Baumer.....	330,200	Nov. 10	1045	272	33	712
Candlestick.....	H. Anlauf.....	315,695	Apr. 14	992	260	31	186
Candlestick.....	E. Carpenter.....	316,740	Apr. 22	2440	635	31	461
Candlestick.....	J. C. Schlarbaum.....	322,753	July 21	1807	476	32	344
Candlestick. Miner's.....	T. Cox.....	321,798	July 7	532	140	32	99
Candy-machine.....	W. E. Henry.....	314,529	Mar. 24	2030	539	30	1177
Candy-machine.....	D. M. Holmes.....	323,682	Aug. 4	303		32	596
Candy. Machine for making stick.....	T. E. Copelin.....	313,061	Mar. 3	35	9	30	784
Candy. Machine for the manufacture of stick.....	J. J. Cousins.....	318,454	May 26	2040	551	31	924
Candy. Translucent picture.....	J. J. Van Leenwen.....	322,667	Oct. 20	1778		33	340
Cane.....	D. Crowley.....	325,198	Aug. 25	2439	970	32	998
Cane. Apparatus for treating sugar.....	J. Dierks and T. B. Kail.....	324,093	Aug. 11	928	256	32	703
Cane-juice evaporator.....	H. J. Chapin.....	321,006	June 30	2795	743	31	1590
Cane. Machine for slicing sugar.....	W. E. Butler.....	318,866	May 26	2606	691	31	1024
Cane-mill.....	E. Schulze.....	323,742	Aug. 4	468	133	32	611
Cane-scraper.....	J. Bennyworth.....	312,072	Feb. 10	825	225	30	510
Cane-scraper.....	A. R. Gourrier and J. M. Thompson.....	327,676	Oct. 6	241	59	33	42
Cane-scraper.....	T. P. Himel.....	324,258	Aug. 11	1163	316	32	746
Cane scraper and pea-vine harvester. Sugar.....	J. F. Wood.....	321,562	July 7	214	56	32	42
Cane top and leaf cutter. Sugar.....	E. Lobeck.....	330,135	Nov. 10	966		33	696
Canes or umbrellas. Box-handle for.....	L. Steinberger.....	331,095	Nov. 24	2207	597	33	948
Canister.....	C. M. Symonds.....	311,608	Feb. 3	302	82	30	406
Canister. Sheet-metal.....	J. H. Preater.....	323,423	Dec. 29	3119	814	33	1581
Cannon. Pneumatic.....	W. G. Benedict.....	314,991	Apr. 7	5	2	31	4
Cannon. Pneumatic.....	D. M. Mofford.....	314,298	Mar. 24	1711	455	30	1121
Canopy.....	W. M. A. Cole.....	326,849	Sept. 22	2208	576	32	1442
Canopy. Umbrella or parasol.....	W. H. Belknap.....	315,224	Apr. 7	347	85	31	63
Canthook.....	T. W. Cassidy.....	326,851	Sept. 29	2258	616	32	1475
Canthook.....	H. C. Crawford and E. V. Mundy.....	325,058	Aug. 25	2255	619	32	965
Canthook.....	A. Drown.....	324,095	Aug. 11	930	257	32	703
Canthook.....	J. Winebrenner.....	319,373	June 2	533	145	31	1149
Cantalever.....	B. F. Davis.....	311,064	Jan. 20	1188	396	30	233
Canteen.....	T. F. Kelly.....	321,730	July 7	425	113	32	79
Canvas and folding the edges thereof. Machine for slitting.....	A. M. Cutler.....	316,337	Apr. 21	1863	493	31	550
Canvas and other fabrics. Machine for testing.....	J. F. O'Connor.....	314,465	Mar. 24	1920	513	30	1161
Cap.....	S. Simonson.....	317,031	May 5	121	33	31	546
Cap for exploding dynamite.....	J. Paulus.....	323,524	Aug. 4	186	54	32	557
Cap or cover. Sheet-metal screw.....	S. Adlam.....	332,772	Dec. 22	2221	585	33	1415
Cap. Sheet-metal.....	F. W. Perry.....	331,999	Dec. 8	1112	290	33	1206
Caps. Mechanism for shearing.....	T. Hanford and J. E. McLoughlin.....	323,869	Aug. 4	624	175	32	641
Capstan.....	S. T. Richardson.....	311,372	Jan. 27	1635	448	30	321
Capstan.....	A. R. Young.....	325,143	Aug. 25	2260		32	984
Capsule-cutter.....	J. Krehbiel.....	312,361	Feb. 17	1240	341	30	594
Capsule-cutter.....	J. Krehbiel.....	313,601	Mar. 10	768	202	30	929
Capsule-cutting machine.....	W. A. Tucker.....	313,132	Mar. 3	191	30	30	799
Capsule-filler.....	W. H. Auach and A. J. White.....	317,482	May 12	757	193	31	689
Capsule for bottles.....	W. R. Clough.....	332,392	Dec. 15	1668	437	33	1310
Capsule for medicines, wines, &c.....	C. L. Jensen.....	330,491	Nov. 17	1437	384	33	795
Capsule-joining machine.....	T. C. Merz.....	326,578	Sept. 22	1797	472	32	1370
Capsule-machine.....	F. A. Hubel and F. J. Reinhold.....	311,835	Feb. 3	421		30	439
Capsule-machine.....	J. Krehbiel.....	315,415	Apr. 7	597	153	31	107
Capsule-machine.....	J. Krehbiel.....	315,416	Apr. 7	598		31	107
Capsule-machine.....	J. Krehbiel.....	315,417	Apr. 7	601		31	108
Capsule-machine.....	J. Krehbiel.....	332,304	Dec. 8	1413	364	33	1258
Capsule-machine.....	T. C. Merz.....	324,668	Aug. 25	2007	551	32	918

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Capsule-machine	F. J. Reinhold	323,886	Aug. 4	647	183	32	645
Capsule-machine	H. H. Taylor	311,860	Feb. 3	516	140	30	445
Capsule-machine	H. H. Taylor	323,753	Aug. 4	482	136 137	32	614
Capsule-machine	W. A. Tucker	328,623	Oct. 20	1476	384 385	33	283
Capsule-mold pins. Machine for greasing	F. A. Hubel and F. Reinhold	311,659	Feb. 3	263	73	30	398
Capsule-stripping device	J. Krebbiel	323,150	July 28	2378	630	32	457
Capsules. Device for stirring melted gelatine for making	F. A. Hubel and F. Reinhold	316,896	Apr. 28	2661	603	31	502
Car and seat	G. Buntin	316,735	Apr. 28	2434	633 634	31	460
Car and scow. Dumping	W. Fallon	330,101	Nov. 10	921	239	33	687
Car-bearing	F. G. Susemihl	311,618	Feb. 3	212	60	30	388
Car-body truss	J. Stephenson	311,541	Feb. 3	114	33	30	370
Car-body truss	J. Stephenson	317,683	May 12	1012	263	31	715
Car-body truss	J. Stephenson	319,525	June 9	753	202	31	1196
Car-body truss	J. Stephenson	319,526	June 9	754	202	31	1196
Car-brake	G. L. Adams	326,191	Sept. 15	1299	336	32	1268
Car-brake	J. R. Baker	314,417	Mar. 24	1861	495	30	1150
Car-brake	W. Bandel	326,883	Sept. 22	2256	688	32	1450
Car-brake	A. Bixby	327,430	Sept. 29	2264	779 780	32	1586
Car-brake	L. Brauer	314,422	Mar. 24	1866	497	30	1151
Car-brake	W. M. Brisbane	332,324	Dec. 15	1582	415	33	1295
Car-brake	G. P. Campbell	317,088	May 5	209	53	31	561
Car-brake	C. E. Candee	312,429	Feb. 17	1328	366	30	611
Car-brake	C. M. Carnahan	322,899	July 28	2017	533	32	389
Car-brake	I. H. Congdon	314,225	Mar. 24	1607	424	30	1101
Car-brake	A. J. Cromwell	317,315	May 5	525	134	31	620
Car-brake	C. E. Currie	316,879	Apr. 28	2630	685	31	496
Car-brake	P. H. Curtner and C. C. Genung	313,186	Mar. 3	224	55	30	818
Car-brake	P. H. Curtner and C. C. Genung	318,419	May 19	1992	536	31	907
Car-brake	J. M. T. Daudelin	322,585	July 21	1591	420	32	304
Car-brake	A. C. Dodge	324,306	Aug. 11	1223	336	32	760
Car-brake	S. Fairman	321,428	July 7	22	5	32	7
Car-brake	E. Gardner	324,548	Aug. 18	1553	428	32	827
Car-brake	F. S. Gerrard	323,507	Aug. 4	163	48	32	553
Car-brake	W. Gill	321,432	July 7	24	6	32	8
Car-brake	C. S. Hart	322,597	July 21	1604	424	32	307
Car-brake	L. H. and J. J. Hébert	320,351	June 16	1921	506	31	1411
Car-brake	J. J. Henry	315,780	Apr. 14	1119	294	31	210
Car-brake	J. J. Henry	325,209	Aug. 25	2454	675	32	1002
Car-brake	L. C. Huber	310,435	Jan. 6	353	96	30	68
Car-brake	A. L. Kirkland	329,840	Nov. 3	565	143	33	610
Car-brake	F. O. Landgrane	321,507	July 7	129	34	32	26
Car-brake	K. H. H. Leineweber	317,553	May 12	843	217	31	684
Car-brake	K. H. H. Leineweber	317,554	May 12	844	217	31	685
Car-brake	J. F. Mallinckrodt	329,462	Nov. 3	42	12	33	512
Car-brake	J. F. Mallinckrodt	329,464	Nov. 3	45	12	33	513
Car-brake	J. F. Mallinckrodt	329,465	Nov. 3	46	13	33	513
Car-brake	R. R. Marsh	324,714	Aug. 18	1787	493	32	670
Car-brake	W. H. Mason	330,573	June 23	2224	590	31	1476
Car-brake	C. L. Matthews	329,328	Oct. 27	2469	658	33	471
Car-brake	J. Melanson	328,959	Oct. 27	1928	502	33	371
Car-brake	S. E. Mosher and L. B. Lyons	328,963	Oct. 27	1755	504	33	374
Car-brake	E. F. W. Müller	322,959	July 28	2103	560	32	406
Car-brake	J. S. Naery	310,562	Apr. 28	215	573	31	413
Car-brake	A. Reese	321,757	July 7	472	125	32	88
Car-brake	J. W. Rice	322,127	July 14	983	256	32	188
Car-brake	E. J. Roberts	310,829	Apr. 23	2559	670	31	484
Car-brake	T. Shaw	311,262	Jan. 27	1475	403	30	292
Car-brake	C. L. Sledge	322,490	July 21	1464	385	32	282
Car-brake	F. Stalder	324,046	Aug. 11	863	239	32	691
Car-brake	C. W. Stringham	310,965	Jan. 20	1047	224	30	206
Car-brake	F. G. Susemihl	321,397	June 30	3293	880	31	1682
Car-brake	H. M. Taaffe	326,666	Sept. 22	1923	505	32	1391
Car-brake	H. Walter	315,982	Apr. 14	1396	362	31	259
Car-brake	C. A. Wescott and E. R. Bristol	321,070	June 30	2285	767	31	1606
Car-brake	W. R. Wilcox	328,098	Oct. 13	773	202	33	146
Car-brake	S. T. Williams	322,337	July 14	1241	325	32	236
Car-brake	C. F. Wohlfarth and C. W. Wakefield. (Reissue.)	10,671	Dec. 8	1446	373	33	1264
Car brake and starter	B. F. Bergh	315,704	Apr. 14	1002	264	31	188
Car brake and starter	W. M. Cass	333,109	Dec. 29	2693	706	33	1506
Car brake and starter	E. L. Heidenreich	321,218	June 30	3067	814	31	1639
Car brake and starter	A. L. Higley	315,620	Apr. 14	901	236	31	167
Car brake and starter	J. H. Müller	323,354	July 28	2265	710	32	507
Car-brake. Automatic	F. H. Agnew and R. R. Hice	328,372	Oct. 13	1126	290 291	33	213
Car-brake. Automatic	J. H. Ames	318,076	May 19	1543	413	31	823
Car-brake. Automatic	M. Armstrong	313,154	Mar. 3	155	38	30	805
Car-brake. Automatic	W. Clayton	315,125	Apr. 7	182	45	31	33
Car-brake. Automatic	J. B. Gathright	323,650	Aug. 4	368	105	32	591
Car-brake. Automatic	P. Hanson	324,375	Aug. 18	1325	360 361	32	785
Car-brake. Automatic	P. Hien	313,734	Mar. 10	944	244 245	30	962
Car-brake. Automatic	G. B. McLaughlin	318,775	May 26	2471	662 663	31	1002
Car-brake. Automatic	J. L. Munday	325,215	Aug. 25	2461	677	32	1003
Car-brake. Automatic	R. Randolph	322,944	Dec. 22	2447	648	33	1458
Car-brake. Automatic	S. W. Robinson	317,850	May 12	1246	330	31	729

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Car-brake. Automatic	S. W. Robinson	317,860	May 12	1247	{ 330 331	{ 31	760
Car-brake. Automatic	C. V. Rote	317,954	May 12	1372	{ 368 369	{ 31	784
Car-brake. Automatic	H. M. Taaffe	326,667	Sept. 22	1924	{ 506 701	{ 32	1391
Car-brake. Automatic	W. B. Turner and C. Beard	314,983	Mar. 31	2651	{ 702 703	{ 30	1318
Car-brake. Automatic	R. B. Vanderburg	322,082	July 14	923	239	32	176
Car-brake. Automatic	W. A. Wilde	323,766	Aug. 4	503	141	32	617
Car-brake. Automatic	W. A. Wilde	328,870	Oct. 20	1788	{ 464 465	{ 33	340
Car-brake clamp	C. A. Fuller	322,536	July 21	1520	400	32	293
Car-brake. Electric	C. E. Jones	324,774	Aug. 18	1869	514	32	886
Car-brake. Electro-magnetic	E. B. Hess	324,470	Aug. 18	1449	396	32	807
Car-brake. Electro-magnetic	H. S. Park	314,709	Mar. 31	2249	598	30	1246
Car-brake. Street	J. F. Mallinckrodt	329,463	Nov. 3	44	12	33	513
Car-brakes. Apparatus for operating	J. S. Badia	325,474	Sept. 1	344	84	32	1081
Car-brakes. Operating	G. W. Darby	315,012	Apr. 7	36	8	31	8
Car-brakes. Slack-adjuster for	D. McLeod	330,251	Nov. 10	1105	293	33	724
Car-bumper	R. A. Cowell	319,796	June 9	1119	297	31	1262
Car-bumper	N. P. Cowell	333,447	Dec. 29	3148	822	33	1585
Car. Cable-railway grip	S. W. Jackson	329,170	Oct. 27	2235	579	33	427
Car canopy. Horse	F. H. Dibble	310,992	Jan. 20	1085	297	30	215
Car. Cattle	J. A. Bryan and J. B. Fielding	328,915	Oct. 27	1859	485	33	361
Car closet. Railway	J. D. Evans and G. Bogart	321,958	July 14	756	197	32	145
Car. Coal	D. S. Dockstader	314,656	Mar. 31	2191	581	30	1235
Car. Combined grain and oil	J. R. Gathright	313,932	Mar. 17	1238	322	30	1023
Car. Combined ventilated vegetable and stock	M. T. Taylor	332,021	Dec. 8	1141	{ 298 299	{ 33	1211
Car-coupler	E. Dederick	329,025	Oct. 27	2035	528	33	292
Car-coupling	G. M. Adams	321,935	July 14	729	191	32	141
Car-coupling	C. A. Akerly and D. T. Easton	316,103	Apr. 21	1564	407	31	296
Car-coupling	P. A. Aikman	331,467	Dec. 1	307	82	33	1032
Car-coupling	E. W. Allee	322,330	July 14	1243	326	32	237
Car-coupling	C. A. Anderson	322,887	July 28	2004	529	32	387
Car-coupling	L. Anderson	321,271	June 30	3133	835	31	1651
Car-coupling	J. S. Andrews	313,044	Mar. 3	6	2	30	789
Car-coupling	J. C. Averill	313,702	Mar. 10	898	234	30	954
Car-coupling	J. R. Avery	315,884	Apr. 14	1259	328	31	234
Car-coupling	J. R. Avery	330,284	Nov. 10	1149	{ 306 307	{ 33	732
Car-coupling	J. W. Baker	311,711	Feb. 3	326	90	30	410
Car-coupling	F. Baldt	316,323	Apr. 21	1847	488	31	347
Car-coupling	O. Bangs	318,228	May 19	1741	406	31	861
Car-coupling	J. Barry	322,672	July 21	1698	450	32	326
Car-coupling	D. C. Barton	310,553	Jan. 13	507	140	30	103
Car-coupling	L. Bates	333,051	Dec. 22	2604	682	33	1484
Car-coupling	H. T. Beam	311,281	Jan. 27	1512	413	30	299
Car-coupling	H. T. Beam	317,264	May 5	482	181	31	611
Car-coupling	H. T. Beam	318,591	May 26	2235	597	31	558
Car-coupling	H. T. Beam	319,174	June 2	291	78	31	1101
Car-coupling	U. Beaunejour	313,977	Mar. 17	1295	337	30	1034
Car-coupling	C. M. Bennett	314,421	Mar. 24	1866	497	30	1151
Car-coupling	J. C. Blocher	333,439	Dec. 29	3136	820	33	1583
Car-coupling	G. W. Bolton	321,677	July 7	357	94	32	67
Car-coupling	C. W. Bond	315,594	Apr. 14	863	227	31	160
Car-coupling	W. R. Bowman	329,262	Oct. 27	2370	613	33	454
Car-coupling	J. C. Boyle	317,082	May 5	201	50	31	560
Car-coupling	I. H. Bradshaw	332,670	Dec. 22	2355	622	33	1438
Car-coupling	S. U. Branstetter	326,622	Sept. 22	1868	489	32	1380
Car-coupling	P. Brinkerhoff	329,266	Oct. 27	2374	614	33	454
Car-coupling	E. M. Brown	321,276	June 30	3139	836	31	1652
Car-coupling	W. J. Brown	325,155	Aug. 25	2375	654	32	987
Car-coupling	T. E. Buckman	329,358	Oct. 27	2518	649	33	479
Car-coupling	F. Bueckhardt	313,983	Mar. 17	1300	339	30	1035
Car-coupling	C. C. Burton	328,458	Oct. 20	1245	323	33	242
Car-coupling	F. R. Butterfield	327,066	Sept. 29	2498	652	32	1501
Car-coupling	J. Button	319,389	June 2	553	150	31	1153
Car-coupling	J. Button	330,820	Nov. 17	1850	499	33	874
Car-coupling	J. K. Bywater	310,788	Jan. 13	803	218	30	158
Car-coupling	M. C. Cannan	318,958	June 2	38	10	31	1055
Car-coupling	D. Carlough	325,819	Sept. 8	818	205	32	1172
Car-coupling	A. W. Case	316,114	Apr. 21	1580	410	31	300
Car-coupling	F. A. Casey	326,401	Sept. 15	1579	{ 410 411	{ 32	1321
Car-coupling	C. A. Chamberlain	315,908	Apr. 14	1298	338	31	241
Car-coupling	C. A. Chamberlain	332,380	Dec. 15	1663	{ 435 436	{ 33	1309
Car coupling	A. J. Chapel	317,725	May 12	1062	277	31	725
Car-coupling	A. B. Clinton	315,004	Apr. 7	24	6	31	7
Car-coupling	G. H. Colby	329,537	Nov. 3	156	39	33	535
Car-coupling	J. H. Conn	315,911	Apr. 14	1303	339	31	242
Car-coupling	P. F. Corbett	316,011	Apr. 21	1435	374	31	273
Car-coupling	P. V. Cornils	323,278	July 28	2545	676	32	427
Car-coupling	N. P. and R. A. Cowell and J. F. Herrick	319,883	June 9	1245	328	31	1283
Car-coupling	W. C. Cowen	324,366	Aug. 18	1313	357	32	783
Car-coupling	J. A. Craig	315,602	Apr. 14	872	229	31	162
Car-coupling	M. Cramer	320,335	June 16	1891	497	31	1406
Car-coupling	W. Crane	324,814	Aug. 25	1931	531	32	904
Car-coupling	J. Cuneo	328,388	Oct. 13	1155	298	33	218
Car-coupling	P. Currie	316,607	Apr. 28	2236	580	31	425
Car-coupling	G. W. Curtis	327,534	Oct. 6	43	9	33	9

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Car-coupling	G. W. Curtis, A. G. Darwin, and C. C. Davis.	327,661	Oct. 6	221	55	33	39
Car-coupling	G. W. Curtis and J. Wood, Jr.	321,344	June 30	3219	858	31	1668
Car-coupling	A. A. Dailey	317,316	May 5	527	134	31	620
Car-coupling	T. R. Daniel	325,398	Sept. 1	249	62	32	1062
Car-coupling	M. A. Davidson and S. F. Sanders	315,131	Apr. 7	189	46	31	35
Car-coupling	E. W. Davis	320,337	June 16	1892	497	31	1406
Car-coupling	T. D. Davis	327,387	Sept. 29	2931	765	32	1576
Car-coupling	T. T. and J. M. Deavenport	316,446	Apr. 28	2038	534	31	387
Car-coupling	W. F. Denney	316,128	Apr. 21	1602	418	31	304
Car-coupling	J. C. Doerr	327,869	Oct. 6	469	122	33	83
Car-coupling	W. Dorr	319,208	June 2	328	87	31	1109
Car-coupling	B. H. Downer and C. A. Beach	311,730	Feb. 3	348	96	30	414
Car-coupling	W. Dunn	315,015	Apr. 7	40	8	31	9
Car-coupling	P. F. Durooss and G. Sutton	317,981	May 19	1416	390	31	800
Car-coupling	J. H. Dymond	325,200	Aug. 25	2441	671	32	999
Car-coupling	J. H. Earles	324,013	Aug. 11	822	227	32	684
Car-coupling	D. K. Eastman	318,969	June 2	55	14	31	1058
Car-coupling	N. B. Eccleston	320,767	June 23	2475	655	31	1525
Car-coupling	D. P. Edgar	311,651	Feb. 3	254	70	30	336
Car-coupling	W. Emmett	328,928	Oct. 27	1876	490	33	364
Car-coupling	A. L. Erler	322,814	July 21	1783	489	32	358
Car-coupling	A. W. Eslecock	325,518	Sept. 1	411	101	32	1094
Car-coupling	A. W. Eslecock and F. M. Eames	325,517	Sept. 1	410	101	32	1094
Car-coupling	M. Fennell	321,014	June 30	2203	746	31	1592
Car-coupling	G. J. Ferguson	325,923	Sept. 8	932	236	32	1195
Car-coupling	J. W. Ferguson	312,110	Feb. 10	873	239	30	519
Car-coupling	H. Field, Jr.	322,591	July 21	1596	421	32	306
Car-coupling	H. I. Fink	328,303	Oct. 13	1028	266	33	194
Car-coupling	J. Fish	326,415	Sept. 15	1596	415	32	1324
Car-coupling	G. Forbes	328,931	Oct. 27	1882	491	33	365
Car-coupling	W. Forbes	325,830	Sept. 8	828	207	32	1174
Car-coupling	J. Fuller	315,401	Apr. 7	574	148	31	103
Car-coupling	J. G. Gammon	326,421	Sept. 15	1602	417	32	1326
Car-coupling	E. N. Gifford	326,225	Sept. 15	1428	372	32	1292
Car-coupling	J. T. Gilchrist	312,345	Feb. 17	1223	336	30	501
Car-coupling	H. A. Giles	331,126	Nov. 24	2253	612	33	956
Car-coupling	J. Gilmer	313,200	Mar. 3	237	60	30	821
Car-coupling	J. Goettel and W. F. Howe	315,495	Apr. 14	717	189	31	134
Car-coupling	A. Goldsmith	323,664	Aug. 4	372	106	32	592
Car-coupling	H. Graham	317,120	May 5	257	64	31	570
Car-coupling	C. H. Grambs	325,798	Sept. 8	782	197	32	1166
Car-coupling	D. U. Graveline	324,660	Aug. 18	1743	480	32	862
Car-coupling	S. F. Green	318,107	May 19	1583	423	31	831
Car-coupling	J. L. Griffin	317,342	May 5	565	144	31	626
Car-coupling	W. J. Hadden	312,114	Feb. 10	885	241	30	520
Car-coupling	E. T. Hall	328,584	Oct. 20	1411	367	33	272
Car-coupling	W. F. Hall	330,233	Nov. 10	1063	286	33	720
Car-coupling	J. T. Hammick	321,598	July 7	260	69	32	50
Car-coupling	J. Hampl and D. Jacobs	318,124	May 19	1677	450	31	849
Car-coupling	J. B. Hannay and J. Cowan	323,142	July 28	2350	625	32	453
Car-coupling	M. Harmon	324,108	Aug. 11	946	260	32	706
Car-coupling	J. M. Harrison and L. N. White	310,511	Jan. 6	442	122	30	86
Car-coupling	J. H. Hayes	319,250	June 2	383	102	31	1120
Car-coupling	J. Hirm	331,639	Dec. 1	599	148	33	1102
Car-coupling	R. Hitchcock	314,577	Mar. 31	2084	557	30	1210
Car-coupling	J. J. Hogan and R. A. Miller	320,062	June 16	1495	395	31	1337
Car-coupling	G. W. Hoover	319,253	June 2	3-7	103	31	1121
Car-coupling	L. D. Hoover	330,120	Nov. 10	948	246	32	692
Car-coupling	A. A. Hopper	316,540	Apr. 28	2157	567	31	410
Car-coupling	J. Horsley and S. T. Jull	326,218	Sept. 15	1337	346	32	1276
Car-coupling	E. Howe	326,741	Sept. 22	2058	535	32	1414
Car-coupling	J. W. Hughes	317,363	May 5	588	151	31	631
Car-coupling	R. R. Hunt	323,812	Aug. 4	552	156	32	627
Car-coupling	W. J. Hutson	312,353	Feb. 17	1232	359	30	592
Car-coupling	G. F. Jackson	323,154	July 28	2371	629	32	456
Car-coupling	A. J. Jernagan	326,085	Sept. 8	1152	293	32	1235
Car-coupling	J. W. Johnson	328,725	Oct. 20	1676	436	33	321
Car-coupling	M. Joo	312,861	Feb. 24	1913	524	30	726
Car-coupling	W. F. Julian	313,871	Mar. 17	1143	298	30	1006
Car-coupling	L. D. Kemmerer	326,040	Sept. 8	1067	277	32	1222
Car-coupling	O. S. King	311,012	Jan. 20	1111	303	30	219
Car-coupling	O. S. King	315,514	Apr. 14	744	197	31	139
Car-coupling	W. H. Knight	331,066	Nov. 24	2162	587	33	941
Car-coupling	J. P. Koontz	328,040	Oct. 13	693	183	33	132
Car-coupling	A. H. Lea	315,151	Apr. 7	227	55	31	41
Car-coupling	J. P. Leech	312,362	Feb. 17	1240	341	30	514
Car-coupling	C. Leidy and C. E. Green	313,210	Mar. 3	859	65	30	824
Car-coupling	J. N. Leroux	321,372	June 30	3259	870	31	1676
Car-coupling	P. Lindo	325,947	Sept. 8	963	245	32	1201
Car-coupling	I. Linthicum	315,801	Apr. 14	1144	300	31	215
Car-coupling	J. A. Looper	318,767	May 26	2464	660	31	1001
Car-coupling	A. T. Lott	332,617	Dec. 15	1996	523	33	1367
Car-coupling	A. C. Lübbert, H.	311,663	Feb. 3	267	74	30	399
Car-coupling	C. L. Mack	321,987	July 14	793	207	32	153
Car-coupling	H. C. Magruder	315,804	Apr. 14	1147	301	31	215
Car-coupling	S. G. Marsh	330,601	Nov. 17	1568	421	33	820
Car-coupling	O. D. D. Martin	315,647	Apr. 14	933	244	31	174
Car-coupling	B. A. Maxey	310,556	Apr. 28	2169	571	31	412
Car-coupling	C. S. Maynard	332,353	Dec. 15	1621	425	33	1302

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Car-coupling	J. E. Mazelin	320,609	June 23	2360	623	31	1501
Car-coupling	S. F. McAllister	332,544	Dec. 15	1896	495	33	1348
Car-coupling	M. W. McCann	310,687	Jan. 13	690	189	30	137
Car-coupling	M. G. McCarty	319,002	June 2	90	93	31	1064
Car-coupling	J. H. McCormick	316,800	Apr. 28	2518	657	31	476
Car-coupling	J. McCoy	321,127	June 30	2955	783	31	1617
Car-coupling	J. McCreedy	315,048	Apr. 7	85	20	31	17
Car-coupling	J. McGehee	324,138	Aug. 11	987	272	32	714
Car-coupling	T. L. McKeen	325,847	Sept. 8	846	212	32	1178
Car-coupling	T. L. McKeen	325,848	Sept. 8	847	212	32	1178
Car-coupling	W. S. Mead	318,777	May 26	2476	663	31	1003
Car-coupling	C. D. Meigs	326,442	Sept. 15	1629	426	32	1330
Car-coupling	R. A. Merrow	320,152	June 16	1619	431	31	1358
Car-coupling	O. C. Meusebach	325,851	Sept. 8	851	214	32	1179
Car-coupling	O. J. Michaels	326,892	Sept. 22	2255	587	32	1450
Car-coupling	A. Middleton	325,953	Sept. 8	971	247	32	1202
Car-coupling	W. S. Miner	314,045	Mar. 17	1372	358	30	1049
Car-coupling	H. Mooers	323,950	Aug. 11	733	205	32	668
Car-coupling	S. Moorman	331,317	Dec. 1	82	20	33	1014
Car-coupling	B. B. Morgan	325,957	Sept. 8	976	248	32	1203
Car-coupling	R. T. Morrison, Jr.	323,195	July 28	2438	646	32	468
Car-coupling	W. Müller	311,667	Feb. 3	270	75	30	399
Car-coupling	C. O. Myers	310,535	Jan. 6	479	134	30	92
Car-coupling	A. S. Neal	312,152	Feb. 10	945	257	30	532
Car-coupling	J. W. Neal	325,622	Sept. 1	538	136	32	1117
Car-coupling	W. H. Newlon	323,951	Aug. 11	734	205	32	669
Car-coupling	T. Nicholas	313,680	Mar. 10	866	226	30	948
Car-coupling	H. A. Niehans	317,178	May 5	338	85	31	585
Car-coupling	P. J. Norton	324,269	Aug. 11	1181	321	32	750
Car-coupling	J. W. Nunamaker	312,916	Feb. 10	1035	284	30	547
Car-coupling	A. Nutting	330,416	Nov. 17	1339	350	33	776
Car-coupling	T. B. Nutting, Sr.	320,338	June 16	1983	521	31	1424
Car-coupling	E. B. Oakley	314,048	Mar. 17	1376	359	30	1050
Car-coupling	J. O'Brien	320,955	June 30	2721	723	31	1578
Car-coupling	J. G. Ogden	310,460	Jan. 6	378	105	30	74
Car-coupling	E. F. O'Haver	323,720	Aug. 4	440	125	32	605
Car-coupling	E. F. O'Haver	323,147	Dec. 29	2747	721	33	1515
Car-coupling	J. Osford	317,182	May 5	341	66	31	585
Car-coupling	F. J. Papineau, Jr.	333,025	Dec. 22	2673	677	33	1479
Car-coupling	P. J. Payn	312,156	Feb. 10	954	260	30	533
Car-coupling	G. D. Pearson	332,430	Dec. 15	1731	453	33	1320
Car-coupling	W. V. Perry	310,720	Jan. 13	718	196	30	142
Car-coupling	J. Phelps	327,014	Sept. 29	2432	636	32	1490
Car-coupling	D. Powell	333,154	Dec. 29	2757	723	33	1516
Car-coupling	D. V. Putnam	327,018	Sept. 29	2437	637	32	1490
Car-coupling	J. Raddin	313,527	Mar. 10	672	176	30	911
Car-coupling	J. T. Rainey	317,196	May 5	368	92	31	590
Car-coupling	E. Ransom	325,114	Aug. 25	2324	640	32	978
Car-coupling	P. F. Raudebaugh	328,251	Oct. 13	961	250	33	183
Car-coupling	J. C. Reed	333,253	Dec. 29	2897	758	33	1542
Car-coupling	A. S. Reeves	326,590	Sept. 22	1813	476	32	1373
Car-coupling	S. J. Rhoads	318,138	May 19	1622	433	31	838
Car-coupling	D. L. Richards	311,528	Feb. 3	95	28	30	367
Car-coupling	D. L. Richards	312,657	Feb. 24	1634	450	30	678
Car-coupling	E. A. Richards	321,532	July 7	176	47	32	35
Car-coupling	E. Richmond	318,140	May 19	1625	434	31	839
Car-coupling	F. D. Root	311,037	Jan. 20	1144	319	30	246
Car-coupling	J. A. Ross	310,726	Jan. 13	728	196	30	144
Car-coupling	J. A. Ross	320,702	June 23	2397	634	31	1508
Car-coupling	E. Rye	313,026	Feb. 24	2139	580	30	765
Car-coupling	W. E. Samuel	327,197	Sept. 29	2683	697	32	1534
Car-coupling	S. Schroyer	310,854	Jan. 13	884	239	30	173
Car-coupling	C. L. Schulze	322,979	July 28	2139	568	32	413
Car-coupling	F. J. Schupp	329,493	Nov. 3	93	25	33	523
Car-coupling	J. F. Scott	313,378	Mar. 3	476	125	30	865
Car-coupling	E. E. Sell	323,080	July 28	2277	603	32	437
Car-coupling	W. N. Sewell	311,535	Feb. 3	102	30	30	369
Car-coupling	R. S. Shaffer, J. K. Adams, and G. W. Hunter	325,873	Sept. 8	879	221	32	1185
Car-coupling	L. H. Shular	328,259	Oct. 13	970	253	33	184
Car-coupling	J. Skinner	326,795	Sept. 22	2134	555	32	1428
Car-coupling	H. H. Smith	318,665	May 26	2325	621	31	975
Car-coupling	T. Smith	317,932	May 5	412	103	31	599
Car-coupling	B. D. Sparling and P. S. Fitch	325,454	Sept. 1	322	78	32	1077
Car-coupling	C. and V. Spear	310,327	Jan. 6	299	63	30	44
Car-coupling	M. Spellman	330,166	Nov. 10	1006	263	33	704
Car-coupling	S. H. Springer	328,020	Oct. 20	1469	382	33	982
Car-coupling	J. M. Staley	313,548	Mar. 10	698	182	30	916
Car-coupling	F. H. Stanford	325,876	Sept. 8	882	229	32	1185
Car-coupling	D. J. Stevenson	321,918	July 7	697	182	32	187
Car-coupling	I. L. Stover	318,052	May 19	1515	406	31	617
Car-coupling	D. Sturgis	322,752	Aug. 4	461	136	32	613
Car-coupling	D. J. Summers	333,172	Dec. 29	2779	728	33	1520
Car-coupling	J. T. Sustaire	313,455	Mar. 3	553	150	30	865
Car-coupling	J. E. Swope	332,847	Dec. 22	2311	610	33	1431
Car-coupling	F. J. Taggart	333,357	Dec. 29	3085	792	33	1507
Car-coupling	D. R. Taylor and W. I. Ludlow	319,893	June 9	1214	300	31	1278
Car-coupling	W. S. Temple	320,934	June 30	2766	735	31	1544
Car-coupling	G. C. Thompson	331,218	Nov. 24	2391	647	33	960
Car-coupling	W. H. Thurmond	313,386	Mar. 3	486	127	30	867
Car-coupling	W. H. Thurmond. (Reissue)	10,622	July 7	724	190	32	138

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Car-coupling	W. H. Thurmond. (Reissue).....	10,023	July 7	725	190	32	132
Car-coupling	H. W. Tilton.....	314,375	Mar. 24	1675	445	30	1114
Car-coupling	I. R. Titus and H. C. Bossinger.....	317,889	May 12	1281	341	31	766
Car-coupling	H. C. Trask.....	321,773	July 7	497	131	32	93
Car-coupling	W. Turnbull.....	313,968	Mar. 17	1279	334	30	1031
Car-coupling	W. Turnbull.....	322,998	July 28	2160	574	32	416
Car-coupling	B. H. Tyson.....	337,124	Sept. 29	2586	674	32	1516
Car-coupling	L. Van Camp.....	323,756	Aug. 4	487	137	32	615
Car-coupling	A. W. Van Dorston.....	314,490	Mar. 24	1976	526	30	1169
Car-coupling	A. W. Van Dorston.....	317,694	May 12	1294	346	31	769
Car-coupling	A. W. Van Dorston.....	328,547	Oct. 20	1359	354	33	262
Car-coupling	E. M. Van Hoesen and N. H. Brown. (Reissue).....	10,567	Mar. 3	600	153	30	888
Car-coupling	F. Vaughan.....	314,403	Mar. 24	1844	491	30	1147
Car-coupling	J. H. Ward.....	323,242	July 28	2498	664	32	478
Car-coupling	D. Wertz.....	324,968	Aug. 25	2137	584	32	943
Car-coupling	J. H. Wesson.....	324,069	Aug. 25	2138	584	32	943
Car-coupling	F. A. Westbrook and W. S. Cook.....	320,314	June 16	1892	489	31	1401
Car-coupling	F. A. Westbrook and W. S. Cook.....	321,328	June 30	3300	853	31	1665
Car-coupling	F. A. Westbrook and W. S. Cook.....	324,740	Aug. 18	1816	502	32	877
Car-coupling	P. L. Wetmore.....	330,947	Nov. 24	2021	546	33	913
Car-coupling	R. S. Wheeler.....	312,310	Feb. 17	1169	320	30	581
Car-coupling	I. A. Whitman.....	322,512	July 21	1497	393	32	288
Car-coupling	J. Whitmore.....	328,794	Nov. 3	492	124	33	596
Car-coupling	M. L. Whitney.....	316,926	Apr. 28	2704	704	31	510
Car-coupling	J. H. Wilkin.....	332,316	Dec. 15	1570	412	33	1283
Car-coupling	F. R. Wilkins.....	313,209	Mar. 3	340	84	30	838
Car-coupling	J. G. Williams.....	326,188	Sept. 15	1295	335	32	1268
Car-coupling	R. P. Wilson.....	311,216	Jan. 27	1409	384	30	279
Car-coupling	W. Wilson.....	330,279	Nov. 10	1141	303	33	731
Car-coupling	H. Wine.....	318,844	May 26	2572	684	31	1018
Car-coupling	J. B. Winters.....	323,303	Sept. 1	99	28	32	1034
Car-coupling	J. J. Wolfe.....	311,628	Feb. 3	225	63	30	391
Car-coupling	C. S. Woodman.....	311,398	Feb. 3	435	118	30	430
Car-coupling	E. W. and S. C. Woolley.....	321,670	July 7	88	23	32	18
Car-coupling	J. C. Yelzer.....	316,913	Apr. 21	1707	448	31	323
Car-coupling	W. B. Zerr.....	319,341	June 9	775	206	31	1200
Car-coupling	C. H. Zimmerman.....	318,439	May 19	2020	544	31	912
Car-coupling. Automatic	G. De Beaulieu.....	319,000	June 2	321	85	31	1108
Car-coupling link	R. B. Ayres.....	321,473	July 7	91	24	32	18
Car-coupling pins. Machine for making	M. Collins.....	320,307	Nov. 10	1053	275	33	713
Car-coupling tool	E. A. Hamilton.....	323,772	Aug. 4	390	108	32	593
Car-cover	J. H. Gage.....	316,336	Apr. 28	2145	564	31	408
Car-cover	R. H. Wyman.....	312,786	Feb. 24	1808	497	30	708
Car-cover	R. H. Wyman.....	319,044	June 9	1332	351	31	1269
Car cover. Railway	R. H. Wyman.....	312,785	Feb. 24	1807	497	30	708
Car covers. Guard for freight	R. H. Wyman.....	312,787	Feb. 24	1810	497	30	708
Car-curtain	J. C. Jacobson.....	323,444	Oct. 13	929	241	33	177
Car-curtain. Open	O. Tufts.....	320,176	Dec. 29	2785	730	33	1521
Car-door	D. Sutherland.....	323,018	Aug. 25	2465	678	32	1003
Car-door change-gate	J. Stephenson.....	331,010	Nov. 24	2100	568	33	928
Car-door fastening	J. Kinzer.....	312,257	Feb. 17	1236	340	30	593
Car-door fastening. Freight	G. A. Germond.....	320,339	June 16	1732	459	31	1379
Car door. Freight	J. J. Largent.....	319,630	June 9	1027	273	31	1247
Car door. Grain	W. McGuire.....	331,015	Dec. 1	78	19	33	1013
Car door. Grain	S. R. Wacher.....	317,000	May 12	1304	349	31	771
Car door. Grain	C. P. Willson.....	319,071	June 2	530	144	31	1149
Car-door lock	J. Kinzer.....	312,258	Feb. 17	1237	340	30	593
Car-door retainer	H. McCaffrey.....	311,134	Jan. 20	1266	354	30	252
Car-door retainer	A. Roelofs.....	320,240	Oct. 27	2489	642	33	475
Car-door. Sliding	E. Y. Moore. (Reissue).....	10,004	June 2	622	168	31	1167
Car door. Stock or freight	H. C. Hicks.....	324,255	Aug. 11	1158	315	32	745
Car. Double-action hay	J. Drader.....	324,204	Dec. 22	2136	563	33	1397
Car-draft apparatus	J. W. Cloud.....	324,084	Aug. 11	915	253	32	700
Car draw-head. Tram	J. Stephenson.....	327,614	Oct. 6	149	35	33	27
Car driving-gear. Street	F. G. Freese.....	318,717	May 26	2390	637	31	987
Car-dump	A. Wolcott.....	327,506	Sept. 29	3073	800	32	1601
Car. Dumping	G. E. Blaine.....	315,892	Apr. 14	1272	331	31	237
Car. Dumping	D. M. Carey.....	315,123	Apr. 7	180	44	31	33
Car. Dumping	S. W. Cook and H. Summers.....	327,769	Oct. 6	345	89	33	61
Car. Dumping	C. Culverson.....	318,170	May 19	1663	446	31	846
Car. Dumping	J. M. Hartman.....	321,024	June 30	2821	750	31	1594
Car. Dumping	J. M. Hartman.....	323,417	Aug. 4	45	11	32	531
Car. Dumping	W. J. March.....	312,282	Feb. 17	1136	312	30	575
Car. Dumping	A. O'Hara.....	313,361	Mar. 3	457	117	30	861
Car. Dumping	R. Savage.....	332,007	Dec. 8	1124	294	33	1209
Car. Dumping	T. F. Seery.....	323,744	Aug. 4	470	133	32	611
Car. Dumping	D. S. Stimson.....	319,638	June 9	912	241	31	1225
Car. Dumping	J. H. R. Talley and C. P. Barnes.....	326,807	Sept. 22	2151	560	32	1431
Car. Dumping	D. H. Valentine.....	317,429	May 5	680	173	31	647
Car. Dumping	C. L. Van Wormer.....	311,047	Jan. 20	1158	316	30	228
Car. Dumping	M. Van Wormer.....	311,274	Jan. 27	1499	408	30	296
Car. Dumping	M. Van Wormer.....	316,507	Apr. 28	2112	556	31	401
Car dust-guard	R. J. Truesdall.....	316,583	Apr. 28	2204	580	31	418
Car. Electric	A. Reckenzaun.....	320,092	June 16	1537	407	31	1244
Car-floor	F. Burckhardt.....	313,986	Mar. 17	1302	340	30	1035

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Car. Fluid.....	J. R. Gathright.....	320,775	June 23	2483	657	31	1526
Car-followers. Machine for forming.....	H. Rhyne.....	320,502	June 23	2138	564	31	1469
Car for cable railways.....	C. Bullock.....	322,917	Oct. 27	1861	486	32	362
Car for cable railways. Grip.....	F. P. H. Loftis.....	323,817	Aug. 4	557	158	32	639
Car for cable ways.....	S. H. Terry.....	329,786	Nov. 3	484	122	33	597
Car. Freight.....	I. H. Congdon.....	315,600	Apr. 14	870	229	31	161
Car. Freight.....	J. M. Garverick.....	317,111	May 5	235	59	31	567
Car. Freight.....	A. Wolcott.....	320,701	Sept. 22	1974	518	32	1401
Car. Hand.....	D. H. Beach.....	317,437	May 5	697	176	31	649
Car. Hand.....	J. Milliron, Jr.....	312,572	Feb. 17	1529	417	30	648
Car hand-strap.....	J. McMannus.....	323,188	July 28	2431	643	32	466
Car-heater.....	W. C. Baker.....	331,367	Dec. 1	157	40	33	1026
Car-heater.....	H. E. Freese.....	325,796	Sept. 8	720	196	32	1165
Car-heater. Steam.....	E. D. Cody.....	329,017	Oct. 27	2023	525	33	220
Car heater. Street.....	F. S. Hunter.....	319,258	June 2	393	104	31	1122
Car. Hotel.....	J. J. Strong.....	313,454	Mar. 3	581	149	30	885
Car-journal lubricator.....	C. H. Kock.....	315,638	Apr. 14	923	242	31	172
Car-label holder. Freight.....	C. W. Cushman.....	318,602	May 26	2244	601	31	960
Car. Live-poultry.....	W. P. Jenkins and J. L. Streeter. (Reissue.).....	10,033	Aug. 4	670	188	32	649
Car lock and seal.....	J. Chapman.....	319,194	June 2	313	83	31	1106
Car motor. Street.....	W. C. Trussell.....	327,623	Oct. 6	165	41	33	30
Car motor. Tram.....	J. Danks and B. Barnes.....	320,634	June 23	2314	611	31	1492
Car-mover.....	C. V. Greenamyer.....	329,642	Nov. 3	292	74	33	560
Car-mover.....	S. Shackelford.....	330,744	Nov. 17	1755	473	33	856
Car-moving device.....	E. Barnes.....	310,492	Jan. 6	420	116	30	81
Car-pedestal.....	B. Briody and G. W. McHale.....	326,394	Sept. 15	1571	408	32	1320
Car-pedestal.....	J. Volk.....	313,461	Mar. 3	590	151	30	886
Car-pedestal. Railway.....	B. Briody and G. W. McHale.....	312,079	Feb. 10	837	228	30	512
Car-platform dust-guard.....	L. B. Wood.....	317,266	May 5	458	115	31	607
Car platform. Freight.....	A. C. Ferguson.....	330,216	Nov. 10	1063	272	33	715
Car-platform safety-gate.....	J. T. Loweth.....	321,373	June 30	3260	670	31	1676
Car pole. Street.....	W. H. Kelleher.....	328,121	Oct. 13	801	209	33	151
Car. Poultry.....	W. P. Jenkins and J. L. Streeter.....	330,899	Nov. 24	1956	530	33	201
Car. Railway.....	C. F. Crockett.....	317,314	May 5	525	133	31	619
Car. Railway.....	A. W. Driggs.....	330,825	Nov. 17	1855	500	33	874
Car. Railway.....	J. A. Enos.....	331,388	Dec. 1	114	47, 48	33	1031
Car. Railway.....	H. Loring and L. K. Jewett.....	327,093	Sept. 29	2544	663	32	1509
Car. Railway.....	J. Tesseymann and H. A. Billings.....	327,836	Oct. 6	439	112	33	76
Car. Railway.....	T. L. Wilson.....	311,553	Feb. 3	132	38	30	373
Car. Railway.....	R. H. Wyman. (Reissue).....	10,654	Oct. 20	1853	483	33	354
Car register. Street-railway.....	G. B. Thayer.....	310,921	Jan. 20	980	267	30	195
Car-replacer.....	G. M. Durden.....	327,072	Sept. 29	2505	654	32	1502
Car-replacer.....	R. Jones.....	310,520	Jan. 6	453	125	30	88
Car-replacer.....	J. E. Norwood.....	329,839	Nov. 10	700	179	33	643
Car-replacer.....	I. Snow.....	319,337	June 2	493	133	31	1142
Car-replacing jack.....	L. F. Longmore.....	330,842	Nov. 17	1878	508	33	879
Car-roof.....	H. Aldridge.....	310,971	Jan. 20	1056	287	30	208
Car-roof.....	F. Burckhardt.....	313,985	Mar. 17	1301	339	30	1035
Car-roof. Railway.....	C. A. Smith.....	325,634	Sept. 1	552	140	32	1120
Car safety attachment. Cable.....	H. J. Rohrbach.....	316,831	Apr. 28	2563	671	31	485
Car safety device.....	W. L. Robinson.....	312,167	Feb. 10	970	265	30	535
Car safety device. Railway.....	S. Pedersen and T. Sernedinger.....	320,490	June 16	1985	522	31	1424
Car sand-box. Street.....	J. Gilson and J. W. Houston.....	319,697	June 9	980	239	31	1238
Car-seat.....	H. B. Cobb.....	318,450	May 26	2034	549	31	923
Car-seat.....	M. N. Forney.....	324,225	Aug. 25	1946	534	32	907
Car-seat backs. Rest for the arms of.....	G. Buntin.....	316,736	Apr. 28	2435	634	31	460
Car-seat rest and fire-escape.....	E. H. Hazen.....	324,539	Aug. 25	1965	539	32	911
Car seat. Sleeping.....	A. L. Kean.....	317,142	May 5	284	72	31	575
Car-signal.....	F. P. Day.....	312,099	Feb. 10	864	236	30	517
Car signal-cord sheave. Tram.....	J. Stephenson.....	325,705	Sept. 8	656	165	32	1143
Car signal. Tram.....	T. L. Johnson.....	329,568	Nov. 3	198	52	33	542
Car. Sleeping.....	A. Christin.....	324,815	Aug. 25	1933	531	32	904
Car. Sleeping.....	J. F. Colby.....	313,576	Mar. 10	739	192	30	923
Car. Sleeping.....	E. W. Cutler.....	316,013	Apr. 21	1438	375	31	274
Car. Sleeping.....	W. W. Fessler.....	310,809	Jan. 13	829	225	30	162
Car. Sleeping.....	H. Guillaume.....	331,233	Nov. 24	2409	652	33	984
Car. Sleeping.....	M. W. Hazelton.....	319,711	June 9	1000	264	31	1241
Car. Sleeping.....	J. A. Schleicher.....	315,851	Apr. 14	1209	316	31	226
Car-spring.....	J. T. Herschell.....	314,245	Mar. 24	1038	430	30	1105
Car-spring.....	I. H. Randall.....	315,534	Apr. 14	1184	309	31	922
Car-spring.....	R. Vose.....	330,445	Nov. 17	1380	367	33	783
Car-spring.....	R. Vose.....	330,446	Nov. 17	1381	368	33	783
Car-spring.....	J. K. Woolley.....	321,776	July 7	499	132	32	93
Car spring-seat. Railway.....	R. F. Lehdorff.....	320,368	June 16	1942	512	31	1414
Car-springs. Apparatus for indicating the flexure of.....	F. W. Minck.....	324,949	Aug. 25	2110	577	32	939
Car-starter.....	J. S. Briggs.....	316,730	Apr. 28	2425	632	31	450
Car-starter.....	T. F. Bourne.....	323,629	Aug. 4	327	94	32	583
Car-starter.....	C. B. Broadwell.....	310,556	Jan. 13	510	140	30	104
Car-starter.....	D. W. Copeland.....	319,565	June 9	806	215	31	1206
Car-starter.....	F. Sr. and F. Dawson, Jr.....	314,519	Mar. 24	2006	535	30	1174
Car-starter.....	C. Dickenson.....	326,855	Sept. 22	2223	580	32	1444
Car-starter.....	C. F. Dodge.....	315,258	Apr. 7	396	96	31	70
Car-starter.....	J. Goodfellow.....	310,197	Jan. 6	50	14	30	19
Car-starter.....	C. A. Iversen.....	313,824	Mar. 10	1065	274	30	983
Car-starter.....	J. King.....	321,225	June 30	3075	816	31	1641

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Car-starter	A. Krizner and F. Tentschert	326,043	Sept. 8	1089	278	32	1223
Car-starter	J. A. Lane and J. M. Thorp	329,319	Oct. 27	9450	634	33	468
Car-starter	J. Lowbridge	317,394	May 5	696	{ 150 160 }	31	637
Car-starter	M. Potter	320,088	June 16	1539	406	31	1344
Car-starter	J. C. Price	323,962	Aug. 11	762	209	32	672
Car-starter	N. J. Roberts	314,209	Mar. 24	1712	455	30	1191
Car-starter	S. Rockafellow	319,029	June 2	117	32	31	1069
Car-starter	F. Rousseau	326,790	Sept. 22	2120	554	32	1427
Car-starter	R. W. Thompson	316,417	Apr. 21	1926	522	31	372
Car-starter	J. Van Zandt	321,405	June 30	3308	883	31	1084
Car-starter	W. P. Vickery	330,946	Nov. 24	2021	546	33	913
Car-starter	H. H. Watson	331,220	Nov. 24	2322	647	33	961
Car-starter	A. R. Witmer	311,627	Feb. 3	224	63	50	391
Car-starter and brake	S. Johnson	320,239	Nov. 3	563	143	33	610
Car-starter and brake	J. Kubler	328,493	Oct. 20	1223	333	33	249
Car-starter and brake	E. Werner	333,367	Dec. 29	3046	795	33	1568
Car-step	J. A. Doyle and T. L. Scurman	331,776	Dec. 8	704	201	33	1147
Car-step	G. C. Hadley	315,024	Apr. 7	50	11	31	11
Car-step	J. P. Race and E. E. Guernsey	322,749	July 21	1803	476	32	344
Car-step	T. Toncy	323,236	July 28	2490	662	32	477
Car-steps. Folding	J. H. Cruger	329,440	Nov. 3	19	6	33	508
Car. Stock	H. Arms	328,745	Oct. 20	1635	426	33	313
Car. Stock	H. Arms	328,746	Oct. 20	1635	426	33	313
Car. Stock	H. Arms	328,747	Oct. 20	1636	426	33	313
Car. Stock	G. Armstrong	323,378	Dec. 29	3058	797	33	1570
Car. Stock	J. A. Bryan and J. B. Fielding	328,916	Oct. 27	1860	466	33	361
Car. Stock	G. D. Burton	311,719	Feb. 3	334	92 93	30	412
Car. Stock	G. D. Burton	322,896	July 28	2014	{ 531 532 }	32	989
Car. Stock	G. D. Burton and E. F. Perkins	322,897	July 28	2016	532	32	369
Car. Stock	J. E. Cantrill	313,173	Mar. 3	187	45, 46	30	811
Car. Stock	J. H. Chamberlin	329,716	Nov. 3	393	100	33	580
Car. Stock	H. C. Hicks	324,256	Aug. 11	1160	{ 315 316 }	32	745
Car. Stock	H. C. Hicks	324,257	Aug. 11	1161	316	32	746
Car. Stock	R. E. Ismond	332,080	Dec. 8	1237	323	33	1228
Car. Stock	C. C. and C. W. James	327,880	Oct. 6	479	125	33	85
Car. Stock	J. J. Koenig and A. M. Lee	329,241	Nov. 3	568	144	33	610
Car. Stock	D. Lines and C. T. Long	326,755	Sept. 23	2076	{ 539 540 }	32	1418
Car. Stock	R. G. Pace	313,759	Mar. 10	992	253	30	968
Car. Stock	J. A. Parker	327,305	Sept. 29	2817	735	32	1558
Car. Stock	E. F. Perkins and G. D. Burton	310,463	Jan. 6	381	106	30	74
Car. Stock	J. E. Pierce	311,781	Feb. 3	415	113	30	426
Car. Stock	F. Sell	321,860	July 7	627	161	32	114
Car. Stock	J. H. Wickes	322,336	July 14	1239	325	32	236
Car. Stock	J. H. Wickes	324,624	Aug. 18	1668	460	32	848
Car-strap	E. Q. Bowman	330,461	Nov. 17	1397	372	33	786
Car. Street	G. M. Brill	315,898	Apr. 14	1280	{ 333 334 }	31	238
Car. Street	F. W. Brooks	325,908	Sept. 8	915	231	32	1192
Car. Street	M. A. Cutter	312,556	Feb. 17	1510	412	30	645
Car. Street	M. A. Cutter	333,450	Dec. 29	3151	824	33	1566
Car. Street	W. D. Mayfield	318,274	May 19	1790	480	31	871
Car. Street	C. J. Reynolds	333,158	Dec. 29	2761	725	33	1517
Car. Street-railway	T. B. Stewart	326,527	Sept. 15	1734	452	32	1351
Car tag-holder. Railway.	G. W. Haggett	320,335	June 16	1927	508	31	1412
Car-transfer apparatus	R. L. Davis	318,360	May 19	1918	{ 317 318 }	31	893
Car-ventilation	A. Bell	325,040	Aug. 25	2234	613	32	961
Car-ventilator	J. P. Doyle and C. W. Stanley	321,346	June 30	3223	859	31	1069
Car-ventilator	W. E. Eastman	326,411	Sept. 15	1588	{ 413 414 }	32	1323
Car-ventilator	A. S. Emerson	324,099	Aug. 11	935	258	32	704
Car-ventilator	W. D. Mann	327,289	Sept. 20	2794	{ 726 727 }	32	1553
Car-ventilator	A. Miller	325,003	Aug. 25	2100	{ 599 600 }	32	951
Car-ventilator	W. Y. Ober	332,739	Dec. 22	2180	575	33	1407
Car-ventilator	E. S. Perry	329,501	Nov. 3	229	50	33	549
Car-warmer	J. Q. C. Searle	311,533	Feb. 3	99	29	30	368
Car-warmer	J. Q. C. Searle	311,534	Feb. 3	100	30	30	368
Car-wheel	R. N. Allen	318,940	June 2	3	1	31	1049
Car-wheel	R. N. Allen	323,551	Aug. 4	224	66	32	563
Car-wheel	T. C. Elvin	312,263	Feb. 17	1097	303	30	567
Car-wheel	L. R. Faught	321,590	July 7	246	65	32	48
Car-wheel	L. R. Faught	327,150	Sept. 29	2621	{ 682 683 }	32	1521
Car-wheel	J. Ferguson	331,292	Dec. 1	52	12	33	1009
Car-wheel	P. Gendron	322,276	July 14	1163	305	32	221
Car-wheel	J. A. Hagan	332,119	Dec. 8	1301	337	33	1239
Car-wheel	J. B. Hansell	320,246	June 16	1739	462	31	1381
Car-wheel	R. W. Jess	326,433	Sept. 15	1620	{ 423 424 }	32	1328
Car-wheel	W. Joslin	311,837	Feb. 3	485	132	30	440
Car-wheel	W. Joslin	316,977	May 5	61	16	31	534
Car-wheel	R. Kells	324,705	Aug. 18	1776	490	32	868
Car-wheel	R. Kells	325,177	Aug. 25	2410	682	32	993
Car-wheel	G. P. King	311,434	Jan. 27	1778	467	30	336
Car-wheel	J. G. Lafontaine	310,688	Jan. 13	680	186	30	135
Car-wheel	C. Leavitt and C. G. Canfield	310,597	Jan. 13	565	156	30	114
Car-wheel	J. Munton	319,837	June 9	1180	311	31	1272

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Car-wheel.....	J. Munton.....	319,838	June 9	1181	312	31	1273
Car-wheel.....	D. H. Rice.....	330,423	Nov. 17	1347	359	33	777
Car-wheel.....	J. K. Sax.....	319,511	June 9	736	197 188	31	1193
Car-wheel.....	J. P. Stevenson.....	319,341	June 9	496	134	31	1143
Car-wheel.....	J. L. Tucker.....	320,986	June 30	2770	736	31	1585
Car-wheel.....	N. Washburn.....	326,256	Sept. 15	1394	363	32	1286
Car-wheel.....	N. Washburn.....	327,041	Sept. 29	9470	645	32	1496
Car wheel and axle.....	J. H. Black.....	322,575	July 21	1580	416	32	302
Car wheel and axle.....	W. Malam.....	329,180	Oct. 27	9247	582	33	430
Car-wheel and axle-box.....	S. A. Bemis.....	330,372	Nov. 17	1279	340	33	785
Car-wheel and spraying-bar. Spraying.....	A. A. Smith.....	312,028	Feb. 10	774	211	36	500
Car-wheel chill.....	G. J. McCurley.....	327,223	Sept. 29	2802	729	32	1555
Car-wheel guard. Railway.....	J. Jacobs.....	314,580	Mar. 31	2087	557	30	1217
Car-wheel lathe.....	H. J. Small and J. McNaughton.....	330,622	Nov. 17	1800	428	33	826
Car-wheel. Self-lubricating.....	P. B. Perkins.....	321,243	June 30	3097	623	31	1644
Car-wheel. Self-oiling.....	H. L. Kirchman.....	314,140	Mar. 17	1300	391	30	1072
Car-wheel. Self-oiling.....	E. T. Thayer.....	317,243	May 5	425	107	31	601
Car-wheels. Anti-friction bearing for.....	S. C. Mendenhall.....	321,516	July 7	154	40. 41	32	30
Car-wheels. Apparatus for removing and replacing.....	J. H. Vreeland.....	314,895	Mar. 31	2529	669 670	30	1297
Car-wheels. Filling the recesses in the tread of.....	S. L. Sinclair.....	315,080	Apr. 7	128	30	31	25
Car-wheels. Machine for making.....	G. F. Simonds.....	319,753	June 9	1054	279	31	1251
Car-wheels. Making.....	W. Pelz.....	322,635	July 21	1651	438	32	316
Car-wheels. Manufacture of.....	C. B. Beach.....	329,617	Nov. 3	263	68	33	585
Car-wheels. Manufacture of.....	E. B. Meatyard.....	310,701	Jan. 13	694	190	30	138
Car-window.....	J. M. Fennerty.....	323,408	Aug. 4	34	9	32	529
Car-window guard. Portable.....	E. Whitney.....	326,003	Sept. 8	1039	264	32	1214
Car-window. Railway.....	J. R. Whitney.....	321,266	June 30	3126	832	31	1650
Car-window sash.....	J. Stephenson.....	323,967	Aug. 11	757	211	32	673
Car-window shade.....	G. B. Massey.....	311,906	Feb. 10	601	165	30	468
Cars and cooling their axle-boxes. System of venti- lating, cooling, heating, and lighting railway.....	G. Van Duzer.....	319,358	June 2	514	140 141	31	1146
Cars and vehicles. Motor for propelling.....	L. C. Pressley.....	330,151	Nov. 10	988	256 257	33	700
Cars. Carding railway freight.....	C. W. Cushman.....	316,527	Apr. 28	2134	562	31	406
Cars. Closet for railway.....	J. Schaefer.....	320,177	June 16	1647	438	31	1263
Cars. Device for loading and unloading.....	H. M. Barnhart and E. Huber.....	325,309	Sept. 1	107	30	32	1035
Cars. Device for unloading gravel.....	E. Huber and H. M. Barnhart.....	316,783	Apr. 28	2494	651	31	471
Cars. Escape-hatch for railway.....	J. McIntyre and H. Loring.....	330,039	Nov. 10	853	214	33	668
Cars. Fastening device for the doors of freight.....	H. E. Hoke.....	311,761	Feb. 3	392	107	30	422
Cars. Grain-door for freight.....	L. J. Mason and G. N. Walker, Jr.....	310,600	Jan. 13	567	157	30	115
Cars. Grip attachment for cable-motor.....	T. Wright.....	329,990	Nov. 10	768	196 197	33	655
Cars. Grip attachment for railway.....	J. J. Endres.....	312,711	Feb. 24	1710	470	30	690
Cars. Head-rest for railway.....	C. Munagle.....	322,843	July 21	1932	511	32	367
Cars. Hot-water apparatus for railway.....	W. D. Mann.....	311,021	Jan. 20	1121	306 307	30	221
Cars. Lamp-box for.....	J. J. Walton.....	325,135	Aug. 25	2353	648	32	963
Cars. Lighting railway.....	H. E. Freese.....	325,795	Sept. 8	779	175	32	1165
Cars. Loading and unloading.....	H. M. Barnhart and E. Huber.....	325,308	Sept. 1	106	30	32	1035
Cars. Movable dressing-closet for sleeping.....	A. J. Chandler.....	331,034	Nov. 24	2125	573	33	933
Cars on curves. Mechanism for moving street.....	N. A. Fisher.....	315,491	Apr. 14	712	188	31	133
Cars. Pole-coupler for horse.....	J. N. Akarman.....	311,168	Jan. 27	1332	367	30	286
Cars. Propelling railway.....	G. Pardy.....	326,144	Sept. 15	1226	313 314	32	1255
Cars. Propelling railway.....	G. Pardy.....	326,145	Sept. 15	1229	314 315	32	1256
Cars. Snow-cutting and track-sweeping attachment for railway.....	J. Ring.....	322,323	July 14	1222	321	32	222
Cars. Steam-heating apparatus for railway.....	J. Emerson.....	314,006	Mar. 17	1323	345	30	1040
Cars. Steam-valve connection for railway.....	J. Emerson.....	314,007	Mar. 17	1325	345 346	30	1040
Cars. Switching-wheel for street.....	H. C. Lowrie.....	327,095	Sept. 29	2548	664	32	1509
Cars. System for heating freight.....	A. B. Vandemark.....	326,809	Sept. 22	2157	561 562	32	1432
Cars. Unloading gravel.....	E. Huber and H. M. Barnhart.....	315,410	Apr. 7	586	151	31	105
Cars upon railways. Propelling.....	E. G. Smith.....	319,335	June 2	489	132	31	1141
Cars. Window for street-railway.....	R. L. Omensetter.....	323,360	July 28	2674	712 713	32	509
Caramel-cutter.....	C. Gerber.....	318,101	May 19	1572	421 422	31	829
Carbon-baking box.....	W. J. Possons.....	331,440	Dec. 1	264	71	33	1045
Carbon-battery element.....	I. L. Roberts.....	311,252	Feb. 3	508	138	30	444
Carbon bisulphide. Apparatus for the manufacture of.....	E. R. Taylor.....	321,661	July 7	333	89	32	63
Carbon bisulphide. Apparatus for the manufacture of.....	E. R. Taylor.....	321,662	July 7	335	89	32	64
Carbon bisulphide. Apparatus for the manufacture of.....	E. R. Taylor.....	321,771	July 7	494	131	32	92
Carbon-cutting machine.....	M. Eagan.....	323,125	July 28	2336	620	32	449
Carbon dioxide. Apparatus for generating.....	J. McEwen.....	317,823	May 12	1200	318	31	751
Carbon for incandescents. Obtaining.....	S. Nicholson and H. A. Bowen.....	329,670	Nov. 3	326	84	33	566
Carbon-holder.....	H. H. Levett.....	327,282	Sept. 29	2787	725	32	1552
Carbon. Making plates or masses of.....	S. J. Coxeter and H. Nehmer.....	325,822	Sept. 8	821	32	32	1173
Carbons. Apparatus for making curved.....	C. F. Heinrichs.....	317,772	May 12	1129	296 561 562 563	31	758
Carbons. Machine for dressing.....	W. J. Possons.....	320,497	June 23	2130	561 562 563	31	1456
Carbonaceous antiseptic dressing.....	A. F. Westerlund.....	322,664	July 21	1688	.....	32	323
Carbonizing bones, &c. Apparatus for.....	A. Zwillinger.....	320,110	June 16	1564	413	31	1348
Carbureting air and gas. Apparatus for.....	J. S. Butler.....	312,186	Feb. 10	996	271 272	30	540

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Carbureting and odorizing natural gas. Apparatus for	S. J. Hayes	316,033	Apr. 21	1463	382	31	278
Carbureting gas. Apparatus for	W. F. H. O'Keefe	327,302	Sept. 29	2814	734	32	1557
Carburetor.	C. F. Andrus	327,981	Oct. 13	620	163	33	119
Carburetor.	F. Copeland	330,460	June 23	2026	550	31	1450
Carburetor.	E. J. Frost	312,836	Feb. 24	1879	515	30	720
Carburetor.	L. F. McNett	320,664	Nov. 3	319	82	33	565
Carburetor.	W. F. Singer	324,177	Aug. 11	1044	285	32	724
Carburetor.	E. J. Vaughan	312,774	Feb. 24	1795	494	30	706
Carburetor. Air or gas.	J. M. Palmer	312,289	Feb. 17	1147	313	30	576
Carburetor. Gas.	W. G. Little	322,116	July 14	971	253	32	185
Carburetor. Gas.	H. Symons	317,686	May 12	1015	204	31	715
Carcasses. Horse for suspending.	J. Hursh	322,181	July 14	1056	273	32	200
Carcasses. Traveler for carrying.	R. Barrett	331,758	Dec. 8	775	196	33	1144
Card and card-supporter.	G. S. H. Floto	318,611	May 26	2226	602	31	963
Card-beveling machine.	C. A. Wright	313,639	Mar. 10	815	213	30	922
Card-beveling machine.	C. A. Wright	323,423	Aug. 4	126	36	32	545
Card-board-cutting machine.	S. J. Murray	310,534	Jan. 6	478	133	30	92
Card-board. Machine for shearing.	W. Ames	324,633	Aug. 18	1685	464	32	851
Card-clothing. Device for stretching.	G. E. Kimball	330,795	June 23	2505	684	31	1530
Card. Fancy.	W. Wirths	321,668	July 7	343	91	32	65
Card-grinding machine.	N. Hicks and G. A. Metcalf	325,744	Sept. 8	717	179	32	1154
Card-grinding machine. Wire.	W. Decker	321,068	June 30	2906	773	31	1610
Card-holder.	J. M. Hannas and F. B. Lee	318,372	May 19	1932	521	31	896
Card-holder.	S. N. Rosenbaum	323,598	Aug. 4	285	82	32	574
Card. Ornamental embossed.	G. A. Raisbeck	324,164	Aug. 11	1027	290	32	721
Card or print hanger.	A. H. Stetson	312,035	Feb. 10	780	213	30	501
Card. Playing.	E. Seedhouse	328,678	Sept. 22	1944	511	32	1395
Card. Show.	D. M. McLellan	330,250	Nov. 10	1103	292	33	724
Card-table.	A. Rodgers	327,722	Oct. 6	294	75	33	51
Cards, &c. Holder for.	F. L. Cutter	316,948	May 5	22	6	31	527
Cards. Manufacturing show.	J. Thoubboron	326,174	Sept. 15	1273	327	32	1264
Carding-engine.	J. A. Bradshaw	329,356	Oct. 27	2514	648	33	478
Carding-engine feeding mechanism.	W. C. Bramwell	311,948	Feb. 10	656	180	30	478
Carding-engines. Apparatus for truing the flexible bands of.	J. M. Hetherington	322,288	July 14	1178	309	32	224
Carding-engines. Automatic stop-motion for feeding mechanisms of.	E. G. Woods	329,425	Oct. 27	2624	477	33	498
Carding-engines. Curved guide for the traveling flats of.	G. and E. Ashworth	318,226	May 19	1737	465	31	860
Carding-engines. Drawing and unburring device for.	P. L. Klein	318,121	May 19	1599	427	31	834
Carding-engines. Dust-collecting attachment for.	M. Rousselle	328,069	Oct. 13	735	192	33	139
Carding-engines. Mechanism for reciprocating the condensing-cylinders of.	A. R. Fox	316,769	Apr. 28	2479	647	31	469
Carding-machine.	J. Abbott	316,215	Apr. 21	1709	448	31	323
Carding-machine.	G. and E. Ashworth	321,331	June 30	3203	854	31	1665
Carding-machine.	A. T. Atherton	311,404	Jan. 27	1677	457	30	329
Carding-machine.	P. T. Begley	323,021	July 28	2193	581	32	422
Carding-machine condenser.	W. Gill	320,778	June 23	2487	658	31	1526
Carding-machine. Condenser for wool.	I. Newell	315,054	Apr. 7	94	23	31	19
Carding-machine-feeding device.	E. Gessner	312,456	Feb. 17	1367	377	30	619
Carding machine feeding mechanism. Wool.	F. G. Babcock	320,205	June 16	1681	447	31	1370
Carding-machine for the manufacture of mottled rovings.	J. Dyson and C. W. Cookson	310,803	Jan. 13	820	222	30	161
Carding-machines. Fleece-dividing attachment for.	J. S. Bolette	312,424	Feb. 17	1319	364	30	610
Carding-machines. Self-stripping mechanism for.	J. T. Meats	318,107	June 2	215	56	31	1087
Carding-machines. Stripping mechanism for.	J. C. Potter	325,566	Sept. 1	467	117	32	1105
Carpet.	J. S. and S. Smith	315,353	Apr. 7	504	129	31	92
Carpet-binding.	R. S. Gould	320,130	June 16	1593	421	31	1353
Carpet-cleaner.	W. H. La Fountain	318,993	June 2	81	21	31	1063
Carpet-cleaner.	Z. N. De Ledochowski	322,199	Oct. 13	898	233	33	170
Carpet-cleaning machine.	J. M. Gessler and J. McAfee	330,107	Nov. 10	928	241	33	689
Carpet-cleaning machine.	S. T. Jull	330,406	Nov. 17	1328	333	33	774
Carpet-cleaning machine.	J. B. and L. M. Peters	310,307	Jan. 6	195	53	30	37
Carpet covering. Stair.	T. J. Dennis	330,963	Nov. 24	2046	553	33	918
Carpet-fastener.	G. M. Condit, Jr.	317,304	May 5	509	129	31	616
Carpet-fastener.	C. E. De Puy	319,204	June 2	324	86	31	1108
Carpet-fastener.	R. F. Eshelman	323,005	July 14	939	243	32	170
Carpet-fastener.	R. S. Gould	323,575	Aug. 4	250	73	32	568
Carpet-fastener.	F. C. Hellmuth	314,671	Mar. 31	2805	585	30	1237
Carpet-fastener.	W. H. McFaddin and J. P. Lucas	317,824	May 12	1201	318	31	751
Carpet-fastener.	G. C. Myers	310,217	Jan. 6	73	19	30	16
Carpet-fastener.	W. L. Farnellee	316,169	Apr. 21	1651	432	31	313
Carpet-fastener.	J. Pearsall	314,053	Mar. 17	1380	360	30	1051
Carpet-fastener.	M. F. Strathy	312,402	Feb. 17	1293	357	30	604
Carpet-lining.	J. H. Beale	320,615	June 23	2290	604	31	1488
Carpet-lining.	W. H. Howes and J. Jack	315,503	Apr. 14	727	192	31	136
Carpet-lining.	R. H. Thompson	311,390	Jan. 27	1658	30	325	
Carpet-lining.	W. E. Turner	315,078	Apr. 14	971	254	31	182
Carpet-rag looper.	H. A. Morrow	314,704	Mar. 31	2243	597	30	1245
Carpet-stretcher.	C. L. Camp	329,136	Oct. 27	2191	569	33	419
Carpet-stretcher.	W. H. Carter	317,296	May 5	500	126	31	614
Carpet-stretcher.	A. H. Coble	328,653	Oct. 20	1518	394	33	280
Carpet-stretcher.	C. Grover	324,766	Aug. 18	1856	511	32	884
Carpet-stretcher.	J. M. Hurst	327,688	Oct. 6	253	63	33	44
Carpet-stretcher.	J. S. Ingham	327,171	Sept. 29	2648	688	32	1522

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'e	Vol.	Page.
Carpet-stretcher	L. Krieg	325,345	Sept. 1	152	42	32	1043
Carpet-stretcher	J. Mead	327,809	Oct. 6	399	104	33	70
Carpet-stretcher	R. Moffitt	328,506	Oct. 20	1303	339	33	254
Carpet-stretcher	G. M. Robison	328,343	Oct. 13	1079	281	33	205
Carpet-stretcher	O. L. Sprague	320,063	Sept. 8	1122	286	32	1299
Carpet-stretcher and tack-driver combined	C. F. Crockett	322,799	July 21	1861	495	32	355
Carpet stretcher and tack	G. M. Brandon	327,131	Sept. 29	2594	676	32	1517
Carpet stretcher and tack	E. Schmidt and J. R. Kunzelman	332,949	Dec. 22	2457	650	33	1459
Carpet-sweeper	M. R. Bissell	329,257	Oct. 27	2364	611	33	452
Carpet-sweeper	E. B. Clarke	325,732	Sept. 8	696	174	32	1150
Carpet-sweeper	W. J. Drew	320,374	Oct. 27	2542	655	33	483
Carpet-sweeper	G. W. Kelley	330,590	Nov. 17	1554	416	33	817
Carpet-sweeper	E. T. Prindle	322,610	Oct. 20	1449	377	33	279
Carpet-sweepers. Show stand and rack for display-	C. B. Judd	320,362	June 16	1936	510	31	1413
ing							
Carpets, &c. Composition of matter for cleaning	J. J. Hymer	310,829	Jan. 13	854		30	162
Carpets, &c. Fabric for	J. W. Priestley and A. Kunkler	312,220	Feb. 10	1040	285	30	548
Carpets. Manufacturing filling for rag	E. H. Eisenhart	325,242	Sept. 1	13	5	32	1017
Carpets, plush, &c. Cleaning compound for	T. W. Ford	320,772	June 23	2480		31	1526
Carriage	S. M. Chester	326,846	Sept. 22	2203	575	32	1441
Carriage	W. E. Roberts	321,386	June 30	3275	875	31	1679
Carriage and cradle. Combined	H. H. Hemelright and G. W. Stone	321,219	June 30	3069	814	31	1640
Carriage and cradle. Combined baby	A. Abel	323,189	Dec. 29	2802	733	33	1524
Carriage and cradle. Convertible	G. C. Bond and J. Sadler	323,390	Aug. 4	10	3	32	525
Carriage and wagon jack	P. L. Kosciolowski	318,932	June 2	80	21	31	1063
Carriage and wagon jack	H. Midwood	327,096	Sept. 29	2550	664	32	1509
Carriage. Baby	J. F. Colby	326,954	Sept. 29	2362	617	32	1476
Carriage. Baby	H. M. Ribble and J. W. Sammis	317,578	May 12	875	224	31	690
Carriage-block. Street	D. H. Blascow	321,417	July 7	5	2	32	3
Carriage-body	J. A. Henley	313,591	Mar. 10	756	199	30	927
Carriage-bolts. Die for forming	O. Morrill	324,333	Aug. 11	1989	344	32	767
Carriage-bolts. Making	C. W. Root	327,454	Sept. 29	3012	726	32	1590
Carriage-bow slot	F. A. Smith	324,180	Aug. 11	1048	296	32	725
Carriage-bow spring attachment	J. W. and J. W. Sherwood	328,526	Oct. 20	1329	344	33	258
Carriage brake. Child's	E. L. Booth	321,946	July 14	741	194	32	143
Carriage. Child's	G. W. and A. A. Hodges	328,721	July 21	1765	466	32	337
Carriage. Child's	C. F. Bostwick and H. N. Thayer	328,564	Oct. 20	1385	361	33	267
Carriage. Child's	J. A. Crandall	323,401	Aug. 4	22	6	32	527
Carriage. Child's	I. N. Forrester	330,308	Nov. 10	1162	316	33	740
Carriage. Child's	E. A. and E. W. Gerbracht	314,327	Mar. 24	1748	466	30	1127
Carriage. Child's	E. W. and E. A. Gerbracht	314,328	Mar. 24	1749	466	30	1127
Carriage. Child's	F. H. Jury	319,416	June 2	586	159	31	1160
Carriage-coupling	J. C. Barney	314,987	Apr. 7	1	1	31	3
Carriage-curtain button	J. G. English	323,131	July 28	2344	622	32	451
Carriage-dash frames. Die for	F. T. Smith	312,029	Feb. 10	775	211	30	500
Carriage-door	P. Weimar	325,580	Sept. 1	484	121	32	1108
Carriage-doors. Device for operating	C. Thomas	328,731	Oct. 20	1619	422	33	310
Carriage. Extension baby	A. McLean	329,579	Nov. 3	214	56	33	845
Carriage-fender	L. H. Wooden	322,404	July 14	1336	347	32	253
Carriage. Folding	A. C. Walsh and J. Abramowsky	324,617	Aug. 18	1652	456	32	846
Carriage. Folding baby	M. Luxemburg	323,050	July 28	2241	592	32	430
Carriage. Folding baby	C. Seel	323,757	Dec. 22	2202	580	33	1411
Carriage-gear	J. B. Armstrong	319,378	June 2	539	147	31	1151
Carriage handle. Child's	W. S. Grove	319,992	June 9	1274	335	31	1229
Carriage-jack	J. R. Enos	326,024	Sept. 8	1067	272	32	1219
Carriage-jack	J. Hunt	322,180	July 14	1055	273	32	200
Carriage-jack	J. McFarland	310,453	Jan. 6	371	103	30	72
Carriage-jack	D. True	323,237	July 28	2490	682	32	477
Carriage. Jump-seat	J. T. Clarkson	324,232	Aug. 11	1131	307	32	746
Carriage. Jump-seat	C. N. Dennett	324,306	Aug. 11	1230	335	32	759
Carriage-knob. Double-clinching	M. A. Corliss	322,787	Dec. 22	2227	590	33	1418
Carriage prop-block	H. Haessler	327,978	Oct. 6	614	160	33	111
Carriage-runner attachment	D. E. Roche	326,456	Sept. 15	1644	430	32	1333
Carriage running-gear	C. J. Pullen	320,000	June 16	1413	372	31	1321
Carriage-seat	C. Morgan	321,131	June 30	2959	784	31	1618
Carriage-seat	J. Pariseau, Jr.	322,555	July 21	1546	408	32	297
Carriage-seat iron	E. S. Hawkins	313,331	Mar. 3	419	105	30	853
Carriage-shackle blanks. Die for forging	P. Gillick	325,073	Aug. 25	2275	625	32	969
Carriage-shifting-rail	H. Mankel, Jr.	319,830	June 9	1174	310	31	1271
Carriage-spring	W. K. Fralay	311,069	Jan. 20	1192	327	30	225
Carriage-spring	S. Gilbert	320,926	June 30	2687	713	31	1570
Carriage-spring	M. Hanghey	321,496	July 7	116	31	32	23
Carriage. Spring	C. C. Hayes	321,106	June 30	2932	777	31	1613
Carriage-spring	J. R. Johnson and C. K. Wright	324,703	Aug. 18	1774	490	32	868
Carriage-spring	A. R. Schmidt	323,535	Aug. 4	199	58	32	560
Carriage. Spring-propelled	A. W., and E. Schwickert	322,071	July 14	909	235	32	174
Carriage-standard	C. C. Egerton	312,618	Feb. 24	1586	434	30	668
Carriage standard. Child's	G. A. Ellis and E. L. Taft	319,569	June 9	811	216	31	1206
Carriage-step	F. A. Sawyer	314,151	Mar. 17	1519	396	30	1074
Carriage-top	C. C. Lawrence	316,983	May 5	68	18	31	535
Carriage-top	J. Pariseau	319,996	June 16	1410	371	31	1330
Carriage-top	E. E. Witham	314,903	Mar. 31	2541	679	30	1999
Carriage-top-prop block	G. L. Artz	313,570	Mar. 10	726	190	30	922
Carriage-top support	J. A. Crandall	320,023	Oct. 27	2033	527	33	282
Carriage-top support	F. Ege	311,731	Feb. 2	360	97	30	415
Carriage-top support	I. L. Umstead	314,631	Mar. 31	2156	573	30	1228
Carriage-tops. Back-stay for	H. Higgins	332,800	Dec. 22	2253	584	33	1421
Carriage-wheel	F. Oram	313,364	Mar. 3	460	118	30	822
Carriage-wheel fender	C. B. Haynes	325,941	Oct. 27	1900	499	33	306
Carriage-wheel fender	J. M. Todd	332,022	Dec. 8	1142	229	33	1212

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Carriage-wheel lock	R. P. Cowles	312,191	Feb. 10	1003	273	30	541
Carriage-window	F. and C. Forder	323,855	Aug. 4	620	174	32	640
Carriages. Canopy-holder for children's	A. G. Snell	312,393	Feb. 17	1284	355	30	603
Carriages. Curtain-light frame for	J. H. Hoops	326,036	Sept. 8	1083	276	32	1222
Carriages. Parasol for children's	G. A. Ellis	315,605	Apr. 14	876	250	31	163
Carrier.							
See Binder-carrier.	Fence-wire carrier.						
Cash-carrier.	Hay-carrier.						
Cash and message carrier.	Parcel-carrier.						
Cash and package carrier.	Sheaf-carrier.						
Cash and parcel carrier.	Squib-carrier.						
Clay and brick carrier.	Straw-carrier.						
Egg-carrier.	Tobacco-carrier.						
Carrier apparatus	Trace-carrier.						
Carrier apparatus	Water-carrier.						
Carrier apparatus	Wire-carrier.						
Carrier apparatus	J. F. Downing	328,660	Oct. 20	1528	397	23	292
Carrier apparatus	H. Smith	332,950	Dec. 22	2467	653	33	1461
Carrier apparatus	H. Smith	332,960	Dec. 22	2470	654	33	1462
Carrier apparatus	H. Smith	332,961	Dec. 22	2472	655	33	1462
Carrying device for melons, &c. Hand	J. Old	310,607	Jan. 13	576	159	30	116
Cart. Automatic-loading	G. E. Burt	320,016	Sept. 8	1055	269	32	1217
Cart. Coal	T. Finnerty	330,217	Nov. 10	1064	278	33	716
Cart. Dirt	J. N. Bodino	329,702	Nov. 3	370	94	33	575
Cart. Dirt	J. N. Bodino and O. Smith	329,703	Nov. 3	373	95	33	576
Cart. Dumping	M. Bowes	312,078	Feb. 10	835	227	30	512
Cart. Dumping	T. Hill	328,219	Oct. 13	923	240	33	176
Cart. Dumping	S. Sturgis	328,281	Oct. 27	1969	511	33	380
Cart. Road	I. Barber	316,934	May 5	7	2	31	524
Cart. Road	E. Emmert	312,485	Mar. 10	621	162	30	901
Cart. Road	A. P. Ferguson	326,414	Sept. 15	1565	415	32	1324
Cart. Road	A. C. Fish	321,806	July 7	541	142	32	101
Cart. Road	E. E. Kregel	316,902	Apr. 28	2673	696	31	605
Cart. Road	F. A. Rehkopf and C. A. Rogers	327,010	Sept. 29	2438	637	32	1491
Cart. Self-loading	J. H. Barringer	310,876	June 9	1235	326	31	1281
Cart. Self-loading	B. J. Morris	317,467	May 5	731	185	31	855
Cart. Conveyer for coal	T. A. Naylor	314,869	Mar. 31	2491	660	30	1291
Cartridge	H. E. Clark	310,650	Jan. 13	636	173	30	125
Cartridge	W. Lorenz	321,511	Dec. 1	361	97	33	1063
Cartridge	A. S. Lyman	321,042	June 30	2840	750	31	1588
Cartridge	A. S. Lyman	321,374	June 30	3261	871	31	1676
Cartridge	W. Sublett	317,041	May 5	142	30	31	548
Cartridge	W. P. Beach	315,028	Apr. 14	594	261	31	187
Cartridge-crimping machine	E. Parker	310,306	Jan. 6	193	53	30	37
Cartridge. Electric	S. Russell	310,628	June 9	897	237	31	1222
Cartridge. Electric	S. Russell	310,629	June 9	898	238	31	1222
Cartridge. Extensible safety	F. P. Rease	321,012	Dec. 8	989	256	33	1183
Cartridge for compressed air	W. T. Chamberlain	310,648	Jan. 13	624	172	30	125
Cartridge for electric fire-arms	E. A. Monfort	317,409	May 5	648	176	31	641
Cartridge for ordnance	W. Hope and R. S. Ripley	314,127	Mar. 17	1486	358	30	1270
Cartridge-heads. Machine for trimming	A. L. Howard	311,324	Jan. 27	1561	426	30	307
Cartridge implement	W. A. Davis	317,318	May 5	531	135	31	621
Cartridge-loader	C. D. McKenney and T. W. Brown	327,125	Sept. 29	2669	674	32	1530
Cartridge-loader	C. A. Thompson	326,693	Sept. 22	1263	510	32	1399
Cartridge loading and reloading machine	M. F. B. Rice	321,139	Nov. 24	2203	624	33	955
Cartridge loading board	H. W. Howe	310,235	June 2	329	103	31	1121
Cartridge-loading implement	H. Baxter	328,750	Oct. 20	1139	427	33	313
Cartridge-loading implement	C. F. Loudon	310,295	Jan. 6	176	49	30	34
Cartridge-loading machine	W. Hill	332,904	Dec. 22	2398	631	33	1447
Cartridge-loading machine	O. Konigelow	321,982	July 14	784	204	32	150
Cartridge-loading machine	C. Strand and J. Gilburg	321,257	June 30	3113	828	31	1647
Cartridge-loading machine	A. W. Wheaton	332,767	Dec. 22	2213	544	33	1413
Cartridge-pack	J. C. Kelton	331,891	Dec. 8	960	248	33	1178
Cartridge packer and carrier	G. S. Wilson	325,372	Sept. 1	197	50	32	1052
Cartridge. Pneumatic	W. T. Chamberlain	312,706	Feb. 24	1701	468	30	669
Cartridge-pouch	C. McClure	327,700	Oct. 6	265	67	33	47
Cartridge-reloading implement	D. Brown	329,135	Oct. 27	2190	568	33	419
Cartridge-shell	F. C. Knight and H. Docker	322,730	July 21	1776	469	32	339
Cartridge-shell craser	H. W. Howe	310,256	June 2	390	104	31	1122
Cartridge-shell crimper	H. T. Hazard	332,712	Dec. 22	2145	567	33	1400
Cartridge-shell extractor	C. M. Burton	314,563	Mar. 31	2067	552	30	1213
Cartridge-shell extractor for fire-arms	F. Rushton	323,368	July 28	2688	715	32	511
Cartridge-shell holder	W. H. Fisher	325,666	Sept. 8	590	152	32	1133
Cartridge-shell holder	J. Raabe and W. H. Fisher	330,513	Nov. 17	1464	392	33	799
Cartridge-shell holder	S. S. Stahl	318,215	May 19	1721	460	31	857
Cartridge-shell loader	J. T. Baird	317,484	May 12	759	193	31	669
Cartridge-shell-trimming machine	W. Mason	323,180	July 28	2413	640	32	463
Cartridge-shells. Device for feeding	W. Mason	317,396	May 5	629	160	31	637
Cartridge-shells. Holder for supporting	W. H. Fisher	328,018	Oct. 13	666	175	33	128
Cartridge-shells. Implement for capping and uncapping	G. W. Hadley	310,583	Jan. 13	547	150	30	111
Cartridge-shells. Machine for finishing metallic	G. P. Salisbury	319,019	Feb. 10	763	296	30	498
Cartridge-shells. Machine for making	J. H. Ring	311,035	Jan. 20	1140	311	30	225
Cartridge-shells. Machine for making metallic	D. J. Ring	311,034	Jan. 20	1139	311	30	225

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cartridge-shells. Machine for polishing.....	W. Mason.....	327,290	Sept. 29	2796	{ 727 728 729	32	1554
Cartridge-shells. Making metallic.....	A. Dickerman.....	313,187	Mar. 3	225	{ 55, 56 452 453	30	816
Cartridges. Charging.....	F. L. Chamberlin.....	320,219	June 16	1704	{ 504 505	31	1374
Cartridges. Implement for packing.....	P. Butler.....	312,809	Feb. 24	1838	{ 504 505	30	713
Cartridges. Making lubricating.....	W. J. Faul.....	330,102	Nov. 10	922	{ 239 186	33	187
Cartridges. Mold for making compressed powder-charges for.....	E. Rubin.....	331,737	Dec. 1	741	{ 239 186	33	1129
Carving-fork.....	A. F. Bannister.....	324,071	Aug. 11	899	{ 248 2411	32	697
Carving-fork.....	W. B. Hatfield.....	318,732	May 26	2411	{ 643 205	31	892
Carving-fork guard.....	G. Knauth.....	319,098	June 2	205	{ 34 324	31	1065
Carving-fork guard.....	A. H. North.....	317,842	May 12	1222	{ 324 76	31	755
Carving-machine.....	F. Holland.....	329,647	Nov. 3	299	{ 76	33	561
Case:							
See Book-case. Glass case.							
Bottle-packing case. Index or directory case.							
Burial-case. Lock-case.							
Cigar-case. Music-case.							
Cigar and cigarette case. Packing-case.							
Cigarette-case. Pencil-case.							
Clock-case. Pencil and crayon case.							
Coffin-case. Seed-case.							
Dental-bracket case. Sewing-machine thread-case.							
Display-case. Shaving-case.							
Drafting-case. Shipping-case.							
Drawer-case. Show-case.							
Dressing-case. Spectacle-case.							
Exhibiting-case. Thermometer-case.							
File-case. Ticket-case.							
Fishing-tackle case. Toilet-case.							
Fur-case. Watch-case.							
Case for cards, samples, &c.....	T. F. Watson.....	328,161	Oct. 13	851	{ 221 306	33	161
Case for copy-books and copies.....	D. A. Radley.....	320,444	June 16	2056	{ 539 2672	31	1436
Cash and message carrier.....	F. A. Byram.....	320,846	June 23	2672	{ 620 590	31	1543
Cash and package carrier.....	W. P. Bigelow.....	330,869	Nov. 24	1917	{ 590 550	33	894
Cash and parcel carrier.....	G. A. Badger and W. F. Lakin.....	314,558	Mar. 31	2060	{ 550 494	30	1219
Cash and parcel carrier.....	D. E. Kempster.....	332,539	Dec. 15	1869	{ 494 307	33	1347
Cash and parcel carrier.....	W. S. Lamson and E. L. Giles.....	326,128	Sept. 15	1202	{ 307 308	32	1251
Cash and parcel carrier.....	J. C. Martin.....	314,339	Mar. 24	1760	{ 469 282	30	1130
Cash and parcel carrier.....	R. A. McCarty.....	325,425	Sept. 1	282	{ 69, 70 283	32	1069
Cash and parcel carrier.....	R. A. McCarty.....	325,426	Sept. 1	283	{ 70 342	32	1069
Cash and parcel carrying system for store-service.....	J. T. Cowley.....	311,108	Jan. 20	1250	{ 343 343	30	944
Cash and parcel carrying system for store-service.....	J. K. P. Nourse.....	311,513	Feb. 3	74	{ 92, 93 866	30	363
Cash and parcels in dry-goods stores. Device for transporting.....	J. R. H. Hinton.....	321,360	June 30	3244	{ 866	31	1673
Cash and parcel transmitting apparatus for store-service.....	W. H. Gilman.....	318,719	May 26	2392	{ 638 639	31	968
Cash-box.....	L. W. Loveless.....	319,498	June 9	719	{ 193 238	31	1190
Cash-box system. Automatic.....	J. C. Martin.....	331,418	Dec. 1	238	{ 62 120	33	1049
Cash-carrier.....	C. Baltzell.....	317,281	May 5	477	{ 121 287	31	610
Cash-carrier.....	T. E. Barrow.....	331,936	Dec. 8	1028	{ 307 658	33	1191
Cash-carrier.....	R. F. Gibson.....	330,777	June 23	2486	{ 658 1778	31	1526
Cash-carrier.....	C. H. Kelley.....	318,262	May 19	1778	{ 475 1779	31	869
Cash-carrier.....	C. H. Kelley.....	318,263	May 19	1779	{ 475 1106	31	869
Cash-carrier.....	T. M. Kenney and F. E. Mason.....	311,011	Jan. 20	1106	{ 303 2428	30	219
Cash-carrier.....	T. M. Kenney and F. E. Mason.....	311,245	Nov. 24	2428	{ 658 309	32	967
Cash-carrier.....	D. Lippy.....	326,130	Sept. 15	1209	{ 309 310	32	1252
Cash-carrier.....	D. Lippy and P. Ott.....	326,131	Sept. 15	1211	{ 310 310	32	1253
Cash-carrier.....	D. Lippy and P. Ott.....	328,323	Oct. 13	1049	{ 871 1809	33	199
Cash-carrier.....	F. C. Perkins and C. H. Kelley.....	318,287	May 19	1809	{ 484 464	31	874
Cash-carrier.....	F. C. Perkins and C. H. Kelley.....	321,752	July 7	464	{ 123 500	32	86
Cash-carrier.....	A. Strickland.....	318,326	May 19	1864	{ 500 121	31	863
Cash-carrier apparatus.....	D. H. Rice.....	313,370	Mar. 3	466	{ 121 122	30	863
Cash-carrier apparatus.....	D. H. Rice.....	318,294	May 19	1817	{ 486 487	31	875
Cash-carrier. Automatic.....	J. W. Flagg.....	316,531	Apr. 28	2139	{ 563 257	31	406
Cash-carrier. Automatic.....	J. W. Flagg.....	319,692	June 9	968	{ 257 161	31	1206
Cash-carrier. Automatic.....	D. K. Hill.....	311,807	Feb. 10	587	{ 161 325	30	465
Cash-carrier elevator.....	D. E. Kempster.....	332,085	Dec. 8	1947	{ 325 857	33	1220
Cash-carrier elevator.....	W. S. Lamson.....	310,832	Jan. 13	857	{ 232 68	30	168
Cash-carrier elevator.....	J. C. Miller.....	329,475	Nov. 3	68	{ 19 708	33	517
Cash-carrier. Pneumatic.....	W. G. Davis.....	323,113	Dec. 29	2700	{ 708 3081	32	1501
Cash-carrier. Pneumatic.....	W. G. Davis and W. M. Hinman.....	323,397	Dec. 29	3081	{ 804 439	33	1575
Cash-carrying apparatus.....	D. H. Rice.....	314,263	Mar. 24	1655	{ 439 440	30	1110
Cash-carrying apparatus.....	D. H. Rice.....	314,264	Mar. 24	1656	{ 440 398	30	1110
Cash-carrying apparatus.....	D. H. Rice.....	318,032	May 19	1487	{ 398 399	31	813
Cash-carrying apparatus.....	D. H. Rice.....	318,139	May 19	1623	{ 434 1636	31	838
Cash-carrying apparatus.....	D. H. Rice.....	320,166	June 16	1636	{ 435 728	31	1361
Cash-carrying apparatus.....	D. H. Rice.....	320,965	June 30	2738	{ 728 729	31	1579
Cash-railway switch.....	W. H. and F. L. Wiggins.....	310,764	Jan. 13	777	{ 910 2658	20	152
Cash-recorder.....	A. S. Keating.....	327,176	Sept. 29	2658	{ 2658	32	1598

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cash-recorder.....	J. Ritty.....	318,506	May 26	2107	568	31	937
Cash-register.....	C. H. Maltby.....	318,485	May 26	2075	560	31	931
Cash-register.....	W. C. McGill.....	312,740	Feb. 24	1750	581	30	698
Cash register and indicator.....	C. B. Hopkins.....	321,815	July 7	553	145	32	102
Cash register and indicator.....	C. H. Maltby.....	321,988	July 14	794	207	32	153
Cash register and indicator.....	W. H. Maxwell.....	325,260	Sept. 1	36	11	32	1022
Cash register and indicator.....	C. J. Weinman.....	321,163	June 30	2998	795	31	1626
Cash system.....	T. M. Kenney.....	329,050	Oct. 27	2070	538	33	398
Casket-plate.....	G. W. Moulton.....	330,846	Nov. 17	1885	509	33	880
Cast wheel.....	W. N. Whitely.....	322,736	Oct. 20	1696	423	33	311
Caster.....	J. Berkoy.....	318,533	May 26	2149	579	31	945
Caster.....	H. Clark.....	329,275	Oct. 27	2328	617	33	457
Caster.....	G. W. Curry.....	318,963	June 2	45	12	31	1057
Caster.....	N. Drucker.....	327,147	Sept. 29	2615	681	32	1521
Caster.....	W. Koch.....	312,733	Feb. 24	1736	478	30	695
Caster.....	M. Lacrone and A. K. Hahn.....	318,752	May 26	2440	654	31	997
Caster.....	S. C. Mendenhall.....	314,948	Mar. 31	2602	689	30	1310
Caster.....	S. C. Mendenhall.....	314,949	Mar. 31	2604	689	30	1310
Caster.....	S. C. Mendenhall.....	314,950	Mar. 31	2605	689	30	1310
Caster.....	S. C. Mendenhall.....	314,951	Mar. 31	2606	689	30	1310
Caster.....	S. C. Mendenhall.....	314,952	Mar. 31	2606	690	30	1311
Caster.....	S. C. Mendenhall.....	314,953	Mar. 31	2607	690	30	1311
Caster.....	S. C. Mendenhall.....	314,954	Mar. 31	2609	690	30	1311
Caster.....	S. C. Mendenhall.....	314,955	Mar. 31	2610	690	30	1311
Caster.....	S. C. Mendenhall.....	314,956	Mar. 31	2611	691	30	1311
Caster.....	S. C. Mendenhall.....	314,957	Mar. 31	2612	691	30	1311
Caster.....	S. C. Mendenhall.....	314,958	Mar. 31	2613	691	30	1311
Caster.....	S. C. Mendenhall.....	314,959	Mar. 31	2613	692	30	1312
Caster.....	S. C. Mendenhall.....	314,960	Mar. 31	2615	692	30	1312
Caster.....	S. C. Mendenhall.....	314,961	Mar. 31	2617	692	30	1312
Caster.....	S. C. Mendenhall.....	314,962	Mar. 31	2619	693	30	1313
Caster.....	S. C. Mendenhall.....	314,963	Mar. 31	2620	693	30	1313
Caster.....	S. C. Mendenhall.....	314,964	Mar. 31	2622	694	30	1313
Caster.....	S. C. Mendenhall.....	314,965	Mar. 31	2624	694	30	1313
Caster.....	S. C. Mendenhall.....	314,966	Mar. 31	2626	695	30	1314
Caster.....	S. C. Mendenhall.....	314,967	Mar. 31	2628	695	30	1314
Caster.....	S. C. Mendenhall.....	314,968	Mar. 31	2629	695	30	1314
Caster.....	S. M. Michelson.....	313,097	Mar. 3	76	20	30	791
Caster.....	S. M. Michelson.....	315,382	Apr. 21	1922	509	31	361
Caster.....	S. M. Michelson.....	322,308	July 14	1201	315	32	228
Caster.....	S. M. Michelson. (Reissue).....	10,627	July 21	2000	528	32	350
Caster.....	W. A. Osborn and D. M. Estey.....	331,211	Nov. 24	2380	644	33	978
Caster.....	J. R. Payson, Jr.....	324,156	Aug. 11	1017	217	32	719
Caster.....	D. J. Powers.....	313,023	Feb. 24	2128	579	30	764
Caster.....	J. L. Purple.....	331,732	Dec. 1	734	185	33	1127
Caster.....	G. H. Rice.....	324,487	Aug. 18	1471	403	32	811
Caster.....	M. Schwerin.....	326,156	Sept. 15	1251	320	32	1260
Caster.....	J. W. See.....	315,330	Apr. 14	822	216	31	153
Caster.....	J. W. See.....	321,859	July 7	626	161	32	114
Caster.....	J. W. Smith.....	318,411	May 26	2527	674	31	1010
Caster.....	R. S. Thompson.....	331,461	Dec. 1	297	80	33	1051
Caster.....	W. Van Valkenbergh and D. E. Teal.....	332,629	Dec. 15	2009	527	33	1369
Caster.....	G. Walter.....	318,403	May 19	1976	531	31	904
Caster.....	F. K. Way.....	314,764	Mar. 31	2349	622	30	1265
Caster and insect-guard combined.....	L. A. Michelson.....	313,325	Mar. 3	285	72	30	828
Caster. Furniture.....	A. B. Dias.....	324,420	Aug. 25	1940	533	32	906
Caster. Furniture.....	F. W. Jackson.....	314,447	Mar. 31	2459	649	30	1285
Caster. Furniture.....	E. Pfeiffer.....	320,281	June 16	1795	477	31	1389
Casting apparatus.....	C. Wittenström.....	317,063	May 5	173	44	31	554
Casting appliance for stereotype-bars.....	J. O. Clephane.....	311,413	Jan. 27	1689	400	30	331
Casting car-axle boxes.....	I. H. Congdon.....	314,226	Mar. 24	1608	425	30	1102
Casting car-wheels.....	W. Wilmington.....	315,872	Apr. 14	1238	323	31	231
Casting compound metal ingots.....	A. J. Lustig.....	324,712	Aug. 18	1784	492	33	870
Casting copper ingots. Mold for.....	W. R. Walton.....	315,192	Apr. 7	301	72	31	54
Casting. Divided.....	J. Yocum, Jr.....	317,095	May 12	1030	267	31	718
Casting-gate.....	C. Truesdale.....	332,462	Dec. 15	1766	462	33	1327
Casting hollow metal bodies with a non-oxidizable lining.....	L. Stevens.....	327,033	Sept. 29	2457	.....	32	1494
Casting horsehoes. Apparatus for.....	T. McGrane.....	315,314	Apr. 7	456	116	31	83
Casting ingots of alternate layers of metal.....	J. Illingworth.....	320,560	June 23	2211	585	31	1474
Casting machines. Nipple-plate for type.....	J. F. Gabel and J. B. Guelpa.....	327,079	Sept. 29	2519	656	32	1504
Casting. Making metallic suspension-wheels by.....	A. O. Frick.....	314,173	Mar. 17	1542	403	30	1079
Casting metal. Apparatus for making sand molds for.....	E. Breslauer.....	315,116	Apr. 7	172	42	31	32
Casting metal. Facing or molding material for molds for.....	C. Wittenström.....	317,062	May 5	171	.....	31	554
Casting metal ingots.....	F. Billings and W. R. Hinsdale.....	319,779	June 9	1086	289	31	1257
Casting metal ingots. Apparatus for.....	F. Billings.....	319,780	June 9	1088	289	31	1257
Casting metal pipe. Apparatus for forming molds for.....	J. K. Dimmick.....	317,101	May 5	224	57	31	564
Casting metals.....	M. P. Hayes.....	317,533	May 12	818	210	31	680
Casting-mold.....	J. R. Davies.....	332,503	Dec. 15	1823	478	33	1337
Casting-mold.....	J. R. Davies.....	332,504	Dec. 15	1825	479	33	1337
Casting-mold.....	S. N. Goodman.....	330,109	Nov. 10	930	242	33	689
Casting-mold. Metal.....	W. S. Platt.....	331,437	Dec. 1	261	71	33	1045
Casting-mold. Type.....	R. Guichwitz.....	314,227	Mar. 31	2436	643	30	1281
Casting-molds. Machine for making.....	M. R. Moore.....	331,208	Nov. 24	2371	642	33	978
Casting printers' leads. Mold for.....	H. C. Hansen.....	327,546	Oct. 6	59	14	33	12

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Casting. Refining or preparing copper for	W. R. Walton	324,505	Aug. 18	1502	32	816
Casting rolls	J. Hemphill	317,781	May 12	1139	302	31	739
Casting rolls and other articles. Mold for	W. Hainsworth	323,807	Aug. 4	545	155	32	628
Casting rolls. Mold for	W. W. Wallace	327,840	Oct. 6	436	114	33	78
Casting. Sand-molding machine for running riddled sand into molds for	W. Doyle	312,983	Feb. 24	2092	563 564	30	753
Casting seamless tubing. Mold for	A. Rais	331,890	Dec. 8	855	919	33	1157
Casting steel and other metal bars, rods, &c. Apparatus for	C. M. Pielsticker and F. C. G. Müller	326,147	Sept. 15	1233	315 316	32	1254
Casting steel ingots	S. T. Williams	331,856	Dec. 8	907	234	33	1168
Casting steel. Mold for	J. Henderson	315,741	Apr. 14	1064	879	31	806
Casting steel. Mold for	J. Henderson	316,544	Apr. 28	2154	567	31	409
Casting steel wheels. Metal mold for	W. Sellers	319,515	June 9	741	199	31	1194
Casting stereotype-plates. Paper mold for	L. H. Allen	326,376	Sept. 15	1561	403	32	1316
Casting stove-door catches. Casting for	C. Vetter	321,549	July 7	200	53	32	39
Castings. Apparatus for forming cores or molds for	R. Savage	329,958	Nov. 10	736	186	33	647
Castings from wrought-iron and steel by adding aluminum. Manufacturing	C. G. Wittenström	333,373	Dec. 29	3053	.....	33	1570
Castings. Machine for making molds for	M. R. Moore	318,784	May 26	2488	665	31	1004
Castings. Machinery for making molds for	M. R. Moore. (Reissue)	10,562	Feb. 24	2148	564	30	768
Castings. Metal mold for	C. Wittenström	317,064	May 5	175	44	31	535
Castings. Truing	O. J. Ziegler	312,693	Feb. 24	1680	463	30	688
Casting-instrument	J. F. Allen	329,691	Nov. 3	358	91	33	573
Catch or fastening. Spring	J. D. Ripson and R. Watson	326,331	Sept. 15	1494	390	32	1306
Catch. Safety	E. H. Johnson	314,582	Mar. 31	2090	558	30	1917
Cattle-fastener	E. Prescott and C. H. T. Mann	313,524	Mar. 10	669	174	30	910
Cattle-fastening	J. C. Buzzell	310,984	Jan. 20	1073	292	30	219
Cattle-guard	L. T. Hardy	325,606	Sept. 1	514	129	32	1113
Cattle. Safety attachment for horned	W. P. Simonds	325,021	Aug. 25	2209	606	32	935
Caulic-holder	H. Bell	314,420	Mar. 24	1865	496	30	1151
Caulicizing apparatus	F. M. Roy	312,512	Feb. 17	1457	390	30	634
Ceiling. Fire-proof	H. Manrer	324,716	Aug. 18	1788	493	32	871
Ceiling. Fire-proof	P. B. Wight	322,873	July 21	1974	523	32	375
Ceiling. Metallic	A. Northrop	330,915	Nov. 24	1979	535	33	905
Ceiling. Metallic	A. Northrop	330,916	Nov. 24	1980	535 536	33	905
Ceiling. Metallic	A. Northrop	330,917	Nov. 24	1981	536	33	905
Cell-package for fruit, &c.	S. H. Smith	317,033	May 5	133	34	31	546
Cell-tray	W. A. Moore	314,864	Mar. 31	2486	650	30	1290
Cell-cases. Partition for	G. L. Jaeger	324,999	Aug. 25	2184	598	32	950
Cellonite or nitro-cellulose article	J. R. Franco	328,843	Oct. 20	1751	456	33	335
Celluloid and other plastic materials. Manufacture of articles from	C. C. Chickering	329,373	Oct. 27	2368	616	33	456
Celluloid, &c., in the production of enameled goods or veneering. Utilizing	J. H. Stevens and W. H. Wood	329,003	Oct. 27	2132	.....	33	406
Cellulose. Making solid compounds from soluble nitro-	J. W. Hyatt and J. Everding	326,119	Sept. 15	1190	304	32	1249
Cellulose or paper-pulp from wood fiber. Apparatus for the manufacture of	E. Ritter and C. Kellner	328,812	Oct. 20	1710	445	33	328
Cellulose or paper-pulp from wood fiber. Manufacturing	E. Ritter and C. Kellner	329,215	Oct. 27	2306	597	33	441
Cellulose or paper-pulp from woody fiber. Apparatus for the manufacture of	E. Ritter and C. Kellner	329,214	Oct. 27	2305	597	33	440
Cement. Machine for testing	H. Fajla	317,752	May 12	1100	289	31	732
Cement. Machinery for manufacturing Portland	D. Griffiths	313,303	Mar. 3	241	61	30	621
Cement. Manufacture of	W. Joy	331,243	Nov. 24	2426	.....	33	987
Cement. Manufacture of	R. W. Lealey and D. Griffith	321,121	June 30	2949	.....	31	1616
Cement. Manufacture of	H. Mathey	330,602	Nov. 17	1570	.....	33	890
Cement. Manufacture of hydraulic	R. Bryce	315,711	Apr. 14	1015	.....	31	190
Cement. Manufacture of hydraulic	J. Dimelow	321,589	July 7	246	.....	32	48
Cement. Manufacture of hydraulic	D. Griffiths	311,895	Feb. 10	585	.....	30	465
Cement. Manufacture of Portland	R. W. Lealey	313,217	Mar. 3	260	.....	30	825
Cement. Manufacture of Portland	J. M. Wilcox	333,370	Dec. 29	3050	.....	33	1569
Cement. Manufacturing Portland	R. W. Lealey and D. Griffith	321,120	June 30	2948	781	31	1616
Cement, &c. Wash-tub, sink, or other vessel made of	C. Weesly	327,209	Sept. 29	2696	701	32	1537
Center-board	M. W. Atwood	313,796	Mar. 10	1033	265	30	978
Center-board	W. J. Root and W. Childs	319,930	June 9	1309	345	31	1295
Center or other table	W. T. Burroughs	326,102	Sept. 15	1170	290	32	1945
Centering device for tenoning and other machines	W. H. Doane	328,391	Oct. 13	1158	299	33	219
Centering-gage	D. W. Standeford	316,918	Apr. 28	2095	702	31	509
Centering hubs and other blocks. Device for	B. Wing	330,536	Nov. 17	1451	399	33	884
Centering-tool	G. W. Varnum	311,610	Feb. 3	213	60	30	389
Centricycle or bicycle	T. Crispin	333,448	Dec. 29	3149	823	33	1788
Centrifugal machine	F. A. Cloudman	328,190	Oct. 13	887	231	33	168
Centrifugal machine	J. Laidlaw	319,493	June 9	711	191	31	1186
Centrifugal machine	J. Nielsen and M. Pedersen	330,345	Nov. 10	1231	329	33	748
Centrifugal machine	E. Rothe	322,069	July 14	907	234	32	173
Centrifugal machine	E. Rothe	331,450	Dec. 1	219	76	33	1046
Centrifugal machine	A. L. Sieghörner, Jr.	320,595	June 23	2260	598	31	1483
Centrifugal machine	W. H. Tolhurst	322,762	July 21	1816	420	32	346
Centrifugal machines. Electric driving apparatus for	A. Watt	316,316	Apr. 21	1839	485	31	346
Centrifugal machines. Electric driving apparatus for	A. Watt	316,317	Apr. 21	1841	486	31	346
Centrifugal reel	C. O. Doat	333,398	Dec. 29	3083	804 805	33	1575
Centrifugal reel	E. R. Draver	326,901	Sept. 29	2226	598	32	1455
Centrifugal reel	W. D. Gray	311,898	Feb. 3	471	122 129	30	437
Centrifugal reel	B. Kniffner	326,509	Sept. 15	1709	446	32	1246
Centrifugal reel	G. T. Smith and W. H. Dickey	327,332	Sept. 29	2848	743	32	1563
Centrifugal reel	G. T. Smith and W. H. Dickey	327,333	Sept. 29	2850	743	32	1563
Centrifugal separator	A. H. Van Duzee	325,288	Sept. 1	79	23, 24	32	1031
Cereals. Preparing flaked	A. W. Gilman and S. Spencer	332,073	Dec. 8	1225	33	1296

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Chain	W. C. Edge	324,016	Aug. 11	825	228	32	684
Chain	J. G. Powell	324,587	Aug. 18	1603	441	32	837
Chain bar. Watch	J. Hoagland	311,429	Jan. 27	1712	466	30	335
Chain. Drive	C. E. Alden	322,405	July 21	1341	349	32	261
Chain. Drive	G. S. Briggs	325,494	Sept. 1	372	91	32	1086
Chain. Drive	J. M. Dodge	330,004	Nov. 10	790	203	33	659
Chain. Drive	W. A. Draves	317,103	May 5	227	57	31	565
Chain. Drive	C. H. Eggleston	322,431	July 21	1374	359	32	267
Chain. Drive	C. W. Heald	310,997	Jan. 20	1091	299	30	216
Chain. Drive	E. Huber	321,361	June 30	3246	866	31	1674
Chain. Drive	R. F. Ludlow	326,307	Sept. 15	1468	382	32	1301
Chain. Drive	E. Y. Moore	328,050	Oct. 13	705	186	33	134
Chain. Drive	J. J. Seldner	324,734	Aug. 18	1810	500	32	875
Chain. Drive	W. Stephens	322,653	July 21	1674	443	32	320
Chain. Drive	J. H. Weaver	332,311	Dec. 15	1560	410	33	1291
Chain for bracelets	I. Cole	332,053	Dec. 8	1199	313	33	1221
Chain for wagons. Tongue	W. P. Brown	333,386	Dec. 29	3066	800	33	1572
Chain-hooks. Machine for shaping	B. McKillen	310,290	June 2	432	116	31	1129
Chain-link	W. Gerhard	310,267	Jan. 6	142	40	30	28
Chain-link	D. Munro	333,095	Dec. 22	2667	700	33	1496
Chain-link	J. P. Preston	331,326	Dec. 1	83	22	33	1015
Chain-link and cigar-cutter. Combined ornamental	C. F. Veit	324,281	Aug. 11	1196	325	32	753
Chain-link die	F. A. Iddings	319,724	June 9	1022	270	31	1246
Chain link. Drive	E. Y. Moore	316,992	May 5	85	23	31	538
Chain-links. Machine for making and twisting	C. H. Reinisch	310,317	Jan. 6	200	57	30	40
Chain-links. Machine for putting together	E. L. Howe	317,790	May 12	1151	304	31	742
Chain-machine	F. P. Hinds	331,397	Dec. 1	198	51, 52	33	1033
Chain-machine	C. F. Pardee	329,334	Oct. 27	2480	640	33	473
Chain. Machine-roller	W. Morgan	329,407	Oct. 27	2592	668	33	492
Chain-machines. Link-counting attachment for	E. L. Howe	329,837	Nov. 3	561	142	33	609
Chain. Metal	F. Egge	330,214	Nov. 10	1062	277	33	715
Chain. Ornamental	B. F. Evans	323,662	Aug. 4	617	173	32	640
Chain. Ornamental	B. S. Freeman, Jr., and E. L. Robinson	311,114	Jan. 20	1257	344	30	246
Chain. Ornamental	R. S. Matteson	318,997	June 2	85	22	31	1064
Chain. Ornamental	J. Obrig	324,582	Aug. 18	1397	440	32	836
Chain spring-link	A. W. Cox	327,665	Oct. 6	465	121	33	82
Chains. Appendage for ornamental	J. L. Sweet	331,743	Dec. 1	749	189	33	1131
Chains. Connecting-link for	C. N. Waterhouse	321,554	July 7	205	54	32	40
Chair:							
See Adjustable chair.	Nursery-chair.						
Arm-chair.	Opera-chair.						
Barber's chair.	Operating-chair.						
Camp-chair.	Oscillating chair.						
Child's chair.	Photographer's chair.						
Convertible chair.	Reclining-chair.						
Dental chair.	Revolving chair.						
Dentist's chair.	Rocking-chair.						
Dentist's or photog-	Sewing-chair.						
rapher's chair.	Spring vibrating chair.						
Desk-chair.	Steamer, lawn, and in-						
Exercising-chair.	valid chair.						
Folding chair.	Surgeon's chair.						
Hammock-chair.	Surgeon's or reclining						
Infant's posing-	chair.						
chair.	Surgical chair.						
Invalid-chair.	Swinging chair.						
Invalid's convertible	Tilting-chair.						
chair.	Window-cleaning chair.						
Chair	W. Atwater	324,288	Aug. 11	1204	328	32	754
Chair	W. Boscawen	329,805	Nov. 3	511	130	33	602
Chair	G. L. Burdett	317,497	May 12	774	197	31	672
Chair	A. S. Carter	317,295	May 5	500	126	31	614
Chair	F. Chichester	333,393	Dec. 29	3075	802	33	1574
Chair	L. A. Chichester	328,760	Oct. 20	1647	429	33	315
Chair	L. A. Chichester	328,838	Oct. 20	1746	455	33	334
Chair	L. A. Chichester	330,206	Nov. 10	1052	274	33	713
Chair	C. Closterman	320,629	June 23	2309	609	31	1491
Chair	J. W. H. Doubler	317,933	May 12	1341	360	31	778
Chair	P. E. Dove	323,797	Aug. 4	531	150	32	623
Chair	L. Ehrlich	327,668	Oct. 6	231	56	33	41
Chair	G. F. Hall and G. M. Lane	331,634	Dec. 1	595	447	33	1101
Chair	B. F. Hardenburgh	318,469	May 26	2056	556	31	928
Chair	F. E. Harrington	332,711	Dec. 22	2144	566	33	1399
Chair	B. F. Hubbs and W. Y. Bygate	321,897	July 7	669	173	32	122
Chair	G. W. Morstatt	317,468	May 5	734	185	31	655
Chair	J. Short	326,165	Sept. 15	1259	322	32	1261
Chair	A. F. White	331,352	Dec. 1	133	33	33	1021
Chair	G. Wilson, Jr	326,368	Sept. 15	1545	401	32	1315
Chair and bed. Convertible	H. Morger	324,268	Aug. 11	1180	320	32	749
Chair and couch. Combined	J. A. Crandall	324,641	Aug. 18	1719	473	32	874
Chair and sleeper. Manufacture of combined	P. Kirk	325,094	Aug. 25	2302	633	32	974
Chair and stringer. Combined	J. K. Lake	323,430	Aug. 4	60	15, 16	32	534
Chair-back	H. M. Rich	323,296	July 28	2454	651	32	471
Chair-backs, &c. Manufacture of	H. J. Harwood	327,549	Oct. 6	64	14	33	13
Chair corner-iron	I. D. Comstock and E. J. Gibson	323,117	July 28	2328	617	32	447
Chair head-rest	E. T. Starr and L. Teal	313,721	Mar. 10	1007	260	30	973
Chair-rocker. Detachable	G. Work	315,369	Apr. 7	527	135	31	96
Chair-seat	C. Closterman	316,333	Apr. 21	1859	492	31	349
Chair-seat and chair	F. Latulip	317,382	May 5	612	157	31	635

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Chair seats, backs, &c., from caoutchouc and other plastic material. Die for the formation of	F. Latulip	318,754	May 26	2442	655	31	997
Chair-seatings. Metal splice for uniting the ends of cane strips for	F. A. Sinclair	327,731	Oct. 6	304	78	33	53
Chair-socket	J. F. Thomas	325,086	Aug. 25	2214	607	32	956
Chairs. Book-rest for	J. D. McClure	331,149	Nov. 24	2288	630	33	962
Chairs, &c. Extensible bottom for	A. Van Wie	323,610	Aug. 4	298	85	32	577
Chalk-holder	D. Jennings	331,139	Nov. 24	2274	617	33	960
Chalk-line reel	H. F. Haalam	320,555	June 23	2207	583	31	1473
Chalk-rack. Sectional	J. G. Plovman	326,453	Sept. 15	1640	429	32	1332
Chalk. Substitute for billiard-cue	W. H. Wiggins	329,349	Oct. 27	2502	33	477	
Chalk unbreakable. Rendering billiard and writing.	A. Hamann	330,019	Nov. 10	811	33	663	
Chandelier	R. F. Barnes	323,025	Aug. 4	329	93	32	598
Chandelier and rotating fan. Combined	P. Murray, Jr	332,821	Dec. 22	2274	509	33	1425
Chandelier. Extension	R. L. Brewer	316,230	Apr. 21	1724	453	31	536
Chandelier. Extension	J. F. Brown	319,061	June 2	157	42	31	1076
Chandelier. Extension	J. Kintz	331,506	July 7	128	34	32	25
Chandelier. Extension	L. T. Lawton	311,078	Jan. 20	1209	331	30	238
Change-box signaling attachment	W. J. Abernethy	323,384	Aug. 4	1	1	32	523
Channel-flap layer	O. Gilmore	310,068	Jan. 13	651	179	30	120
Channel-flap-laying machine	O. Gilmore	327,081	Sept. 29	2521	657	32	1504
Channeler. Adjustable concentric	J. C. Smith	326,342	Sept. 15	1508	393	32	1308
Channels for navigation. Deepening and maintain- ing	J. C. Goodridge, Jr	320,129	June 16	1591	421	31	1353
Channeling-machine drill-head	W. L. Saunders	311,378	Jan. 27	1643	449	30	222
Channeling-machines. Drill-head for	W. L. Saunders	320,225	June 16	1815	482	31	1283
Charcoal-kiln	W. A. Lovelace	327,804	Oct. 6	392	102	33	69
Charm. Watch-	C. H. Davis	327,245	Sept. 29	2741	711	32	1545
Charm. Watch-chain	F. T. Pearce and J. Hoagland	315,328	Apr. 7	471	119	31	96
Chart. Dress-	S. T. Lewis	321,986	July 14	792	207	32	122
Chart. Dress-	M. E. Northen	325,216	Aug. 25	2463	677	32	1003
Chart for cutting garments. Tailor's	J. S. Olson	325,358	Sept. 1	166	45	32	1046
Chart for laying out patterns	J. J. G. C. Schmidt	327,745	Oct. 6	297	75, 76	33	32
Chart for teaching and producing facial expressions	F. E. Woodin	331,268	Nov. 24	2467	666	33	993
Chart. Radially-folding synchronous	J. M. Ludlow, I. K. Funk, and A. W. Wagnalls	329,178	Oct. 27	2245	581	33	428
Charts and drawings distorted by disproportionate contraction, and providing for their correct republication. Measuring distances and lengths on	E. R. Knorr	317,801	May 12	1167	310	31	744
Check. Baggage	A. D. Joalin	324,388	Aug. 18	1343	365	32	729
Check-cutter. Adjustable	F. E. Smith	313,544	Mar. 10	692	181	30	915
Check, draft, or other money-order	W. T. Doremus	325,199	Aug. 25	2440	671	31	1065
Check for horses. Driving	E. L. Metcalf	319,006	June 2	93	24	31	314
Check for horses. Driving	E. L. Metcalf	322,027	July 21	1640	434	32	696
Check for horses. Driving	E. L. Metcalf	323,048	Aug. 11	731	204	32	1115
Check-hook	E. Kohler	325,013	Sept. 1	523	132	32	1282
Check-hook	N. McGoldrick	332,209	Dec. 15	1508	395	33	335
Check-hook. Harness	F. T. Davis	331,040	Nov. 24	2131	578	33	402
Check-hook. Harness	R. J. Welles	316,510	Apr. 28	2117	557	31	953
Check-machine. Automatic	C. W. Weiss and C. Kruse	313,609	Mar. 10	891	232	30	861
Check-receiver	A. B. Gill	324,677	Aug. 18	1740	479	32	1498
Check-rein and post-hook	C. L. Bard	327,056	Sept. 29	2487	649	32	1490
Check-rein and post-hook	C. L. Bard	327,057	Sept. 29	2489	650	32	1490
Check-rein and post-hook	C. L. Bard	327,058	Sept. 29	2490	650	32	1490
Check-rein hook	R. Attwood	310,437	June 9	633	171	31	1175
Check-rein hook	H. H. Hobart and E. T. Combes	326,217	Sept. 15	1336	346	32	1275
Check-rein hook	R. W. Owen	329,852	Nov. 3	561	148	33	613
Check-row line	O. O. Kittleson	316,792	Apr. 28	255	635	31	474
Check-row wire. Reel for	C. F. James and F. N. Carder	315,790	Apr. 14	1132	297	31	212
Check-row wire. Reel for	G. W. and F. P. Murphey	329,066	Oct. 27	2092	543	33	402
Check-row wires. Anchor-stake for	W. H. Clay	310,384	Jan. 6	298	88	30	57
Check-rower	L. D. Beuner	312,179	Feb. 10	967	269	30	578
Check-rower	O. J. Colton	321,087	June 30	2906	773	31	1609
Check-rower	J. G. Gibson	315,494	Apr. 14	716	189	31	134
Check-rower	G. D. Haworth	323,036	July 22	2210	587	32	425
Check-rower	G. W. Packer	321,449	July 7	54	16	32	13
Check-rower	O. S. Willett and J. W. Fitzgerald	317,257	May 5	448	112	31	605
Check-rower attaching-iron	L. Eberhart and I. D. Stevens	329,725	Nov. 3	404	103	33	582
Check-rower ropes. Reel for	J. R. Enos	311,302	Jan. 27	1536	418	30	392
Check-rower wire anchor or equalizer	A. T. Crow	328,879	Oct. 20	1794	468	33	342
Check-rower wire. Machine for forming	G. W. Caywood	314,106	Mar. 17	1452	380	30	1063
Check-spring. Tension	T. H. Hlicks	310,426	Jan. 6	342	94	30	67
Checking and registering baggage	L. G. Reynolds	314,215	Mar. 17	1587	420	30	1068
Checking device. Freight	W. B. Thomas	329,345	Oct. 27	2497	645	33	476
Cheese-bandage and shipping-case. Combined	F. W. Brenton	315,896	Apr. 14	1278	333	31	238
Cheese-bandages. Reel for measuring and cutting	A. J. Lumsden	331,803	Dec. 8	823	210	33	1152
Cheese-cover base	J. E. Keck	320,141	June 16	1606	425	31	1355
Cheese-cutter	W. R. Warden	318,333	May 19	1683	506	31	887
Cheese. Manufacture of	D. H. Burrell	319,682	June 9	1244	31	1263	
Cheese-press	G. Schuette	321,857	July 7	624	160	32	114
Cheese-press. Gang	R. W. Jacobs	323,337	July 28	2641	703	32	503
Cheese-rat	L. H. Sparks	328,352	Oct. 13	1089	283	33	207
Chenille and manufacturing the same. Spun	W. E. and A. C. Oebler	332,938	Dec. 22	2440	645	33	1457
Chenille-cutting machine	W. McIlwain	333,319	Dec. 29	2966	782	33	1559
Cherry-pitting machine	J. McVickar	312,370	Feb. 17	1251	345	30	596
Cherry-seeding machine	G. W. Knapp	330,839	Nov. 17	1872	506	33	878
Chest: See Bolting-chest. Flour-chest.							
Chicken-brooder	G. B. Bayley	330,547	Nov. 17	1503	402	33	506
Chicken-brooder	F. Rosebrook	317,210	May 5	387	97	31	594

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Chicken-brooder	M. H. Strong	331,096	Nov. 24	2207	598	33	948
Chicken-cholera. Remedy for	G. W. and J. D. Ross	313,956	Mar. 17	1268		30	1029
Chicken-house	J. Burgert	323,789	Aug. 4	519	146	32	620
Chicken-house	H. Eveason	319,081	June 2	183	49	31	1092
Chickens. Artificial mother for raising	H. B. Tatham, Jr.	321,060	June 30	2871	764	31	1603
Chickens. Brooding-house for	J. Griscom	319,234	June 2	362	97	31	1116
Child's chair	A. Knowlton	325,178	Aug. 25	2411	662	32	993
Child's chair	F. F. Parker	317,668	May 12	994	258	31	712
Child's chair	F. F. Parker	322,472	July 21	1434	376	32	277
Child's chair-tray	R. L. Bent	317,707	May 12	1042	271	31	721
Child's-chair tray	H. H. Paine	318,131	May 19	1613	431	31	836
Chime. Orchestra	J. R. Lomas	317,391	May 5	623	159	31	636
Chimney	J. Stine	328,152	Oct. 13	439	218	33	159
Chimney and ventilator. Combined	T. C. Harry	314,228	Mar. 24	1620	428	30	1104
Chimney and ventilator top	C. H. Casselmann	317,973	May 19	1408	378	31	799
Chimney-cap	C. W. Carl	317,294	May 5	498	125	31	614
Chimney-cap	H. S. Dickinson	310,391	Jan. 6	305	84	30	50
Chimney-cap	J. MacDonald	332,810	Dec. 92	2261	596	33	1422
Chimney-cap	P. D. Sexton	319,750	June 9	1051	278	31	1251
Chimney-cap	T. J. Steen	312,918	Feb. 24	1980	540	30	738
Chimney-cap	J. W. Wetmore	325,032	Aug. 25	2921	609	32	958
Chimney cap and ventilator	W. J. and C. Kayser	320,794	June 23	2504	663	31	1530
Chimney cap and ventilator	W. J. and C. Kayser	321,720	July 7	423	113	32	79
Chimney cap and ventilator	K. Ruetschi	313,375	Mar. 3	472	123	30	864
Chimney cap or ventilator	M. W. Kidder	316,898	Apr. 28	2663	694	31	503
Chimney-cowl	T. J. Bra'beer	319,552	June 9	790	209	31	1202
Chimney-cowl	W. E. Cooper	312,553	Feb. 17	1506	411	30	643
Chimney-cowl	T. Crüger	312,078	Feb. 24	2055	561	30	752
Chimney-cowl	I. G. Lane	318,632	May 26	2279	609	31	986
Chimney-cowl	G. W. Powers, J. H. Jones, and J. M. Powers	320,815	June 23	2531	671	31	1535
Chimney cowl and ventilator	G. Fischer	330,223	Nov. 24	1936	525	33	897
Chimney cowl and ventilator	W. G. Henis	310,781	Apr. 28	2493	651	31	471
Chimney cowl and ventilator	W. G. Henis	332,523	Dec. 15	1864	487	33	1342
Chimney-flashing	T. H. Apple	316,861	Apr. 28	2611	681	31	493
Chimney-flue. Safety	S. W. Schnabel	318,301	May 19	1830	490	31	878
Chimney for dwelling-houses	W. E. Stevens	311,149	Jan. 20	1307	360	30	255
Chimney-protector	W. Hubbard	331,710	Dec. 1	698	173	33	1121
Chimney-top	I. Barker	329,093	Nov. 10	773	198	33	656
Chimney-top	G. Crompton	319,074	June 2	176	47	31	1080
Chimney-top	D. L. McCahan	323,945	Aug. 11	798	203	32	668
Chimney top and ventilator	G. Burkhardt	317,718	May 12	1054	274	31	723
Chimney top and ventilator	W. P. Wilson	320,606	June 23	2277	602	31	1486
Chimney-top covering	A. J. Conway	311,105	Jan. 20	1248	341	30	244
Chimney. Ventilating	S. T. Atkin	314,309	Mar. 24	1732	458	30	1123
Chimneys and smoke-stacks. Cap for	H. F. Keen	318,749	May 26	2437	653	31	996
Chimneys. Draft-regulator and soot-arrester for	F. H. Leonard	316,796	Apr. 28	2514	637	31	475
Chin-rest	J. H. Clarke	324,023	Aug. 11	915	253	32	700
China and earthenware, &c. Ornamenting	H. Doulton and J. Slater	314,002	Mar. 17	1319		30	1039
Chinaldine. Formation of methoxy and ethoxy	O. Doebner and W. Von Miller	316,248	Apr. 21	1750		31	331
Chinaldine. Formation of the hydrobase of	O. Doebner and W. Von Miller	316,249	Apr. 21	1752		31	331
Chisel. Lock-mortising	P. L. Fox	314,011	Mar. 17	1330	347	30	1041
Chisel-shoe	W. Reinhard, Sr., and C. Kalanquin	327,312	Sept. 29	2295	737	32	1559
Chloridizing gold, silver, and other ores. Apparatus for	H. H. Eames	332,705	Dec. 22	2137	563	33	1399
Chloridizing gold, silver, and other ores. Producing	E. Ostermayer and M. Dittmar	332,358	Dec. 15	1635	564	33	1304
Chlorine. Manufacture of	E. Solvay	316,195	Apr. 21	1689		31	319
Chloroform and purified acetates. Manufacture of	G. Michaelis	322,194	July 14	1070		32	203
Chocolate-cream drops and other confectionery. Marking	J. S. Hawley and H. W. Hoops	321,216	June 30	3066	813	31	1639
Chopper							
See Cornstalk-chopper. Cotton-stalk chopper.							
Cotton-chopper. Meat-chopper.							
Chopping-knife. Hand	W. Millsbaugh	319,294	June 2	436	117	31	1130
Christmas-tree holder	G. Coffin	326,007	Oct. 13	653	173	33	125
Chromates and bichromates. Manufacture of	W. J. Crystal	329,138	Oct. 27	2194		33	420
Chromic acid. Manufacture of	W. A. Rowell	322,011	July 14	825		32	158
Chuck	B. F. Chappell	313,472	Mar. 10	607	157	30	898
Chuck	A. E. Ellinwood	318,970	June 2	56	14	31	1058
Chuck	S. Moore	310,303	Jan. 6	191	52	30	87
Chuck. Brace	J. Chantrell	326,648	Oct. 20	1511	393	33	229
Chuck. Centering	C. W. Glover	312,839	Feb. 24	1883	516	30	721
Chuck. Centering	J. M. Watson	313,562	Mar. 10	716	187	30	920
Chuck. Drill	J. S. Church	310,987	Jan. 20	1076	293	30	212
Chuck. Drill	F. De Forest	322,807	July 21	1572	496	32	356
Chuck. Drill	S. P. Graham	318,466	May 26	2053	535	31	927
Chuck. Drill	I. V. Hicks	318,986	June 2	75	19	31	1062
Chuck. Drill	A. B. Landis	317,148	May 5	291	74	31	576
Chuck. Drill	W. Mason	323,178	July 28	2409	639	32	462
Chuck. Drill	W. Mason	323,179	July 28	2410	639	32	462
Chuck. Drill	W. Mason	323,181	July 28	2421	642	32	465
Chuck. Drill	E. T. McKaig	324,139	Aug. 11	989	272	32	714
Chuck. Drill	J. H. Westcott	315,634	Apr. 14	980	257	31	1-4
Chuck for gem-settings	C. I. Loveren	321,041	June 30	2838	755	31	1598
Chuck for rock-drills, &c.	J. E. Denton	319,202	June 2	323	86	31	1102
Chuck-jaw. Lathe	T. H. Costello	323,279	July 28	2546	677	32	488
Chuck. Lathe	E. B. Bailey	316,931	May 5	2	1	31	523
Chuck. Lathe	G. A. Barnes	331,603	Dec. 1	539	131	33	1092
Chuck. Lathe	J. C. Bauer	330,887	Nov. 24	1915	519	33	893
Chuck. Lathe	C. W. Crary	311,962	Feb. 10	680	186	30	482
Chuck. Lathe	C. W. Glover	312,838	Feb. 24	1882	516	30	721
Chuck. Lathe	F. L. Gregory	327,791	Oct. 6	374	37	33	66

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Chuck. Lathe	C. R. Mead	321,740	July 7	440	117	32	82
Chuck. Lathe	S. T. Newman	318,387	May 19	1954	537	31	900
Chuck. Lathe	E. Pement	322,636	July 21	1652	436	32	316
Chuck. Lathe	W. M. Preston	316,912	Apr. 28	2689	700	31	507
Chuck. Lathe	J. H. Westcott	315,685	Apr. 14	980	257	31	184
Chuck. Lathe	C. Wilson	336,005	Sept. 8	1041	264	32	1214
Chuck. Pivoting	F. Boardman	330,551	Nov. 17	1508	404	33	807
Chuck. Planer	T. H. Paul	330,261	Nov. 10	1117	297	33	727
Chuck. Rock-drill	J. E. Denton	318,420	May 19	1983	536	31	907
Chuck. Rock-drill	A. I. Parsons	315,326	Apr. 7	469	119	31	85
Chuck. Rock-drill	C. S. Westbrook	311,306	Jan. 27	1662	454	30	326
Chuck. Work-holding	J. A. Giles	323,414	Aug. 4	42	11	32	531
Churn	A. H. Allison	314,772	Mar. 31	2362	625	30	1267
Churn	F. M. Barney	319,171	June 2	287	76	31	1100
Churn	J. P. Beard	326,936	Sept. 29	2337	612	32	1472
Churn	C. Berst	315,227	Apr. 7	3-2	96	31	63
Churn	H. Brown and A. Bushnell	332,465	Dec. 15	1797	472	33	1332
Churn	H. T. Burt and J. B. Burgess	321,309	June 30	3212	856	31	1667
Churn	J. W. Cady	323,784	Aug. 4	520	147	32	680
Churn	G. S. D. Camp	314,796	Mar. 31	2397	634	30	1274
Churn	H. S. Carr	316,007	Apr. 21	1429	371	31	272
Churn	P. A. Carter	314,797	Mar. 31	2398	634	30	1274
Churn	W. Case	325,910	Sept. 8	917	231	32	1192
Churn	J. M. Champe	321,688	July 7	377	100	32	70
Churn	G. J. Clark	328,188	Oct. 13	886	230	33	168
Churn	A. Cockrell	327,241	Sept. 29	2734	710	32	1543
Churn	N. E. Coffin	322,349	July 14	1261	329	32	229
Churn	L. H. Conner	324,537	Aug. 18	1541	425	32	824
Churn	D. Conover	325,238	Sept. 1	9	4	32	1017
Churn	D. W. Curtis	321,486	July 7	105	28	32	21
Churn	G. F. Day	329,443	Nov. 3	21	6	33	508
Churn	J. Dürkoop	323,861	Aug. 4	616	173	32	639
Churn	J. Eckles and J. P. Frow	327,928	Oct. 6	548	143	33	94
Churn	A. C. Gandee	327,938	Oct. 6	561	145	33	100
Churn	R. L. Gore	325,530	Sept. 1	426	105	32	1098
Churn	C. Hauna	322,445	July 21	1395	366	32	270
Churn	J. G. Harris	322,712	July 21	1753	463	32	335
Churn	J. W. Heldreth	322,058	July 14	891	231	32	170
Churn	F. A. Honck and T. C. Carter	325,084	Aug. 25	2890	630	32	972
Churn	J. W. Keradde	332,614	Dec. 15	1992	523	33	1366
Churn	H. R. Knox	332,349	Dec. 15	1614	424	33	1301
Churn	I. Lantz	326,751	Sept. 22	2069	538	32	1416
Churn	T. Machan	328,696	Oct. 20	1570	409	33	300
Churn	F. P. Malott	280,924	Nov. 10	676	173	33	638
Churn	T. Martin	319,831	June 9	1175	310	31	1272
Churn	J. and J. C. Matson	316,988	May 5	76	90	31	536
Churn	J. McClure	316,557	Apr. 28	2170	571	31	412
Churn	J. A. McRae	317,559	May 12	850	218	31	668
Churn	J. C. Moody	322,742	July 21	1795	474	32	342
Churn	H. Mott	323,762	Nov. 3	455	114	33	580
Churn	W. I. Pace	311,359	Jan. 27	1618	443	30	318
Churn	C. W. Patton	324,879	Aug. 25	2020	553	32	920
Churn	E. O. Phillips	328,507	Oct. 20	1703	4-6	33	326
Churn	A. Robinson	313,886	Mar. 17	1162	3-2	30	1010
Churn	K. A. Rodgers	322,854	July 21	1945	514	32	370
Churn	W. J. Rogers	317,019	May 5	118	30	31	544
Churn	P. J. Shippee	315,847	Apr. 14	1209	313	31	285
Churn	W. Slar	314,369	Mar. 24	1837	489	30	1145
Churn	T. M. Smiley	311,685	Feb. 3	297	81	30	404
Churn	J. E. Smith	325,572	Sept. 1	477	119	32	1106
Churn	J. P. Spilger	314,073	Mar. 17	1405	366	30	1035
Churn	J. J. Stevens	317,875	May 12	1365	357	31	763
Churn	W. H. Stewart	313,248	Mar. 3	318	78	30	634
Churn	S. J. Sullivan	324,277	Aug. 11	1191	394	32	752
Churn	J. F. Swab	322,083	Oct. 13	756	197	33	143
Churn	J. B. Sweetland	325,637	Sept. 1	555	141	32	1121
Churn	W. H. Tambling	312,671	Feb. 24	1656	457	30	621
Churn	E. C. Taylor	333,358	Dec. 29	3036	796	33	1567
Churn	H. H. Teeter	327,020	Oct. 6	161	40	33	29
Churn	F. L. White	331,588	Dec. 1	533	130	33	1091
Churn	L. J. Wicks	332,922	Dec. 29	2498	660	33	1406
Churn	H. T. Wilson and B. B. Sanders	314,501	Mar. 24	1984	530	30	1171
Churn	G. C. Witte and R. D. Murrell	327,912	Oct. 6	527	137	33	94
Churn	E. H. Wood	325,894	Sept. 8	897	225	32	1188
Churn and butter-mold. Combined	A. Clarembaux	314,800	Mar. 31	2401	635	30	1275
Churn attachment	O. Breckenridge	321,678	July 7	358	95	32	67
Churn-cover	J. C. Autley	325,646	Sept. 8	575	146	32	1129
Churn. Cream-testing	N. S. Andrews	320,426	June 16	2032	533	31	1432
Churn-dasher	T. H. Abercrombie	324,511	Aug. 18	1511	416	32	818
Churn-dasher	J. W. Boyd	329,259	Oct. 27	2367	619	33	433
Churn-dasher	B. W. Fisk	314,322	Mar. 24	1736	462	30	1126
Churn-dasher	W. H. Gibbs	316,028	Apr. 21	1456	379	31	277
Churn-dasher	J. F. Hale	317,124	May 5	260	65	31	571
Churn-dasher	W. H. Hook	331,882	Dec. 8	944	244	33	1175
Churn-dasher	A. and B. A. Malone	321,831	July 7	586	152	32	108
Churn-dasher	W. L. Monroe	326,318	Sept. 15	1479	385	32	1303
Churn-dasher	J. B. Swain	332,620	Dec. 15	2090	549	33	1263
Churn-dasher	J. D. Wallace	316,699	Apr. 28	2379	619	31	451
Churn-dashers. Device for operating	J. P. and J. M. Lucas	329,751	Nov. 3	438	111	33	567
Churn-holding device	H. Milburn, Jr.	319,834	June 9	1178	311	31	1272
Churn-motor	D. C. and H. P. Camp	333,388	Dec. 29	3068	800	33	1572
Churn. Oscillating	H. C. Winquest	318,587	May 26	2231	596	31	957
Churn-power	J. A. Lawrence	312,278	Feb. 17	1131	310	30	574

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Churn-power.....	C. W. Patton.....	314,875	Mar. 31	2498	663	30	1293
Churn-power and butter-worker combined	J. Sweeney.....	328,906	Oct. 20	1836	479	33	350
Churn. Rotary.....	L. W. Murch.....	323,878	Aug. 4	637	180	32	643
Churn. Swinging.....	W. J. Temple.....	329,689	Nov. 3	356	91	33	572
Churn-top fastener.....	J. H. Elliott.....	325,164	Aug. 25	2385	657	32	969
Churn-ventilator.....	J. G. Pritchard.....	333,677	Dec. 15	2066	548	33	1382
Churning device.....	F. L. Foushee.....	331,487	Dec. 1	327	86	33	1056
Churning device.....	S. B. and H. Wood and T. W. Wiley	316,426	Apr. 21	1996	524	31	373
Chute. Ash.....	H. Pasley.....	311,674	Feb. 3	281	77, 78	30	401
Chute. Coal.....	J. Hestherington.....	310,278	Jan. 6	155	43	30	31
Chute. Coal.....	M. D. Jones.....	312,207	Feb. 10	1023	280	30	546
Chute. Coal.....	J. McEachern.....	324,865	Aug. 25	2003	550	32	918
Chute, gate, coal-bin, &c. Automatic screen	B. Kepner.....	325,345	Sept. 1	149	41	32	1043
Chute. Portable.....	A. A. Hinds and L. E. Mace	312,468	Feb. 17	1320	32	30	621
Chute. Reversible coal.....	A. Chadwick.....	313,471	Mar. 10	606	157	30	898
Cider and wine press.....	D. G. Higginson and C. S. De Baun	315,784	Apr. 14	1124	295	31	211
Cider-mill.....	M. B. Kaylor.....	323,041	July 28	2227	569	32	427
Cider mill and press.....	B. F. Criley.....	317,313	May 5	521	133	31	619
Cider or wine press.....	M. P. Schenck.....	325,976	Sept. 8	1003	255	32	1207
Cider-press.....	S. Ballard.....	311,713	Feb. 3	328	91	30	411
Cider-press.....	P. R. Cross.....	315,010	Apr. 7	34	7	31	8
Cider-press.....	P. R. Cross.....	330,470	Nov. 17	1414	377	33	790
Cider-press.....	J. Gorgas and G. E. Mohler	313,322	Mar. 3	410	102	30	851
Cider-press.....	J. and C. Gype.....	310,272	Jan. 6	149	41	30	30
Cider-press.....	N. Lee.....	325,252	Sept. 1	26	8	32	1020
Cider-press.....	E. W. Lehman.....	321,039	June 30	2835	755	31	1597
Cider-purifier.....	E. Ripley.....	317,855	May 12	1941	328	31	758
Cigar and cigarette case.....	G. L. Preston.....	312,656	Feb. 24	1633	450	30	678
Cigar-box.....	D. E. Powers.....	324,589	Aug. 18	1604	442	32	837
Cigar-box.....	D. E. Powers.....	325,627	Sept. 1	544	138	33	1118
Cigar-box.....	F. C. Smaltig.....	328,617	Oct. 20	1465	381	33	281
Cigar-boxes. Press-board for.....	C. Lorenz.....	331,510	Dec. 1	360	97	33	1062
Cigar boxes. Spring-follower for.....	M. Michaelis.....	311,597	Feb. 3	188	53	30	384
Cigar-boxes. Tip-cutting attachment for.....	I. C. Istel.....	322,105	July 14	956	248	32	182
Cigar-boxing press.....	A. Rein.....	319,748	June 9	1049	277	31	1250
Cigar-bunch mold.....	C. H. Haugk.....	313,330	Mar. 3	419	105	30	853
Cigar-bunching machine.....	N. H. Borgfeldt and A. C. Schutz	331,676	Dec. 1	651	160	33	1112
Cigar-bunching machine.....	C. H. Evers.....	328,203	Oct. 13	902	214	33	172
Cigar-bunching machine.....	A. Gordon.....	323,774	Oct. 20	1662	433	33	318
Cigar-bunching machine.....	C. H. Haugk.....	315,279	Apr. 7	414	103	31	75
Cigar-bunching machine.....	J. A. McConnell.....	330,604	Nov. 17	1571	421	33	690
Cigar-bunching machine.....	G. Moebis. (Reissue).....	10,629	July 28	2708	721	32	516
Cigar-bunching machine.....	F. and E. H. Thompson	318,669	May 26	2331	623	31	977
Cigar-bunching tool.....	N. Doetsch.....	322,356	July 14	1271	339	32	941
Cigar-bunching tool.....	N. Doetsch.....	322,357	July 14	1271	339	32	941
Cigar-butt cutter.....	C. H. Haugk.....	313,329	Mar. 3	417	104	30	853
Cigar-cabinet.....	J. F. Hickie.....	310,942	Jan. 20	1013	274	30	200
Cigar-case.....	H. W. Pitt.....	330,733	Nov. 17	1745	460	33	854
Cigar-case and match-holder. Combined	G. W. Conover.....	321,485	July 7	104	28	32	21
Cigar-cutter.....	R. M. Collard.....	319,456	June 9	657	177	31	1179
Cigar-cutter.....	W. M. Duckor.....	331,384	Dec. 1	179	45	33	1029
Cigar-cutter.....	W. H. Lilly.....	318,995	June 2	82	81	31	1063
Cigar-cutter.....	W. H. Myers.....	320,024	June 16	1527	404	31	1343
Cigar-cutter and match-box. Combined	H. B. Eggert.....	313,660	Mar. 10	848	220	30	945
Cigar cutter and perforator. Combined	A. Angell.....	331,366	Dec. 1	156	40	33	1026
Cigar-holder.....	G. Corey.....	328,009	Oct. 13	654	172	33	125
Cigar-holder.....	J. L. C. Cronyn.....	319,826	June 9	1948	329	31	1284
Cigar-holder.....	G. W. Keith and G. C. Sutherland	311,497	Feb. 3	50	15	30	358
Cigar lighter and cutter.....	A. Peschel.....	313,654	Feb. 24	1630	449	30	677
Cigar-machine.....	G. W. Tanner.....	321,259	June 30	3116	829	31	1648
Cigar-machine.....	G. W. Tanner.....	324,185	Aug. 11	1056	289	32	726
Cigar-machine.....	E. A. Tinchant.....	319,349	June 2	503	137	31	1144
Cigar-machine.....	M. A. Winget.....	332,174	Dec. 8	1379	356	33	1252
Cigar-mold.....	F. C. Miller.....	329,196	Oct. 27	2277	589	33	435
Cigar-molding machine.....	W. J. Fox.....	321,592	July 7	250	66, 67	32	48
Cigar mouth-piece.....	W. C. Anderson.....	319,165	June 2	282	74	31	1099
Cigar-perforator.....	L. C. Michelsena.....	314,043	Mar. 17	1370	357	30	1049
Cigar-perforator.....	F. Tuecke.....	317,247	May 5	434	108	31	602
Cigar-perforating machine.....	A. Heed and G. D. Hall.....	324,936	Aug. 25	2093	573	32	935
Cigar-support.....	C. C. Knowlton.....	320,938	June 30	2702	717	31	1572
Cigar-tip cutter.....	C. S. Alden.....	325,896	Sept. 8	898	226	32	1188
Cigar-tip cutter.....	W. H. Lilly.....	330,597	Nov. 17	1560	418	33	818
Cigar-wrapper cutter.....	J. R. Williams.....	320,199	June 16	1674	445	31	1368
Cigar-wrapper-cutting machine.....	W. Rodger.....	319,424	June 2	598	162	31	1162
Cigar-wrappers. Machine for cutting	O. Hammerstein.....	315,408	Apr. 7	584	150	31	105
Cigars and cigarettes. Machine for cutting wrap- pers or binders for	J. R. Williams.....	322,029	July 14	852	222	32	163
Cigars and cigarettes. Machine for cutting wrap- pers or binders for	J. R. Williams.....	322,030	July 14	853	222	32	163
Cigars. Manufacturing.....	N. Doetsch.....	325,062	Aug. 25	2202	621	32	966
Cigars. Temporary wrapper for.....	C. H. Haugk.....	320,248	June 16	1741	462	31	1381
Cigarette-case.....	W. H. Butler.....	311,641	Feb. 3	241	68	30	394
Cigarette-case.....	W. H. Butler.....	311,642	Feb. 3	242	68	30	394
Cigarette-machine.....	A. Ewing.....	322,362	July 14	1277	333	32	242

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Cigarette-machine.....	F. J. Ludington.....	320,370	June 16	1946	512 513 514 515	31	1415
Cigarette-machine.....	J. W. McCoy.....	324,035	Aug. 11	845	535 536	32	688
Cigarette mouth-pieces. Machine for making.....	J. C. Davis.....	324,923	Aug. 25	2073	567 568	32	881
Cigarette-wrappers, &c. Manufacture of.....	J. De Susini.....	328,300	Oct. 13	1021		33	193
Cipher-machine. Combination.....	D. R. Smith.....	312,685	Feb. 24	1646	454	30	680
Circuit-breaker.....	E. Weston.....	320,028	June 16	1451	321	31	1322
Circuit-breaker and closer. Automatic.....	M. J. Myers.....	332,430	Dec. 15	1718	450	33	1318
Circuit-breaker. Sparkless.....	L. H. Spellier.....	322,494	July 21	1470	386	32	284
Circuit-changer and alarm. Automatic.....	W. B. Vansize and T. D. Lockwood.....	313,241	Mar. 10	1091	224	30	928
Circuit-closer.....	J. E. Root.....	320,504	June 23	2141	565	31	1400
Circuit-closer.....	A. T. Smith.....	325,124	Aug. 25	2339	644	32	920
Circuit-closer. Automatic.....	P. C. F. McCambridge.....	330,037	Nov. 10	831	213	33	608
Circuit-controller.....	W. A. Leggo.....	329,398	Oct. 27	2523	665	33	470
Circuit-controller.....	W. A. Leggo.....	329,399	Oct. 27	2523	666	33	491
Circuit-controller.....	L. H. McCullough.....	331,986	Dec. 8	1097	225	33	1204
Circulating-boiler.....	W. Schimpf.....	325,977	Sept. 8	1004	236	32	1208
Cistern and tank cleaner.....	R. B. Scudder.....	320,160	June 16	1653	439	31	1364
Clamp:							
See Bed-clothes clamp. Gripping-clamp.							
Belt-clamp. Halter-clamp.							
Bench-clamp. Handle-clamp.							
Book and music clamp. Harness-loop clamp.							
Brake-shoe clamp. Hitching-strap clamp.							
Button-hole clamp. Molding-clamp.							
Cabinet-maker's clamp. Printer's gage-clamp.							
Car-brake clamp. Railway-rail clamp.							
Dumb-walter clamp. Rope-clamp.							
Eaves-trough clamp. Saw-clamp.							
Felly-clamp. Sewing-machine clamp.							
Fishing-reel clamp. Skate-clamp.							
Floor-clamp. Soldering-clamp.							
Floor-board clamp. Trough-clamp.							
Flooring-clamp. Well-pipe-closing clamp.							
Foundryman's clamp. Wire-clamp.							
Yoke-clamp.							
Clamp.....	F. J. Bancroft.....	324,903	Aug. 25	1917	527	32	907
Clamp.....	W. H. Golding.....	310,195	Jan. 6	47	13	30	11
Clamp.....	C. R. Smith and J. B. Adams.....	319,521	June 9	749	201	31	1195
Clamp for confining the ends of braid, ropes, &c.....	E. W. Ten Eyck.....	316,310	Apr. 21	1828	481	31	345
Clamp for roof-scaffolds, &c.....	A. T. Barlow.....	330,546	Nov. 17	1503	402	33	806
Clamps in sheets of metal. Machine for forming.....	G. Hayes.....	326,557	Sept. 22	1772	464	32	1365
Clamping device.....	J. F. Packer.....	313,010	Feb. 24	2123	578	30	764
Clamping device. Adjustable.....	G. W. Zeigler.....	312,419	Feb. 17	1312	302	30	609
Clamping device. Self-adjusting.....	G. W. Zeigler.....	318,338	May 19	1889	508 509	31	887
Clamping-machine.....	E. K. Patten.....	323,955	Aug. 11	741	207	32	670
Clapboard-gage.....	J. W. Danly.....	324,011	Aug. 11	819	227	32	683
Clapboards. Adjustable gage for supporting.....	H. Brand.....	332,323	Dec. 15	1521	415	33	1225
Clarifying and evaporating pan.....	C. M. Schwarz.....	833,166	Dec. 29	2771	726	33	1519
Clasp:							
See Album-clasp. Pencil-clasp.							
Belt-clasp. Shoe-clasp.							
Book-clasp. Spectacle-holder clasp.							
Bracelet-clasp. Spring-clasp.							
Corset-clasp. Suspender-clasp.							
Garment-clasp. Suspender-strap clasp.							
Garment-supporter clasp.							
Clasp.....	J. G. Brothwell.....	324,294	Aug. 11	1211	330	32	756
Clasp.....	G. A. Colton.....	314,366	Mar. 24	1798	478	30	1137
Clasp.....	C. H. Hardy.....	311,126	Jan. 20	1275	351	30	240
Clasp.....	C. C. Shelby.....	322,985	July 28	2146	570	32	414
Clasp.....	J. J. Unbehend.....	326,351	Sept. 15	1523	306	32	1311
Clasp.....	J. J. Unbehend.....	326,350	Sept. 15	1531	307	32	1312
Clasp.....	J. J. Unbehend.....	326,357	Sept. 15	1532	308	33	1319
Clasp.....	C. F. and W. J. Walters.....	322,026	July 14	850	221	32	102
Clasp for albums and other books.....	A. J. Megee.....	311,448	Jan. 27	1721	408	30	337
Clasp for garments. Spring-locking.....	C. J. S. Hayden.....	317,645	May 12	962	248	31	706
Clasp for purses, &c.....	E. P. Hinkel.....	317,358	May 5	821	149	31	630
Clasp for ribbon-rolls.....	E. W. Raymond.....	329,212	Oct. 27	2204	590	33	440
Clasp for shoes or other articles.....	T. P. West.....	320,104	June 16	1754	411	31	1347
Clasp for supporting garments.....	G. W. Luce.....	318,919	May 26	2067	707	31	1036
Clasp for suspenders and other articles.....	J. T. Budd.....	329,434	Nov. 3	11	3	33	507
Clasp for wearing apparel.....	A. Winterburn.....	315,773	Apr. 14	1240	323	31	231
Clasp or fastening.....	G. Frost.....	310,504	Jan. 6	433	119	30	84
Clasp or holding device for wearing-apparel.....	W. D. C. Pattysen.....	315,959	Apr. 14	1267	354	31	253
Clasp plate.....	J. J. Unbehend.....	326,353	Sept. 15	1529	307	32	1312
Clay and brick carrier.....	J. W. and G. H. Aregood.....	323,621	Aug. 4	319	91, 92	32	581
Clay and separating the stones therefrom. Device for disintegrating.....	J. A. Boyd.....	322,756	Oct. 20	1643	428	33	314
Clay-crusher.....	A. L. Brewer and H. Heesen.....	315,897	Apr. 14	1279	333	31	232
Clay-crusher.....	H. Heesen.....	313,332	Mar. 3	420	105	30	854
Clay-crushing machine.....	F. Aleip and C. T. Drake.....	320,905	June 30	2659	707	31	1565
Clay-crushing machine.....	T. D. McKinney and W. A. Soper.....	311,081	Jan. 20	1214	332	30	239
Clay-crushing machine.....	W. W. Wallace. (Reissue).....	10,584	Apr. 21	2006	527	31	375
Clay cutter and pulverizer.....	W. N. Graves.....	330,691	Nov. 17	1684	454	33	844
Clay-disintegrator.....	C. and A. Potts.....	322,393	July 14	1721	344	32	251

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Clay. Machine for preparing.	J. S. Smith	312,667	Feb. 24	1650	435	30	680
Clay. Machine for treating.	J. S. Smith	312,666	Feb. 24	1649	435	30	680
Clay reducer and disintegrator.	W. Burkman	312,668	Feb. 24	1836	504	30	713
Clay-reducing machine.	W. Burkman	323,908	Aug. 11	682	191	32	659
Cleaner:							
See Belt-cleaner.	Grain-cleaner.						
Boiler-cleaner.	Lamp-chimney cleaner.						
Boiler-flue cleaner.	Nail and ear cleaner.						
Boiler-tube cleaner.	Peanut-cleaner.						
Boot and shoe cleaner.	Pipe-line cleaner.						
Carpet-cleaner.	Seed-cleaner.						
Cistern and tank cleaner.	Sink-cleaner.						
Colter-cleaner.	Slate-cleaner.						
Cotton-cleaner.	Stable-cleaner.						
Fred-water cleaner.	Steam-boiler cleaner.						
Flue-cleaner.	Steam-boiler-flue cleaner.						
Flume-rack cleaner.	Tube-cleaner.						
	Window-cleaner.						
Cleaning-fluid.	C. T. Mutchler	331,810	Dec. 8	832		33	1154
Cleaning, hulling, and grinding mill.	J. Breitenmoser	328,105	Oct. 13	781	204	33	148
Clevis.	J. R. Davis	331,284	Dec. 1	42	9	33	1007
Clevis.	A. D. Forbes	314,443	Mar. 24	1896	507	30	1157
Clevis and link. Plow.	L. Gibbs	326,210	Sept. 15	1327	344	32	1274
Clevis. Plow.	S. S. Anghe	311,405	Jan. 27	1670	458	30	329
Clevis. Plow.	O. A. Essig	319,966	June 16	1368	359	31	1313
Clevis. Plow.	A. D. Forbes	332,145	Dec. 8	1341	347	33	1245
Clevis. Plow.	W. V. Snyder	325,575	Sept. 1	479	119	32	1107
Clevis. Swiveled.	W. H. McCumber	318,772	May 26	2468	661	31	1001
Clinometer.	J. F. Borchardt	326,309	Sept. 15	1566	407	32	1319
Clinometer.	J. Kindleberger	313,872	Mar. 17	1144	298	30	1006
Clip:							
See Axle-clip.	Spring-head clip.						
Locomotive-spring clip.	Ticket-clip.						
Paper-clip.	Vehicle-spring clip.						
Spring-clip.	Velocipede-spring clip.						
	Wagon-clip.						
Clip for rope-haulage.	S. Morgan	318,492	May 26	2085	563	31	933
Clip for the attachment of springs.	F. H. Plummer	318,797	May 26	2508	669	31	1007
Clip-yoke. Machine for making.	W. S. Ward	312,534	Feb. 17	1482	405	30	638
Clipper. Hair.	W. H. Underwood	324,435	Aug. 18	1408	784	32	800
Clipping horses, &c. Machine for.	J. C. Wilson, Sr.	322,668	July 21	1692	440	32	324
Clipping machine. Hair.	C. Carleton	321,685	July 7	372	99	31	70
Clipping machine. Hair.	L. S. Lee	331,508	Dec. 1	357	96	33	1062
Clipping machine. Hair.	W. W. Myers	324,781	Aug. 18	1878	516	32	888
Clipping machine. Hair.	J. K. Priest	317,671	May 12	996	259	31	713
Clipping machine. Hair.	G. F. Sack	333,340	Dec. 29	3011	788	33	1563
Clipping machine. Hair.	C. K. Whittier and J. H. Donlon	330,535	Nov. 17	1490	398	33	804
Cloak. Circular.	T. D. Barter	331,179	Nov. 24	2330	631	33	970
Cloak. Goossamer.	P. C. Goltz	313,316	Mar. 3	405	100	30	850
Cloak. Lady's circular.	L. Graner	314,665	Mar. 31	2199	584	30	1236
Clock.	P. C. Bensel	321,674	July 7	353	93	32	66
Clock.	H. L. Phillips	329,078	Oct. 27	2114	547	33	405
Clock and lamp-regulating mechanism. Combined alarm.	J. M. Crawford	313,300	Mar. 3	384	94, 95	30	846
Clock and lamp-regulating mechanism. Combined alarm.	J. M. Crawford	317,312	May 5	519	132	31	618
Clock and watch dial. Manufacturing.	F. Schmalz	313,945	Mar. 3	312		30	834
Clock. Alarm.	T. L. Bissell	321,415	July 7	3	1	32	3
Clock. Alarm.	S. S. Colt	313,650	Mar. 10	845	219	30	944
Clock. Alarm.	W. D. Davies	315,603	Apr. 14	873	229	31	162
Clock. Alarm.	A. O. Jennings	329,455	Nov. 3	32	10	33	511
Clock. Alarm.	W. D. Smith	311,540	Feb. 3	110	33	30	370
Clock-bell.	H. W. Barnes	312,792	Feb. 24	1817	499	30	709
Clock-bell hammer.	C. H. Norton	313,016	Feb. 24	2117	577	30	763
Clock. Calendar.	D. J. Gale	316,254	Apr. 21	1756	461	31	332
Clock. Calendar.	T. Kruczkowski	319,588	June 9	847	225	31	1213
Clock-case.	H. Focken	319,085	June 2	189	50	31	1083
Clock-case.	A. M. Lane	321,613	July 7	280	74	32	54
Clock-case.	J. L. Rutherford and A. F. Wood	318,435	May 19	2016	542	31	910
Clock-case.	A. D. Tyrrell	321,402	June 30	3304	882	31	1084
Clock-cases. Japanning wooden.	E. Ingraham	325,543	Sept. 1	441	110	32	1100
Clock-cases, statuary, vases, &c., from plastic materials. Manufacture of.	R. P. Coughlin	311,875	Feb. 10	544	149	30	458
Clock. Electric.	F. Bauman	320,997	June 30	2783	739	31	1587
Clock. Electric.	A. S. Crane	311,234	Jan. 27	1436	391	30	284
Clock. Electric.	F. R. Field	324,824	Aug. 25	1943	534	33	907
Clock. Electric.	F. R. Field	322,769	Oct. 20	1635	432	33	317
Clock. Electric alarm.	V. Gallet	318,612	May 26	2256	603	31	962
Clock. Electric alarm.	C. Korfhage	322,110	July 14	961	250	32	183
Clock. Electric pendulum.	F. and O. Haenichen	316,360	Apr. 21	1893	501	31	356
Clock-escapement.	C. M. Rhodes	328,142	Oct. 13	822	215	33	156
Clock for machinery. Speed.	W. H. Lord	328,592	Oct. 20	1421	370	33	274
Clock-frame.	R. W. Lucius	332,265	Dec. 15	1505	393	33	1281
Clock. Illuminated.	J. M. Crawford	317,096	May 5	218	55	31	563
Clock. Mechanical and electrical alarm.	I. S. Moser and F. Magee	317,937	May 12	1218	322	31	754
Clock-movement.	F. A. Lano	317,380	May 5	610	156	31	635
Clock movement. Electric.	J. E. Carey	316,112	Apr. 21	1575	410	31	299
Clock-movement frame.	W. C. Walter	317,898	May 12	1300	348	31	770
Clock movement. Secondary electric.	C. H. Pond	327,897	Oct. 6	502	131	3	90

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Clock-pallets. Machine for finishing	E. Horton	313,203	Feb. 10	1018	{ 277 278 }	30	544
Clock-pendulum escapement	W. Hart	336,292	Sept. 15	1445	376	32	1226
Clock-pendulum protector	L. Erikson	333,190	D. c. 29	2710	710	33	1500
Clock-pendulums. Electric synchronizing device for	H. L. Bailey	332,087	Dec. 22	2510	064	33	1468
Clock-pinion leaves. Machine for fastening	B. B. Lewis	318,762	May 28	2455	638	31	999
Clock. Pneumatic	A. Hahl and O. Mergenthaler	314,014	Mar. 17	1333	348	30	1042
Clock. Primary electric	W. L. Stevens and E. J. Wescott	330,938	Nov. 24	2012	{ 543 544 }	33	911
Clock. Programme	W. Akin	331,694	Dec. 22	2119	540	33	1395
Clock-regulator	G. L. Goodrich	334,891	Dec. 22	2379	080	33	1443
Clock. Secondary electric	C. A. Hussey	319,259	June 2	394	{ 101 105 }	31	1122
Clock. Secondary electric	W. F. Weisgerber	314,634	Mar. 31	2161	574	30	1229
Clock-striking	F. A. Lane	313,344	Mar. 3	134	109	30	856
Clock-setting device. Electric	J. F. Kettell	331,132	Dec. 22	2727	710	33	1512
Clock-setting device. Electric	J. F. Kettell	331,133	Dec. 22	2729	717	33	1512
Clock-striking mechanism	C. Hahlweg	321,577	Aug. 4	232	74	32	569
Clock-striking mechanism	A. G. Horde	330,896	Nov. 24	1253	529	33	900
Clock-striking mechanism	H. L. Naramore	319,925	June 9	1299	343	31	1294
Clock-striking mechanism	H. L. Naramore	325,228	Aug. 25	2478	681	34	1006
Clock-striking mechanism	F. Witherspoon	320,825	Sept. 22	2178	568	32	1436
Clock-striking train	A. G. Horde	316,304	Apr. 21	1900	503	31	357
Clock-synchronizer	A. Ramel and W. W. Doan	330,923	Nov. 24	1989	538	33	907
Clock-synchronizing apparatus	J. A. Lund	312,482	Feb. 17	1403	388	30	625
Clock system. Electric pneumatic	C. A. Mayrhofer	310,530	Jan. 6	465	{ 127 128 }	30	90
Clock. Watchman's	R. B. Carr	319,783	June 9	1096	291	31	1258
Clock-winding mechanism	L. F. Portebois	321,526	July 7	167	45	32	33
Clock-works. Manufacture of	C. Stahlberg	326,692	Sept. 22	1837	492	32	1376
Clocks. Adjusting beat of	H. P. Prunm	325,111	Aug. 25	2330	639	32	977
Clocks. Circuit-closer for primary electric	W. F. Weisgerber	319,534	June 9	766	905	31	1199
Clocks. Contact-maker for electric	L. H. Speller	330,632	Nov. 17	1604	429	33	887
Clocks in series. Electrical attachment for winding	C. H. Pond	327,898	Oct. 6	504	131	33	90
Cloth crusher and pulverizer	T. F. Emaus	326,489	Sept. 15	1682	439	32	1340
Closet:							
See Water-closet.							
Closet. Knockdown	G. Schulz	319,137	June 2	251	65	31	1093
Closet-tubes. Apparatus for warming and disinfecting	L. Gühring and W. Köhrer	327,945	Oct. 6	567	147	33	102
Cloth-cutting apparatus	R. O. Monday	324,404	Aug. 18	1365	371	32	793
Cloth. Gig for napping	J. Shearer	322,083	July 28	2145	569	32	414
Cloth inspecting and trimming machine	J. H. Wilson	325,591	Sept. 1	485	121	32	1108
Cloth, leather, &c. Machine for cutting	C. Gootler	320,650	June 23	2333	616	31	1496
Cloth. Ornamentation of	C. J. Cox	317,310	May 5	517	132	31	618
Cloth-pressing machine	R. Patrick, Jr.	317,185	May 5	346	57, 88	31	586
Cloth-pressing machine	J. Shearer	320,006	June 16	1424	374	31	1223
Cloth-pressing machine	J. Shearer	325,122	Aug. 25	2335	643	32	920
Cloth-rack	W. W. Palmer	325,522	Aug. 4	183	53	32	556
Cloth-shearing machinery	D. C. Sumner	324,428	Aug. 18	1400	{ 381 382 }	32	798
Clothes and hat rack. Combined	J. S. Lash	330,497	Nov. 17	1442	385	33	796
Clothes-bar	W. D. Robinson	330,926	Nov. 24	1996	530	33	908
Clothes-cleansing machine	J. M. Chamberlain	332,528	Dec. 15	1957	{ 512 513 }	33	1359
Clothes-drier	A. Blanchard	326,836	Sept. 22	2190	571	32	1438
Clothes-drier	C. F. Buehler	311,804	Dec. 8	920	237	33	1170
Clothes-drier	B. F. Buxton	320,620	Nov. 3	269	69	33	556
Clothes-drier	J. Dennis	314,231	Mar. 24	1613	427	30	1102
Clothes-drier	D. A. Dickson	324,987	Aug. 25	2169	593	32	948
Clothes-drier	L. E. Hastings	328,484	Oct. 20	1274	331	31	247
Clothes-drier	A. Iske	326,742	Sept. 22	2059	535	32	1414
Clothes-drier	L. A. Johnson	330,711	Nov. 17	1707	461	33	848
Clothes-drier	P. Lockie	328,892	Oct. 20	1763	460	33	337
Clothes-drier	F. G. Manley	328,835	Oct. 20	1766	461	33	337
Clothes-drier	J. D. Martin and T. Head	316,987	May 5	75	20	31	536
Clothes-drier	J. H. Pearsall	328,968	Oct. 27	1942	{ 506 507 }	33	376
Clothes-drier	J. H. Press	313,766	Mar. 10	992	256	30	970
Clothes-drier	D. P. Sharp	330,159	Nov. 10	995	259	33	702
Clothes-drier	Z. Stephenson	330,749	Nov. 17	1764	475	33	858
Clothes-horse	A. W. Burnham	328,183	Oct. 13	880	298	33	166
Clothes-line	U. Savoye, Jr., and W. R. Searing	326,220	Sept. 15	1388	361	32	1285
Clothes-line	J. S. Wailes	330,646	Nov. 17	1621	436	33	831
Clothes-line fastener	J. H. Glashan	328,023	Oct. 13	671	176	33	128
Clothes-line fastener	G. C. H. Hasakarl	317,340	May 5	574	147	31	622
Clothes-line fastener	T. McCoy	315,312	Apr. 7	454	115	31	82
Clothes-line fastener	A. H. Squires	328,824	Oct. 20	1725	449	33	331
Clothes-line frame	C. L. Williams	317,228	May 5	449	112	31	605
Clothes-line holder	L. C. Guhl	318,182	May 19	1676	449	31	849
Clothes-line support	W. C. Young	325,470	Sept. 1	339	82	32	1080
Clothes-line supporter. Folding	W. C. and C. H. Caldwell	329,623	Sept. 22	1869	489	32	1381
Clothes-pin	L. B. Prindle	329,457	Nov. 3	83	23	33	521
Clothes-pins. Machine for making	J. D. Senate	322,453	Aug. 4	88	26	32	538
Clothes-pouder	J. Just	314,524	Mar. 24	2025	540	30	1178
Clothes-pouder	M. Remington	321,914	July 7	690	140	32	125
Clothes-pouder	R. M. Rimer	312,925	Mar. 17	1267	330	30	1029
Clothes-pouder	F. T. Roots	332,828	Dec. 22	2298	606	33	1429
Clothes-pouder	P. Selby	328,424	Oct. 13	1215	314	33	230
Clothes-prop	A. La Jennesse	321,044	July 28	2230	590	32	428
Clothes-rack	G. A. Spross and R. Meeker	317,226	May 5	419	105	31	600
Clothes-rack. Revolving	C. F. Buehler	320,046	June 16	1475	389	31	1333
Clothes-rubbing pad	W. S. F. Dillon	329,826	June 23	2587	685	31	1545
Clothes-tongs	D. Worthington	327,049	Sept. 22	2479	648	32	1497

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &	Vol.	Page.
Clothes-washer	G. W. Crosby	331,037	Nov. 24	2128	577	33	934
Clothes-washer	J. D. Gardner and J. N. Brumbelow	336,860	Sept. 22	2228	582	32	1445
Clothes-washer	T. F. Wood	323,768	Aug. 4	507	142	32	618
Clothes-wringer	A. M. Bailey	318,850	May 26	2578	686	31	1019
Clothes-wringer	W. Bulkeley	333,107	Dec. 29	2690	705	33	1505
Clothes-wringer	H. C. Hopkins, Jr.	328,945	Oct. 27	1904	498	33	369
Clothes-wringer	J. L. Kirby	329,051	Oct. 27	2072	538	33	398
Clothes-wringer	J. L. Kirby	330,924	Nov. 24	2071	561	33	923
Clothes-wringer	I. R. Laux	336,995	Sept. 29	2410	629 630	32	1486
Clothes-wringer	C. K. Stinson	327,616	Oct. 6	152	36	33	92
Clothing-stiffener. Adjustable	C. F. Marsh	318,372	May 19	1794	480	31	870
Clover-huller	A. Miller	331,646	Dec. 1	606	150	33	1104
Clover-huller	A. Miller and J. N. Kaller	327,812	Oct. 6	402	105	33	71
Clover-huller	J. M. Thompson	317,595	May 12	897	920	31	694
Clover-huller	D. Whiting	316,210	Apr. 21	1898	446	31	392
Clover-huller	E. L. Williams	323,475	Aug. 4	117	34	32	543
Clover-huller concave	F. Strobel	318,823	May 26	2545	678	31	1013
Clover huller cylinder	F. Strobel	316,308	Apr. 21	1826	480	31	344
Clover-hullers. Rubber for	J. N. Kallor	310,521	Jan. 6	453	125	30	88
Clover-hullers. Rubber for	J. N. Kallor	310,522	Jan. 6	455	125	30	88
Clover-hullers. Rubber for	J. N. Kallor	310,523	Jan. 6	455	125	30	88
Club. Indian	C. H. Sparks	325,987	Sept. 8	1014	229	32	1210
Clutch	E. Kay	318,259	May 19	1775	474	31	867
Clutch	E. Long	328,126	Oct. 13	806	210	33	153
Clutch	M. L. Metzger and A. Cooper	331,524	Dec. 1	379	102	33	1067
Clutch	A. J. Moyer	330,414	Nov. 17	1336	356	33	775
Clutch	H. E. Pridmore	324,786	Aug. 18	1-83	518	32	889
Clutch	M. Stolterfoht	321,656	July 7	327	87	32	62
Clutch and brake. Combined	A. N. Stimmerly	312,911	Feb. 24	1969	538	30	736
Clutch and coupling. Friction	W. T. McRae	332,031	Dec. 22	2427	642	33	1454
Clutch-coupling	M. Haas	310,996	Jan. 20	1090	298	30	216
Clutch. Fly-wheel	W. L. Fish	319,968	June 18	1370	360	31	1314
Clutch for step-by-step movements. Electro-magnetic	W. A. Rogers	310,913	Jan. 20	964	262	30	193
Clutch. Friction	S. Barron	313,644	Mar. 10	821	215	30	939
Clutch. Friction	A. B. Bean	321,941	July 14	735	192 193	32	142
Clutch. Friction	A. B. Bean	326,091	Sept. 15	1159	296	32	1244
Clutch. Friction	F. M. Blake	312,074	Feb. 10	830	226	30	511
Clutch. Friction	G. W. Bonds	313,284	Mar. 3	357	88	30	841
Clutch. Friction	M. P. Boss	325,388	Sept. 1	228	58	32	1058
Clutch. Friction	J. H. Cooper	317,306	May 5	510	130	31	616
Clutch. Friction	C. M. Huntington	318,905	May 26	2650	702	31	1033
Clutch. Friction	E. Jordan	329,393	Oct. 27	2572	663	33	489
Clutch. Friction	C. Kaestner	328,786	Oct. 20	1677	437	33	321
Clutch. Friction	W. R. McDonald	333,143	Dec. 29	2740	719	33	1514
Clutch. Friction	S. Mead	323,189	July 28	2431	644	32	466
Clutch. Friction	A. D. Simpson	320,007	June 16	1426	375	31	1323
Clutch. Friction	A. L. Stanford	312,400	Feb. 17	1290	356	30	604
Clutch. Friction	W. B. Tatrow	329,866	Nov. 3	597	153	33	616
Clutch. Friction	J. Thompson	316,200	Apr. 21	1686	443	31	320
Clutch. Friction	T. H. Thompson	319,867	June 9	1219	382	31	1279
Clutch. Friction	E. P. and H. C. Walter	329,944	Oct. 27	2345	607	33	448
Clutch-operating mechanism	J. H. Wright	312,050	Feb. 10	808	220 221	30	506
Clutch or loose-pulley device	J. W. Corey	322,423	July 21	1364	356	32	985
Clutching device	C. H. Paxson and H. Croft, Jr.	325,585	Sept. 1	486	117	32	1105
Clutching device	C. P. White	317,056	May 5	163	41	31	552
Coal and ore bins. Discharge apparatus for	H. G. H. Reed	311,365	Jan. 27	1695	444 445 446	30	319
Coal and ore shift	T. McCarthy, G. E. Tener, and J. McAfee	318,488	May 26	2080	581 582 583	31	932
Coal and other materials. Machine for agglomerating	G. J. P. Couffinhal	323,856	Aug. 4	605	170 171	32	637
Coal and rock drill	J. F. Loftus	328,495	Oct. 20	1285	334	33	950
Coal-bucket	J. A. Steinbach	324,427	Aug. 18	1399	381	32	798
Coal-conveyer. Hand	W. S. Tomkins	319,865	June 9	1216	391	31	1278
Coal-drilling machine	A. J. Cooper	313,577	Mar. 10	733	193	30	923
Coal-drilling machine	J. M. Grooms	313,204	Mar. 3	242	61	30	822
Coal-drilling machine	J. T. Johnson and T. Thompson	321,034	June 30	2831	753	31	1596
Coal-elevator	W. Lawton	326,129	Sept. 15	1206	308 309	32	1252
Coal-feeding device	W. B. Chisholm and J. Walker	316,746	Apr. 28	2450	638	31	463
Coal-handling apparatus. Locking device for	W. S. Bogle	333,278	Dec. 29	2928	766	33	1548
Coal. Imitation	J. Mayer	332,728	Dec. 22	2163		33	1403
Coal, &c. Machine for washing	W. Ramsay	323,075	July 28	2271	601	32	436
Coal or ore bucket or carrier	A. N. Stimmerly	311,789	Feb. 3	425	115	30	428
Coal-screen	W. P. C. Allen	323,772	Aug. 4	512	143	32	618
Coal-screen and dust-receiver combined	H. Gridley and T. Johnson	311,485	Feb. 3	33	10	30	355
Coal-scuttle	J. Duncan	325,595	Sept. 1	504	125	32	1111
Coal-scuttle	G. W. Hodeaty	317,788	May 12	1144	303	31	740
Coal-scuttle	J. Kingsley	314,454	Mar. 24	1908	509	30	1159
Coal scuttle or hod	H. C. Hinman	316,035	Apr. 21	1465	382	31	279
Coal-tub	J. Pipher	324,484	Aug. 18	1468	402	32	810
Coal-vase	H. Adler	311,864	Feb. 10	529	145	30	455
Coal washing or separating machine	S. Stutz	324,341	Aug. 11	1279	347	32	769
Coaster	O. A. Wheeler	332,575	Dec. 15	1942	508	33	1356
Coasting-course. Artificial	J. Pusey	318,026	May 19	1478	396	31	811
Coasting device. Roller	S. S. Stoddard and O. Terwilliger	314,626	Mar. 31	2149	571	30	1227
Coasting or sledding course. Artificial	J. Pusey	318,025	May 19	1474	395	31	810
Coasting structure. Roller	L. A. Thompson	310,966	Jan. 20	1048	285	30	207
Coasting-vehicle. Roller	C. H. Alcock	310,356	Jan. 6	264	73	30	51
Coat	W. A. Fulmer	328,207	Oct. 13	907	226	33	172
Coat	A. J. Tower	310,922	Jan. 20	981	267	30	195

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dis.	Vol.	Page.
Coat-collar and hood. Combined	O. Flaig	314,660	Mar. 31	2195	582	30	1235
Coat-hanger. Folding	G. H. Donaldson	320,230	June 16	1720	457	31	1377
Coat. Horseman's	A. J. Tower	313,130	Mar. 3	119	29	30	798
Coat. Pommel.	H. Emanuel	320,299	Oct. 27	2423	628	33	463
Coating and covering for sides of rooms, &c. Combined	E. C. Morris	331,152	Nov. 24	2292	621	33	963
Coating handles, &c.	E. Kipper	333,469	Dec. 29	3190	830	33	1591
Cock	B. E. Panzig	324,151	Aug. 11	1003	276	32	717
Cock and air-vent. Water	J. Kelly	313,081	Mar. 3	56	15	30	788
Cock and bottle-stopper. Siphon stop	I. M. Abbott	312,600	Feb. 24	1567	429	30	685
Cock and indicator. Combined gage	S. Macfarlane	322,837	July 21	1924	509	32	366
Cock attachment. Gas	G. Dountney	319,396	June 2	561	152	31	1155
Cock attachment. Water	L. Shuster, Jr.	311,205	Jan. 27	1301	380	30	276
Cock box for water and gas pipes. Stop	A. R. Ketcham	332,401	Dec. 15	1693	443	33	1314
Cock box for water and gas pipes. Stop	L. P. Reichert and A. Fuller	326,674	Sept. 22	1933	508	32	1393
Cock box. Stop	J. K. Clark	311,871	Feb. 10	539	148	30	477
Cock box. Stop	B. C. Smith	311,265	Jan. 27	1490	405	30	293
Cock. Cylinder	G. W. Loomis	325,256	Sept. 1	30	9	32	1021
Cock for ammonia gas. Stop	E. Jungensfeld and H. Rassbach	332,345	Dec. 15	1610	423	33	1300
Cock for atmospheric burners. Damper	H. H. Sheldon	332,168	Dec. 8	1370	354	33	1250
Cock for gas and water fittings	H. P. Drew	311,650	Feb. 3	253	70	30	306
Cock for gas, steam, &c., fittings	H. P. Drew	325,624	Sept. 8	823	206	32	1173
Cock for house-service and street-washer connections	J. Moss	314,652	Apr. 14	938	246	31	175
Cock for nozzles. Shut-off	J. E. Prunty	316,913	Apr. 26	2691	700	31	507
Cock for sinks, &c. Waste	S. D. Samuels	327,597	Oct. 6	125	29	33	21
Cock for wash-basins	J. Jungbluth	314,943	Mar. 31	2595	687	30	1308
Cock for water-pipes. Self-closing	J. M. Brennan	318,083	May 10	1551	416	31	624
Cock. Gage	J. B. Atwood and A. W. Slate	310,490	Jan. 6	418	115	30	60
Cock. Gage	C. H. De Witt	326,092	Sept. 8	1063	270	32	1218
Cock. Gage	L. Shook	321,761	July 7	470	126	32	89
Cock. Gas	T. Gordon	318,978	June 2	67	17	31	1640
Cock. Gas	D. M. Parker	314,574	Mar. 31	2497	662	30	1213
Cock or valve	J. Buffet	329,809	Nov. 3	516	132	33	101
Cock. Self-closing	J. E. Boyle	329,807	Nov. 3	514	131	33	602
Cock. Self-packing and self-grinding	B. Martignoni and C. J. Carney	327,001	Sept. 29	2418	632	32	1447
Cock. Siphon	F. W. Lyman	317,465	May 5	729	184	31	655
Cock. Stop	W. Ricketts	312,165	Feb. 10	969	264	30	535
Cock. Stop and waste	H. A. Gorham	329,161	Oct. 27	2226	576	33	426
Cock. Stop and waste	D. Westervolt	333,368	Dec. 29	3047	795	33	1549
Cock. Stop and waste	D. Whiteford	319,157	June 2	272	72	31	1067
Cock. Valve	H. J. H. Brooks	315,234	Apr. 7	360	78	31	65
Cock. Water	P. A. Bowen	312,077	Feb. 10	834	297	30	512
Cocks and hydrants. Casing for	P. Connolly	313,060	Mar. 3	34	9	30	784
Cocks. Attachment for water-supply	H. S. Lord	312,673	Feb. 24	1929	528	60	728
Cocks in gas and water service. Casing for street	E. Lindsley	327,561	Oct. 6	79	17	33	15
Cocks of gas, &c. Extensible service-box for the stop	S. A. Brown	317,920	May 12	1396	355	31	775
Cocks. Safety attachment for gas	H. Laude	324,123	Aug. 11	970	267	33	711
Cockle-seed separator	G. Adams	318,677	May 26	2340	625	31	978
Cockle-separator	F. W. Howell	331,061	Nov. 24	2155	585	33	938
Cockle-separator	L. and J. M. Morgan	317,169	May 5	327	81	31	582
Cockeye	C. J. Cooper and H. Bollinger	322,907	July 28	2029	536	32	392
Cockeye	G. J. Letchworth	325,946	Sept. 8	903	245	32	1201
Cocoa-beans. Apparatus for hulling, assorting, and cleansing	H. Stollwerck	320,890	June 23	2632	696	31	1533
Cocoon pulp	F. Senn	331,559	Dec. 1	441	33	1076	
Coffee and spice mill	C. Halstead	310,418	Jan. 6	334	91	30	65
Coffee and tea box	F. Schombel	317,678	May 12	1006	261	31	714
Coffee and tea box	P. F. Weber	319,533	June 9	765	204	31	1196
Coffee and tea pot	W. T. Jones	320,561	June 23	2212	585	31	1474
Coffee and tea pot stand	C. Gracey	312,200	Feb. 10	1013	270	30	543
Coffee. Apparatus for treating hot roasted	J. C. Salzgeber	329,490	Nov. 3	89	24	33	522
Coffee-berries. Roasted	A. Schilling	312,515	Feb. 17	1461	30	635	
Coffee-berries. Roasted	A. Schilling	312,516	Feb. 17	1461	30	635	
Coffee. Coating and coloring	W. S. Long	326,227	Sept. 15	1348	32	1278	
Coffee-hulling machine	J. Schultze	312,767	Feb. 24	1722	491	30	704
Coffee-mill	J. C. Milligan and J. Chaumont	312,493	Feb. 17	1420	391	30	627
Coffee-mill	E. H. and C. Morgan	329,065	Oct. 27	2020	543	33	401
Coffee-mill	E. H. and C. Morgan	333,243	Dec. 29	2878	732	33	1759
Coffee or nut roaster	B. F. Shields	324,599	Aug. 18	1618	445	32	840
Coffee or tea pot	E. Boyes	325,223	Aug. 25	2470	679	32	1004
Coffee-pot	T. A. Byler	313,469	Mar. 10	604	156	30	898
Coffee-pot	P. A. Covington	333,282	Dec. 29	2934	707	33	1549
Coffee-pot	L. F. Jenks	310,904	Jan. 6	50	16	30	14
Coffee-pot	E. H. Jenkins	311,930	Feb. 10	722	198	30	499
Coffee-pot stand	J. Linders	333,215	Dec. 29	2983	781	33	1558
Coffee-roaster	T. B. C. Burpee	311,955	Feb. 10	667	183	30	440
Coffee-roaster	M. J. Clark	331,615	Dec. 1	564	137	33	1066
Coffee-roaster	M. Holmes	311,322	Jan. 27	1559	425	30	307
Coffee-roaster	S. S. Kingery	322,949	Oct. 27	1908	439	33	370
Coffee-roaster	C. Palitsch	312,376	Feb. 17	1256	346	30	597
Coffee-roaster	J. C. Salzgeber	316,066	Apr. 21	1504	393	31	225
Coffee-roaster	C. J. W. Shearer	331,828	Dec. 8	265	222	33	1160
Coffee-roaster	S. Stewart	327,344	Sept. 29	2874	749	32	1567
Coffee roaster and cleaner	J. Schmitt and J. P. Huber	322,646	July 21	1663	440	32	318
Coffee tank	H. P. K. Peck and F. Thomassen	328,060	Oct. 13	724	189	31	137
Coffer-dam	D. W. Howes	326,985	Sept. 29	2395	627	32	1453
Coffer-dam	E. F. Reaume	326,783	Sept. 22	2117	550	32	1425
Coffin	S. Coombe	321,220	June 30	3143	837	31	1653

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Coffin	L. Eichelberg	310,562	Jan. 6	132	38	30	27
Coffin	F. C. Goff	321,433	July 7	96	7	32	8
Coffin	D. B. Hiser	322,604	July 21	1011	426	32	309
Coffin	D. B. Hiser	322,559	Sept. 22	1775	465	32	1366
Coffin	W. Holdsworth	331,707	Dec. 1	695	171	32	1121
Coffin	A. S. Lovett	331,582	Dec. 8	1093	964	32	1203
Coffin	G. B. Markle, Jr.	314,332	Mar. 24	2030	541	30	1179
Coffin	J. C. Meyer	326,315	Sept. 15	1476	364	32	1302
Coffin	J. T. Richards	322,255	Dec. 29	2299	758	32	1543
Coffin	I. C. Shuler	330,432	Nov. 17	1358	362	33	780
Coffin	W. M. Walsh	312,237	May 26	2558	681	31	1016
Coffin-case	I. C. Shuler	317,029	May 5	122	33	31	546
Coffin-fastening device	S. A. Argerbright	320,434	June 23	2353	676	31	1539
Coffin-handle	G. C. Frazier	312,919	Mar. 10	1059	273	30	982
Coffin-lowering device	W. H. Johnston	311,075	Jan. 30	1206	331	30	237
Coffin-stool	H. Randles	327,311	Sept. 29	2224	737	32	1559
Coffins. Apparatus for lowering	J. Weidenmann and O. Grüninger	322,222	Nov. 3	137	35	33	531
Coffins. Device for lowering	W. S. Thayer	319,442	June 9	918	242	31	1226
Coffins into graves. Apparatus for lowering	F. Gamber	327,785	Oct. 6	369	94	33	64
Coffins. Lowering	C. E. and H. C. Reiche	322,531	Aug. 4	194	56	32	558
Coffins. Supporting-button for	S. E. Bandur	311,715	Feb. 3	330	91	30	411
Cog-wheel	H. O. Gadberry	324,032	Aug. 25	2087	571	32	934
Coll. Neutralizing	W. A. Jackson and J. C. Chambers	322,725	July 21	1771	467	32	338
Coin-cabinet	C. E. Howe	312,292	Mar. 10	756	199	30	927
Coin-changer's box	D. R. Ford	327,156	Sept. 29	2630	684	32	1523
Coin counter and tester	W. W. Haas	314,330	Mar. 24	1750	466	30	1128
Coin-sorter	G. M. Harcourt	320,266	Sept. 22	2236	563	32	1447
Coke from ovens. Apparatus for removing	G. W. Bierer	314,510	Mar. 24	1995	531	30	1172
Coke. Furnace for the manufacture of	H. M. Pierce	330,732	Nov. 17	1742	469	33	854
Coke. Manufacture of	I. M. Kelley	322,613	Dec. 15	1990	521	33	1366
Coke. Manufacturing	H. M. Pierce	318,497	May 26	2094	522	31	935
Coke. Manufacturing	H. M. Pierce	330,731	Nov. 17	1740	469	33	854
Coke-oven	E. J. Bowen	315,595	Apr. 14	864	227	31	160
Coke-oven	H. M. Pierce	318,496	May 26	2093	565	31	935
Coking coal	A. M. Chambers and T. Smith	320,627	June 23	2306	608	31	1490
Cold artificially. Apparatus for generating	W. C. Wren	319,434	June 2	619	168	31	1166
Cold. Production of	A. J. Rossi	332,751	Dec. 22	2197	.....	33	1410
Cold. Production of	A. J. Rossi	332,752	Dec. 22	2198	.....	33	1410
Collapsible can	F. R. Grout	317,041	May 12	958	246	31	705
Collapsible or folding boat	J. P. Wright	322,274	Sept. 1	199	51	32	1052
Collar	R. Butterworth	322,212	Nov. 3	521	133	33	603
Collar	J. Squires	312,247	Mar. 10	697	189	30	916
Collar and cravat	H. P. Huntton	327,087	Oct. 6	253	62	33	44
Collar and hame. Combined	V. S. Barber and S. D. Reynolds	330,456	Nov. 17	1390	370	33	785
Collar and hame. Combined horse	W. C. Agnew	331,750	Dec. 8	765	193	33	1143
Collar and hame. Horse	A. W. Tourgee	322,207	Nov. 3	109	99	33	526
Collar and sweat-pad clamp. Horse	R. Brownson	312,082	Feb. 10	840	220	30	513
Collar. Apparel	W. H. Gallup	311,184	Jan. 27	1362	373	30	271
Collar attachment. Horse	G. Van Wagenen	331,248	Dec. 1	127	31, 32	33	1021
Collar-fastener	M. F. Maddox	322,462	July 21	1419	371	32	274
Collar fastener. Horse	J. D. Lane	322,436	Sept. 15	1623	424	32	1329
Collar fastener. Horse	G. Marshall and E. S. Lafferty	324,136	Aug. 11	985	271	32	714
Collar fastening. Horse	N. A. Fisher and T. K. Burgess	320,446	June 23	2327	615	31	1494
Collar for overcoats. Storm	L. M. Brock and M. Wiener	322,230	Dec. 15	1454	377	33	1272
Collar. Horse	H. Brooks	327,377	Sept. 29	2919	761	32	1574
Collar. Horse	R. Brownson	312,081	Feb. 10	830	228	30	513
Collar. Horse	M. F. Cavanagh	322,274	July 22	2541	675	32	487
Collar. Horse	W. Coabie	312,244	May 26	2181	584	31	949
Collar. Horse	S. J. M. Cox	322,260	July 14	1146	299	32	218
Collar. Horse	S. B. Davis	312,71	Dec. 8	927	239	33	1171
Collar. Horse	J. Evans	312,715	Mar. 10	915	238	30	957
Collar. Horse	E. Fisher	320,863	June 23	2592	686	31	1547
Collar. Horse	I. Rothman and F. Schmidt	310,618	Jan. 13	586	161	30	118
Collar. Horse	M. F. Sauer	330,623	Nov. 17	1593	426	33	825
Collar. Horse	W. F. Scantlebury	313,775	Mar. 10	1001	250	30	972
Collar. Horse	W. E. Waller	319,044	June 2	134	37	31	1072
Collar. Horse	W. H. Wetmore	329,111	Oct. 27	2157	550	33	413
Collar housing. Horse	R. Brownson	331,783	Dec. 8	780	197	33	1145
Collar. Lady's	E. Fiske	332,507	Dec. 15	1832	480	33	1338
Collar mold. Horse	T. F. Lemassena	314,589	Mar. 31	2096	550	30	1218
Collar pad. Horse	J. Evans	313,714	Mar. 10	914	238	30	957
Collar pad. Horse	J. P. Hoffmann	318,251	May 19	1765	472	31	865
Collar pad. Horse	E. L. McClain	313,606	Mar. 10	773	203	30	930
Collar pad. Horse	E. L. McClain	321,622	July 7	290	76	32	55
Collar pad. Horse	D. C. Rice and J. Rossman	323,735	Aug. 4	461	130	32	609
Collar or cuff	C. H. Denison	322,697	July 21	1738	459	32	333
Collar or cuff	E. Kipper	322,729	July 21	1775	469	32	339
Collar or cuff	E. Kipper	330,832	Nov. 17	1871	506	33	878
Collar sweat-pad. Horse	E. L. McClain	321,126	June 30	2954	783	31	1617
Collar sweat-pad. Horse	J. Straus	313,963	Mar. 17	1274	332	30	1030
Collars. Apparatus for forming horse	T. Harris	313,420	Mar. 3	530	139	30	876
Collars. Apparatus for forming horse	T. Harris	324,023	Aug. 11	832	230	32	686
Collars. Fastening for sweat-pads for horse	A. Ortmayer	331,813	Dec. 8	836	213	33	1155
Collars, scarfs, &c. Device for exhibiting	F. J. Guth	319,406	June 2	576	157	31	1157
Color-producing acids. Manufacture of	H. Vollbrecht and C. Mensching	333,034	Dec. 22	2586	.....	33	1482
Color. Water	C. F. Nicholson	324,147	Aug. 11	998	.....	32	716
Colors. Decorating paper and other materials with oil	M. B. Martin	324,860	Aug. 25	1992	32	916

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Colors. Grinding	J. C. Jessup	317,367	May 5	592		31	632
Coloring-machine stop-motion	F. P. Fitz Simons	331,486	Dec. 1	326	88	33	1056
Coloring-matter derived from alphanaphthol and diazotoluol	H. Vollbrecht and C. Mensching	333,042	Dec. 22	2505		33	1482
Coloring-matter derived from alphanaphtholdisulphonic acid.	K. Vollbrecht and C. Mensching	333,035	Dec. 22	2587		33	1482
Coloring-matter derived from diazobenzol and alphanaphthol.	H. Vollbrecht and C. Mensching	333,041	Dec. 22	2594		33	1482
Coloring-matter derived from naphthol	O. Hoffmann	316,036	Apr. 21	1466		31	279
Coloring-matter from alpha naphthol and dinitronaphthol. Manufacture of	L. Vignon	324,615	Aug. 18	1651		32	845
Coloring-matter from amidoazo-benzole and homologues. Obtaining	L. Vignon	319,646	June 9	921		31	1226
Coloring-matter from beta-naphthol	M. Hoffmann	314,938	Mar. 31	2501		30	1306
Coloring-matter from betanaphthylamine sulpho-acid. Red	H. Prinz	332,830	Dec. 22	2288		33	1428
Coloring-matter from diazobenzol and alphanaphtholdisulphonic acid.	H. Vollbrecht and C. Mensching	333,039	Dec. 22	2592		33	1482
Coloring-matter from gamma disulphonic acid of beta-naphthol. Red	M. Hoffmann	314,939	Mar. 31	2502		30	1306
Coloring-matter from phenylhydrazine	H. Ziegler	324,630	Aug. 18	1675		32	849
Coloring-matter. Making	A. T. Böhme	329,125	Oct. 27	2180		33	417
Coloring-matter obtained from tetrazo-ditoly	C. Duisberg	329,632	Nov. 3	983		33	559
Coloring-matter obtained from tetrazo-ditoly	C. Duisberg	329,633	Nov. 3	984		33	559
Coloring-matter. Production of new yellow	E. Frank	329,639	Nov. 3	989		33	559
Coloring-matter. Red	J. H. Stebbins, Jr.	313,118	Mar. 3	106		30	796
Coloring-matter. Violet	F. Fischer	329,637	Nov. 3	988		33	559
Coloring-matter. Yellow	E. Frank	329,638	Nov. 3	988		33	559
Colter and plow cleaner	T. W. Corby	324,817	Aug. 25	1937	532	32	905
Colter. Caster.	W. S. Pates	324,482	Aug. 18	1467	402	32	810
Colter-cleaner	F. E. Jeanniquet	310,283	Jan. 6	161	45	30	32
Colter. Plow.	G. S. Briggs	313,631	Mar. 10	838	218	30	943
Colter. Plow.	O. A. Essig	327,872	Oct. 6	471	123	33	84
Colter. Plow.	T. C. Sargent	325,451	Sept. 1	319	77	32	1076
Colter. Revolving	J. D. Loomer	328,127	Oct. 13	807	210	33	133
Colter. Rolling	L. D. Ball and J. T. Bender	331,935	Dec. 8	1026	267	33	1191
Colter. Rolling	C. R. Hartman	313,073	Mar. 3	46	12	30	796
Column. Architectural	G. J. Weber	317,053	May 5	160	40	31	551
Column. Cast-iron	P. H. Griffin	312,349	Feb. 17	1229	338	30	591
Columns. Manufacture of metallic	A. H. Emery	322,050	July 14	880	228	32	168
Comb:							
See Barber's comb.	Electro-magnetic comb.						
Curry-comb.	Ornamental comb.						
Comb	F. Thormann and L. Von Bonhorst.	337,356	Sept. 29	2891	755	32	1569
Comb	T. J. Winans	327,372	Sept. 29	2908	759	32	1572
Comb attachment	C. H. Wells	325,226	Aug. 25	2476	681	32	1006
Comb for warping and beaming machines	T. C. Entwistle	333,899	Dec. 29	3085	805	33	1575
Comb-making machine	L. M. Chorier	311,060	Jan. 20	1182	324	30	232
Comb-making machine	L. M. Chorier	311,061	Jan. 20	1183	324	30	232
Comb-making machine	L. M. Chorier	311,061	Jan. 20	1183	325	30	232
Combining-machine and working short cotton delivered therefrom.	C. W. Simmons	318,046	May 19	1505	404	31	816
Combining-machine roller-stand	J. H. Whitehead	314,406	Mar. 24	1848	492	30	1148
Combining machine. Wool	J. Midgley	329,195	Oct. 27	2276	589	33	435
Combining machines. Stop-motion device for wool	J. Holden, J. Burnley, and J. Fawell	312,271	Feb. 17	1105	305	30	508
Combining machines. Stop-motion for wool	J. Midgley and W. Hall	310,989	June 16	1401	368	31	1319
Combining wool, cotton, &c. Machinery for	J. H. Whitehead	315,197	Apr. 7	306	73	31	54
Combination-lock	T. H. Cole and C. McCarrick	325,321	Sept. 1	121	34, 35	32	1038
Combination-table	G. D. Overin and O. Meyers	321,747	July 7	450	120	32	84
Combination-wrench	W. S. McKenzie	331,520	Dec. 1	375	101	33	1065
Combustion of gaseous fuel. Apparatus for the	J. Henderson	315,142	Apr. 7	209	51	31	32
Combustion of liquid fuel. Apparatus for the	J. D. Bodwell	320,532	June 23	2178	574	31	1466
Combustion of liquid fuel. Apparatus for	E. C. Burgess	315,238	Apr. 7	363	89	31	66
Combustion of liquid fuel. Device for the	J. D. Bodwell	320,533	June 23	2180	575	31	1467
Commode	J. Benner	322,891	July 28	2008	570	32	388
Commode	N. G. Du Bois	319,892	June 9	1253	331	31	1285
Commode	A. Eisenbach	331,120	Nov. 24	2247	611	33	955
Commode	W. H. Jolliffe	313,597	Mar. 10	764	301	30	928
Commode	F. Mink	333,321	Dec. 29	2987	782	33	1559
Commode. Chair	B. Rubenstein	321,915	July 7	692	180	32	125
Commode. Child's nursery	D. A. Carter	331,266	Dec. 8	922	237	33	1170
Comparator	W. A. Rogers and G. M. Bond	332,110	Dec. 8	1286	334	33	1236
Compass. Mariner's	J. Scotland and F. Cordon	310,729	Jan. 13	731	199	30	145
Compass. Mariner's	R. L. Slesater	320,823	June 23	2540	673	31	1536
Compass-needle	G. Blanchard	332,760	Dec. 22	2231	588	33	1417
Compasses. Azimuth attachment to	W. S. Thaxter	327,351	Sept. 29	2893	753	32	1568
Compasses. Beam	E. E. Hickok	329,031	Oct. 13	682	179	33	130
Composing-stick	C. M. Grow	318,893	May 26	2635	699	31	1030
Composing-stick	W. Hendrickson	310,422	Jan. 6	338	93	30	66
Composite bar	R. H. Libby	332,405	Dec. 15	1636	444	33	1315
Composite bars. Making	R. H. Libby	332,406	Dec. 15	1637	444	33	1315
Composite roller	F. Taylor	329,099	Oct. 27	2140	553	33	410
Compound engine	P. Brotherhood	332,484	Dec. 15	1796	472	33	1332
Compound engine	S. L. Hatfield	318,898	May 26	2640	700	31	1031
Compound jack	L. Becker	314,560	Mar. 31	2064	551	30	1212
Compressor-cylinder	W. H. Worthen	317,068	May 5	178	45	31	555
Concentrating-machine	J. E. Westlake	328,027	Oct. 20	1484	387	33	284
Concentrator	G. S. Armstrong	327,915	Oct. 6	530	138	33	95
Concentrator	J. E. Clayton	316,116	Apr. 21	1592	411	31	300
Concentrator	J. N. Randel	332,931	Dec. 22	2288	603	33	1428
Concrete light for buildings, areas, &c.	T. Hyatt	317,945	May 12	1358	365	31	781
Concrete-mixing machine	E. L. Ransome	322,006	July 14	819	215	32	137

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Concrete structures. Mold or cribbing for	E. L. Ransome	314,398	Mar. 24	1835	489	30	1145
Concrete surfaces. Combined roller and tile-ruler for marking	B. Riordan	324,166	Aug. 11	1099	281	32	791
Concrete walls, blocks, &c. Making	T. W. Carrico	319,390	June 2	554	.....	31	1153
Concrete walls. Mold and mold-hoisting apparatus for building	T. W. Carrico	310,377	Jan. 6	289	79	30	55
Condenser	J. Klingel	322,615	July 21	1628	430	32	312
Condenser and heater	J. Kirkaldy	311,839	Feb. 3	486	133	30	440
Condenser. Spirit	F. Sonier	310,963	Jan. 20	1044	284	30	305
Condenser. Steam	T. Barber	320,746	June 23	2447	649	31	1519
Condenser. Steam-engine	P. B. Perkins	320,087	June 16	1531	405	31	1343
Condenser. Steam-jet	L. Schutte	330,157	Nov. 10	991	258	33	701
Condenser. Surface	B. S. Benson	328,752	Oct. 20	1641	428	33	314
Condenser. Surface	T. Gannon	320,047	June 23	2328	615	31	1495
Condenser. Surface	F. M. Wheeler	332,468	Dec. 15	1775	464 465	33	1328
Condensing-engine	F. A. Gale	310,573	Jan. 13	534	147	30	108
Condensing-engine	W. F. Martin	331,984	Dec. 8	1095	284	33	1203
Condensing-engines. Safety apparatus for	C. C. Worthington	317,069	May 5	180	45, 46	31	556
Condiment	R. F. Maier	316,799	Apr. 28	2518	.....	31	475
Conducting-cords. Flexible tip for	G. K. Thompson	317,887	May 12	1279	340	31	706
Conductor	E. Clark	333,111	Dec. 29	2695	707	33	1506
Conductor-hook	J. Leadley	327,279	Sept. 29	2788	722	32	1551
Conductor-pipe	J. Leadley	332,402	Dec. 15	1693	443	33	1314
Conduit for wires	H. F. Cox	328,012	Oct. 13	657	173	32	126
Conduit-pipe	T. Bacmeister	310,773	Jan. 13	728	213	30	155
Confection	F. P. Ziegler	330,050	Nov. 17	1637	440	33	835
Confection-capsule	J. Stuckes, Jr.	325,711	Sept. 8	671	168	32	1146
Confectionery	S. Schayer	320,003	June 16	1420	373	31	1322
Confectionery	A. Schwarzschild and N. Greenfield	315,559	Apr. 14	822	216	31	153
Confectionery. Article of	W. Reinhardt	312,761	Feb. 24	1777	489	30	703
Connecting-rod	D. A. Woodbury	315,689	Apr. 14	984	258	31	185
Connecting-rods. Stub end for	L. Griscom	328,8-5	Oct. 20	1810	471	33	345
Connecting-rods. Stub end for	L. Griscom. (Reissue)	10,668	Dec. 1	702	192	33	1134
Converter	J. C. Doda	328,241	Oct. 20	1749	456	33	335
Converter	H. Schulze-Berge	316,837	Apr. 28	2577	674	31	487
Converter	J. F. Wilcox	314,551	Mar. 24	2044	545	30	1181
Converter	J. P. Witherow	327,420	Sept. 29	2973	776	32	1584
Converter	J. P. Witherow	327,421	Sept. 29	2974	776	32	1584
Converter	J. P. Witherow	327,422	Sept. 29	2975	777	32	1584
Converter	J. P. Witherow	327,423	Sept. 29	2976	777	32	1584
Converter	J. P. Witherow	327,424	Sept. 29	2976	777	32	1585
Converter for the manufacture of iron and steel	E. M. Butz	332,636	Dec. 15	2018	530	33	1371
Converters. Appliance for regulating the blast-pressure of	J. P. Witherow	317,263	May 5	454	114	31	606
Converters. Blast appliance for	J. F. Wilcox	317,478	May 5	746	189	31	658
Converters. Operating	J. F. Wilcox	318,582	Apr. 14	851	224	31	158
Converters. Regulating the blast-pressure of	J. P. Witherow	317,264	May 5	455	114	31	607
Convertible chair	J. H. Batton	331,111	Nov. 24	2233	606 607	33	963
Convertible chair	E. H. Lewis	321,230	June 30	3082	818	31	1642
Convertible chair	J. L. McKay	322,950	July 28	2090	656	32	404
Convertible chair	B. C. Odell	317,000	May 5	97	25	31	540
Convertible chair	B. C. Odell	317,001	May 5	98	25	31	540
Convertible chair	J. K. Perley	332,285	Dec. 15	1529	401	33	1286
Convertible chair	J. Preston	326,241	Sept. 15	1371	354 355	32	1281
Convertible chair	A. Sawyer	312,090	Feb. 10	765	208	30	498
Convertible chair	C. H. Weisgerber, Jr.	325,999	Sept. 8	1033	262	32	1212
Convertible chair and velocipede	W. Holden	328,414	Dec. 29	8106	809	33	1578
Conveyer	W. Griesser	331,961	Dec. 8	1061	275 276	33	1198
Conveyer	C. H. Morgan	319,299	June 2	441	118	31	1131
Conveyer and separator. Combined	L. Gathmann	319,209	June 9	1143	302	31	1266
Conveyer apparatus	J. F. Downing	310,393	Jan. 6	307	85	30	59
Conveyer apparatus	J. F. Downing	320,340	June 16	1896	499	31	1407
Conveyer apparatus	H. Smith	326,928	Sept. 22	2318	606	32	1461
Conveyer apparatus	H. Smith	333,352	Dec. 20	3026	790 791	33	1565
Conveyer apparatus. Automatic	H. Smith	326,929	Sept. 22	2319	607 608	32	1461
Conveyer. Endless or pan	F. I. Pearce	312,801	Feb. 24	1947	532	30	732
Conveyer-flights. Machine for making	S. Cox	328,013	Oct. 13	659	173 174	33	126
Conveyer. Spiral	W. C. and N. C. Marr	323,944	Aug. 11	728	203	32	667
Conveying apparatus	T. E. Proctor, R. Whitaker, and H. P. Reed	327,108	Sept. 29	2564	668	32	1512
Cooker. Feed	C. H. Marshall	327,806	Oct. 6	395	102	32	69
Cooker. Steam	J. N. Anderson and J. M. Sherman	326,702	Sept. 22	1975	519	32	1401
Cooker. Steam	D. M. Armstrong	322,774	July 21	1833	485	32	350
Cooker. Steam	H. A. Eaton	310,657	Jan. 13	635	175	30	127
Cooker. Steam	J. A. Marden	325,100	Aug. 25	2309	635	32	975
Cooker. Steam	J. H. Parker	332,283	Dec. 15	1527	400	33	1285
Cooker. Steam	J. A. Shaw	325,980	Sept. 8	1007	257	32	1208
Cooking and canning apparatus	J. G. Briggs	321,480	July 7	97	26	32	19
Cooking apparatus. Feed	J. J. Cox	315,389	Apr. 7	551	142	31	100
Cooking apparatus. Steam	R. E. Deane	329,024	Oct. 27	2034	522	33	892
Cooking apparatus. Steam	J. J. Haden and W. S. Gobble	325,335	Sept. 1	130	38, 39	32	1041
Cooking apparatus. Steam	J. D. Johnson and W. H. Long	316,549	Apr. 28	2161	568	31	410
Cooking-table	E. R. Swan	327,502	Sept. 29	3067	189	32	1600
Cooking utensil	R. H. and E. A. Everett	322,532	July 21	1517	399	32	292
Cooking utensil	N. E. Robinson	314,057	Mar. 17	1385	362	30	1051
Cooking utensil	H. J. Rutter	323,687	Aug. 4	648	183	33	645
Cooking utensil	M. B. Tate	325,188	Aug. 25	2422	606	33	996

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Cooking utensils. Device for joints in	T. F. Dean	315,917	Apr. 14	1311	341	31	243
Cooking-vessel	H. J. Rutter	313,453	Mar. 3	580	140	30	884
Cooking-vessel. Steam	A. J. Dudley	311,821	Feb. 3	461	125	30	435
Cooking-vessels, &c. Automatic heat-regulator for ..	A. J. Simpson	332,295	Dec. 15	1541	404	33	1287
Cooler:							
See Beer-cooler. Milk-cooler.							
Corpse-cooler. Milk and water cooler.							
Fluid-cooler. Molasses-cooler.							
Liquid-cooler. Water-cooler.							
Cooling and embalming table	T. H. De Motte	310,884	Jan. 20	923	252	30	186
Cooling and freezing fluids. Apparatus for	A. Kux	320,144	June 16	1607	425	31	1356
Cooling and refrigerating apparatus	F. G. Johnson	332,926	July 21	1905	506	32	363
Cooling-board	O. P. Boyer	323,391	Aug. 4	12	3	32	525
Cooling buildings, &c. Apparatus for	H. C. Johnson	316,976	May 5	60	16	31	533
Coop. Powl	R. W. Goddard	313,319	Mar. 3	407	101	30	851
Coop. Poultry	H. J. Haight	328,113	Sept. 15	1183	303	32	1248
Coping	J. F. Smith	317,867	May 12	1257	334	31	762
Copper by electricity. Apparatus for refining	M. G. Farmer	329,189	July 14	1040	270	32	197
Copper by electricity. Apparatus for refining	M. G. Farmer	322,170	July 14	1041	270	32	197
Copper by electrolysis. Apparatus for refining	M. G. Farmer	315,265	Apr. 7	394	98, 99	31	72
Copper from its ores. Extracting	E. Marchese	326,780	Sept. 22	2082		32	1419
Copper. Electro-depositing	M. G. Farmer	319,687	June 9	963		31	1235
Copy-holder	W. H. Clarkson	311,293	Jan. 27	1526	{ 415 416 }	30	301
Copy-holder and blotter	W. H. Clarkson	324,359	Aug. 18	1303	354	32	721
Copying apparatus. Light	H. Sack	324,960	Aug. 25	2126	581	32	941
Copying-machine	S. Wheeler	314,691	Mar. 17	1435	315	30	1061
Copying-machine. Letter	J. F. Lash	333,312	Dec. 22	2978	779	33	1557
Copying-press	D. E. Kempster	328,039	Oct. 13	692	182	33	132
Copying-press. Portable	H. M. Hinsdill	326,651	Sept. 22	1901	500	32	1367
Copying process	W. G. Morse	325,353	Sept. 1	160	43	32	1045
Cordage and twine making machines. Friction device for spools in	B. S. and J. B. Hale	325,336	Sept. 1	141	39	32	1041
Cordage. Machine for making	J. P. Tolman	326,607	Sept. 22	1847	{ 484 485 }	32	1377
Cordage. Manufacturing	J. Good	330,315	Nov. 10	1189	318	33	741
Cordage. Preparation, manufacture, and treating of yarn, hemp, and other materials employed in the manufacture of	M. H. Day	320,763	June 23	2470		31	1524
Cords with silk threads. Machine for covering	E. Franke	328,884	Oct. 20	1808	471	33	345
Core-arbor	A. J. Doane	317,102	May 5	225	57	31	565
Core-bar	F. Shickle	319,520	June 9	748	200	31	1195
Core-barrel. Collapsible	P. Wilkes	330,637	Nov. 17	1635	439	33	834
Core-making machine	R. Savage	329,959	Nov. 10	726	186	33	648
Cores. Apparatus for making dry-sand	J. H. Blessing	315,465	Apr. 14	673	175	31	126
Cork-cutting machine	J. L. Murphey	325,856	Sept. 8	858	216	32	1180
Cork-driver	J. Sommer	324,963	Aug. 25	2129	582	32	942
Cork-retainer	E. H. Morgan	321,237	June 30	3090	821	31	1643
Cork. Siphon	J. Low	327,401	Sept. 22	2950	770	32	1520
Corking and filling machine	C. H. Dresser	312,448	Feb. 17	1350	{ 372 373 }	30	616
Corking device for vessels	C. Missel	331,253	Nov. 24	2444	661	33	939
Corking-machine	A. Bannwart and E. Ermold	311,634	Feb. 3	233	65	30	392
Corking-machine	J. J. H. Schultz	319,138	June 2	252	66	31	1094
Corkscrew	A. Friedmann and A. L. Blumenberg	330,974	Nov. 24	2057	556	33	920
Corkscrew	E. P. Haff	315,773	Apr. 14	1111	292	31	208
Corkscrew	E. P. Haff	317,123	May 5	259	65	31	571
Corkscrew	H. Strait	317,039	May 5	138	35	31	547
Corkscrew	M. A. Wier	330,357	Nov. 10	1253	333	33	752
Corkscrew	B. Wilhelm	310,766	Jan. 13	781	211	30	153
Corn cutter. Green	S. D. Warfield	316,701	Apr. 28	2381	{ 620 621 }	31	451
Corn-cutting machine. Green	A. P. Woods and W. E. Lindsay	315,588	Apr. 14	858	226	31	159
Corn-drill	M. Porter	314,604	Mar. 31	2117	564	30	1222
Corn from the cob. Machine for cutting	B. Collins	327,884	Oct. 6	464	191	33	62
Corn-house	J. H. Bailey	331,755	Dec. 8	772	195	33	1144
Corn-hulling mill	C. S. Day	313,097	Mar. 17	1312	342	30	1038
Corn-husking machine	I. M. Chase	310,182	Jan. 6	29	8, 9	30	8
Corn-husking machine	J. Johnston and B. B. Stewart	318,150	Apr. 21	1628	{ 426 427 }	31	309
Corn-husking machine	J. A. Webber	327,042	Sept. 29	2471	645	32	1496
Corn knife and shield	G. H. Sawyer	328,344	Oct. 13	1080	281	33	205
Corn-popper	G. T. Copeland	312,612	Feb. 24	1579	432	30	667
Corn-sheller	J. Q. and O. R. Adams	313,042	Mar. 3	2	1	30	779
Corn-sheller	H. A. Barnard and J. B. Cornwall	323,777	July 21	1836	{ 468 467 }	32	350
Corn-sheller	Q. E. Bohannon	316,728	Apr. 22	2424	631	31	458
Corn-sheller	E. C. Fisher	322,535	July 21	1519	400	32	222
Corn-sheller	S. E. King and J. H. Gilman	330,495	Nov. 17	1440	385	33	795
Corn-sheller	A. V. and M. H. Pitts	322,964	July 28	2112	562	32	407
Corn-sheller	N. Potter	313,619	Mar. 10	794	206	30	934
Corn-sheller	S. C. Schofield	318,041	May 19	1497	402	31	815
Corn-shellers. Cylinder for	J. H. Gilman	325,671	Sept. 8	606	153	32	1135
Corn-shock compressor	J. B. Hughes	333,304	Dec. 29	2967	776	33	1555
Corn-shocker	E. W. Comegys	326,403	Sept. 15	1582	411	32	1322
Corn-sifter	S. D. Warfield	322,220	July 14	1101	288	32	229
Corn silking-machine. Green	J. B. Baker	316,864	Apr. 28	2613	691	31	493
Cornstalk-chopper	W. O. Alexander	321,566	July 7	219	58	32	43
Cornstalk-cutter	G. A. Stone	321,919	July 7	698	182	32	137
Corner-iron	T. Lumsdon	312,481	Feb. 17	1404	337	30	625
Cornet or other musical instrument	W. Booth	316,519	Apr. 28	2126	559	31	404
Cornet-tuning attachment	W. Buckley	331,679	Dec. 1	660	163	33	1114
Cornice	F. Mankey	332,723	Dec. 22	2153	570	33	1492

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Cornice	L. Woelfe	316,715	Apr. 28	2402	626	31	455
Cornice and ceiling decoration	A. Carlewitz	323,110	July 28	2321	615	32	446
Corpse cooler and preserver	H. C. Johnson	311,764	Feb. 3	395	107	30	422
Corpse cooler and preserver	H. C. Johnson	328,686	Oct. 20	1558	406	33	298
Corrugating rolls. Tool for	T. H. Stevenson	312,922	Feb. 24	1985	542	30	739
Corset	M. R. Bortree	318,344	May 19	1899	511	31	889
Corset	M. P. Bray	321,791	July 7	518	137	32	97
Corset	M. P. Bray	328,677	July 21	1703	451	32	327
Corset	M. P. Bray	323,630	Aug. 4	328	94	32	583
Corset	S. Bryant	321,251	July 14	1136	296	32	216
Corset	M. Cohn	310,798	Jan. 13	815	221	30	160
Corset	M. Cohn	319,676	June 9	953	253	31	1233
Corset	J. S. Crotty	329,368	Oct. 27	2535	653	33	482
Corset	S. B. Ferris	327,781	Oct. 6	359	93	33	63
Corset	M. Gardner	325,000	Sept. 1	509	127	32	1112
Corset	T. S. Gilbert	317,335	May 5	558	143	31	625
Corset	T. S. Gilbert	332,245	Dec. 15	1477	386	33	1276
Corset	J. Hillborn	319,715	June 9	1000	266	31	1242
Corset	M. M. Jones	332,202	Dec. 8	1407	363	33	1257
Corset	J. Mayer	328,129	Oct. 13	809	211	33	153
Corset	J. Mayer	328,130	Oct. 13	810	211	33	153
Corset	J. Mayer	328,131	Oct. 13	811	211	33	154
Corset	C. A. McGee	323,706	Aug. 4	420	120	32	601
Corset	W. A. Nettleton	315,436	Apr. 7	628	162	31	112
Corset	A. E. Prouditt	326,058	Sept. 8	1116	284	32	1229
Corset	L. S. Purinton	320,964	June 30	2737	728	31	1579
Corset	G. Schilling	312,905	Feb. 24	1963	536	30	735
Corset	J. M. St. Claire	322,497	July 21	1480	389	32	285
Corset	H. S. Strauss	324,497	Aug. 18	1486	407	32	814
Corset	C. H. Williams	316,858	Apr. 28	2606	680	31	492
Corset and garment-supporter. Combined	A. L. Zorkowski	315,990	Apr. 14	1405	364	31	260
Corset and garment-supporter. Combined	A. L. Zorkowski	317,958	May 12	1378	370	31	785
Corset and shoulder-brace. Combined	I. Strouse	317,473	May 5	740	187	31	657
Corset attachment	W. McWaters	318,776	May 26	2475	663	31	1003
Corset-bustle attachment	M. A. Waterhouse	321,408	June 30	3311	883	31	1685
Corset-clasp	J. M. Cohn	310,797	Jan. 13	814	221	30	160
Corset-clasp	G. H. Colley	314,434	Mar. 24	1887	503	30	1154
Corset-clasp	L. Hill	310,512	Jan. 6	443	122	30	86
Corset-clasp	B. J. Malone	326,230	Sept. 15	1351	349	32	1278
Corset-fastening	M. Hertz	330,113	Nov. 10	935	244	33	680
Corset-fastening	L. Hill	311,986	Feb. 10	719	196	30	489
Corset-fastening	L. Hill	315,031	Apr. 7	61	14	31	13
Corset-fastening	H. Jetter	318,119	May 19	1597	427	31	834
Corset-fastening	P. Laffin	311,995	Feb. 10	728	199	30	490
Corset-fastening	A. Rammoser	330,132	Nov. 10	987	257	33	700
Corset-fastening	C. H. Williams	319,054	Feb. 10	802	219	30	505
Corset-fastening	C. H. Williams	312,055	Feb. 10	803	219	30	505
Corset-fastening	C. H. Williams	312,238	Feb. 10	1060	292	30	552
Corset-press	J. A. House	316,547	Apr. 23	2158	567	31	410
Corset-shaping apparatus	J. A. House	318,256	May 19	1770	473	31	866
Corset-shaping machine	T. S. Gilbert	331,701	Dec. 1	686	169	33	1119
Corset-spring	C. Thury and S. De Bassecourt	316,852	Apr. 28	2597	678	31	490
Corset-stay	M. W. Henius	330,398	Nov. 17	1319	350	33	772
Corset-stay	W. A. Nettleton	320,162	June 16	1629	434	31	1360
Corset-stay	H. C. Sherwood	323,219	July 28	2470	656	32	473
Corset-stay	A. J. Worral	317,605	May 12	912	234	31	697
Corset-stays. Manufacture of	M. W. Henius	316,034	Apr. 21	1464	392	31	278
Corset-steel clasp or fastening	L. Hill	316,148	Apr. 21	1626	425	31	308
Corset-steel fastening	D. Alcorn, Jr., and R. A. Blake	317,099	May 12	1034	268	31	719
Corset-steel fastening	D. Alcorn, Jr., and R. A. Blake	326,259	Sept. 15	1397	364	32	1286
Corset-steel fastening	T. C. Bates	319,948	June 16	1344	354	31	1309
Corset-steel fastening	L. Hill	311,987	Feb. 10	720	197	30	489
Corset-steel fastening	L. Hill	313,074	Mar. 3	48	12	30	787
Corset-steel fastening	L. Hill	314,530	Mar. 24	2021	539	30	1177
Corset-steel fastening	L. Hill, (Reissue)	10,596	May 12	1382	371	31	786
Corset-steel fastening	P. Laffin	312,209	Feb. 10	1026	280	30	546
Corset stretching and finishing machine.	J. A. House	318,255	May 19	1770	473	31	866
Corsets. Machine for shaping	S. H. Rosenberg	329,414	Oct. 27	2603	471	33	495
Corsets. Manufacture of surgical	J. W. Battershall	328,638	Oct. 20	1499	390	33	287
Corsets, &c. Stiffener for	J. F. J. Gunning	321,289	June 30	3154	841	31	1853
Corsets. Stiffening-cord for	I. Newman and G. H. Blakesley	327,817	Oct. 6	408	106	33	71
Corsets, &c. Stiffening-spring for	O. A. Gorton	319,404	June 2	573	156	31	1157
Cot.	C. B. Camp	314,997	Apr. 7	15	4	31	5
Cot.	C. P. Nash	317,174	May 5	334	83, 84	31	584
Cot, chair, &c. Convertible	P. Davey	322,354	July 14	1267	331	32	241
Cot. Folding	C. J. Baker	327,055	Sept. 29	2485	649	32	1498
Cot. Folding	H. D. Harl	321,211	June 30	3080	812	31	1638
Cot. Folding	N. N. Horton	324,843	Aug. 25	1971	541	32	912
Cots. Automatic head-support for	W. H. Wooldridge	329,610	Nov. 3	256	66	33	554
Cotter-pin	J. Adt	324,206	Aug. 11	1101	297	32	735
Cotter-pins. Machine for making	J. Adt	330,661	Nov. 17	1639	440	33	835
Cotter-pins. Making	J. Adt	330,660	Nov. 17	1638	440	33	835
Cotters. Machine for pointing	W. A. Smith and I. A. Weston	319,429	June 2	608	164	31	1164
Cotton and hay press	B. J. Curry	311,816	Feb. 3	456	124	30	434
Cotton and hay press	R. Garside	321,208	June 30	3057	811	31	1637
Cotton and other fibers. Machine for opening and cleaning	A. Clarke and H. C. Perham	312,815	Feb. 24	1846	507	30	714
Cotton and other fibers. Machine for opening and cleaning	J. C. Potter	321,851	July 7	617	158	32	112

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cotton and other fibers. Machine for opening and cleaning	J. C. Potter	321,852	July 7	619	159	32	113
Cotton-buncher	S. Tynes	316,923	Apr. 28	2701	703	31	509
Cotton-chopper	J. F. Barringer	321,174	June 30	3012	708	31	1629
Cotton-chopper	H. T. Butler	310,493	Jan. 6	491	116	30	81
Cotton-chopper	H. G. Cady	314,104	Mar. 17	1451	379	30	1063
Cotton-chopper	R. F. Cochran	323,497	Aug. 4	147	44	32	549
Cotton-chopper	J. D. Faulkner	312,108	Feb. 10	871	239	30	519
Cotton-chopper	J. I. Greer, W. M. Harper, and J. Greer	330,477	Nov. 17	1421	379	33	792
Cotton-chopper	J. S. Lamar	310,446	Jan. 6	363	{ 100 101 }	30	71
Cotton-chopper	J. S. Lamar	322,941	July 28	2075	532	32	400
Cotton-chopper	J. S. Lamar	326,570	Sept. 22	1788	469	32	1368
Cotton-chopper	M. M. McGregor	328,585	Oct. 20	1487	372	33	275
Cotton-chopper	J. T. Miller	323,192	July 28	2435	645	32	467
Cotton-chopper	W. Price	317,195	May 5	366	91, 92	31	560
Cotton-chopper	J. B. Robinson	327,584	Oct. 6	123	28	33	23
Cotton-chopper	C. Sander	326,791	Sept. 22	2131	554	32	1427
Cotton chopper and cultivator	G. M. Badger	310,636	Jan. 13	606	{ 167 168 }	30	122
Cotton chopper and cultivator	T. B. Goldsmith	330,314	Nov. 10	1188	317	33	741
Cotton chopper and cultivator	J. H. Sale	322,975	July 28	2135	567	32	412
Cotton chopper and cultivator. Combined	L. Z. Grigsby	310,416	Jan. 6	331	91	30	65
Cotton-cleaner	J. Ralston	310,315	Jan. 6	205	556	30	39
Cotton-cleaner	S. Tucker	316,505	Apr. 28	2109	{ 554 555 }	31	400
Cotton cleaner and feeder	J. S. Daniell	312,192	Feb. 10	1004	{ 273 274 }	30	542
Cotton-compressor	M. T. Brown	325,314	Sept. 1	113	32, 33	32	1036
Cotton-drier	J. H. Lorimer	332,543	Dec. 15	1895	495	33	1346
Cotton-elevator and cotton-gin feeder	A. D. Thomas	331,841	Dec. 8	887	229	33	1164
Cotton-gin	W. W. Brigg	324,646	Aug. 18	1709	469	32	854
Cotton-gin	I. F. Brown	317,921	May 12	1327	{ 356 357 }	31	776
Cotton-gin	O. T. Bug	333,387	Dec. 29	3067	800	33	1572
Cotton-gin	J. E. Carver	324,457	Aug. 18	1434	392	32	804
Cotton-gin	W. L. Crowson	314,917	Mar. 31	2558	{ 676 677 }	30	1302
Cotton-gin	W. Deering	318,362	May 19	1920	518	31	894
Cotton-gin	F. C. Gammons	327,936	Oct. 6	559	145	33	100
Cotton-gin	F. C. Gammons	327,937	Oct. 6	550	145	33	100
Cotton-gin	E. C. Horne	311,001	Jan. 20	1096	300	30	317
Cotton-gin	C. T. Mason, Jr.	316,280	Apr. 21	1795	472	31	338
Cotton-gin	C. T. Mason, Jr.	316,378	Apr. 21	1923	508	31	361
Cotton-gin	C. T. Mason, Jr.	316,379	Apr. 21	1924	508	31	361
Cotton-gin	J. T. Nixon and D. N. Cross	331,729	Dec. 1	730	183	33	1126
Cotton-gin	G. L. Rollins	328,067	Oct. 13	733	191	33	139
Cotton-gin	A. J. Vandegrift	320,901	June 23	2047	{ 702 703 }	31	1556
Cotton-gin	O. Washburne	323,548	Aug. 4	220	65	32	562
Cotton-gin feeder	O. Washburne	328,159	Oct. 13	847	220	33	160
Cotton-gin feeder	G. Winship	313,038	Feb. 24	2144	583	30	767
Cotton-gin. Picker-feeder	W. Dearborn	319,964	June 16	1365	358	31	1313
Cotton-gin rib	W. F. Edwards	310,193	Jan. 6	44	13	30	11
Cotton-gin rib	F. C. Gammons	339,069	Dec. 8	1921	319	33	1225
Cotton-gin rib	J. A. Smiley	332,296	Dec. 15	1543	404	33	1228
Cotton-gins. Knife-carrying crank-leg for	M. Pollitzer	313,685	Mar. 10	872	228	30	950
Cotton-opener	A. T. Atherton	311,097	Jan. 20	1233	338	30	241
Cotton or hay press	L. L. Taylor	333,359	Dec. 29	3037	793	33	1567
Cotton-packer	A. Hart	327,259	Sept. 29	2758	{ 715 716 }	32	1547
Cotton-packing device	D. C. Summers	332,304	Dec. 15	1552	{ 406 407 }	33	1229
Cotton-picker	J. T. Martin	323,702	Aug. 4	417	119	32	601
Cotton-picker	M. C. Walling	313,139	Mar. 3	133	32	30	801
Cotton-picker stem	C. T. Mason, Jr.	311,344	Jan. 27	1596	437	30	314
Cotton-picker stem	C. T. Mason, Jr.	312,047	Feb. 24	1622	446	30	675
Cotton-picker stem	C. T. Mason, Jr.	331,514	Dec. 1	365	98	33	1064
Cotton-picker's sack	C. H. Dye	310,344	Apr. 21	1874	496	31	352
Cotton-picking device	G. Beekman	332,845	Dec. 22	2342	619	33	1436
Cotton-press	P. C. Close	319,196	June 2	316	84	31	1106
Cotton-press	R. F. Horton	331,300	Dec. 1	61	15	33	1010
Cotton-press	G. McGovern	327,297	Sept. 29	2807	{ 730 731 }	32	1556
Cotton-press	G. McGovern	328,798	Oct. 20	1893	441	33	324
Cotton-press	J. L. Sheppard	321,542	July 7	189	50, 51	32	57
Cotton-press	S. I. Wilkins	326,698	Sept. 22	1971	518	32	1400
Cotton-press feeder	H. Sels	313,627	Mar. 10	801	210	30	935
Cotton-press packing attachment	J. B. Bradford	327,858	Oct. 6	457	{ 118 119 }	33	81
Cotton-scraper	N. C. Orrick	327,012	Sept. 29	2430	635	32	1469
Cotton-silver eveners. Device for adjusting	E. P. Phillips	330,501	Nov. 17	1825	492	33	869
Cotton-stalk chopper	H. Thiel	331,922	Dec. 8	1011	202	33	1167
Cotton-stalk chopper	J. A. Woodard	343,014	July 28	2183	579	32	420
Cotton sweep, chopper, &c. Combined	T. J. Fowler	315,490	Apr. 7	573	148	31	103
Couch	T. R. Jones	216,043	Apr. 21	1473	384	31	220
Countersink	G. W. Abbott and G. S. Forrest	327,641	Oct. 6	189	46	33	34
Countersink	F. Len	328,320	Oct. 13	1046	270	33	198
Countersink	N. Schenkel	323,448	Aug. 4	85	25	32	538
Countersink	G. R. Valentine	332,308	Dec. 15	1556	409	33	1291
Countersinking-machine	L. L. Lamb	316,271	Apr. 21	1779	468	31	335
Counting attachment for machines	A. M. Barnham	317,438	May 5	698	176	31	649

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Coupling:							
See Belt-coupling.	Pole and shaft coupling.						
Cable-coupling.	Rail-coupling.						
Car-coupling.	Railway-rail coupling.						
Carriage-coupling.	Rope-coupling.						
Clutch-coupling.	Shaft-coupling.						
Cultivator-coupling.	Spring-coupling.						
Electric coupling.	Thill-coupling.						
Fence-wire coupling.	Thill and pole coupling.						
Friction-coupling.	Vehicle-coupling.						
Harvester-pitman coupling.	Vehicle-spring coupling.						
Hose-coupling.	Wagon-box coupling.						
Lightning-rod coupling.	Wagon-reach coupling.						
Pipe-coupling.	Wheel and axle coupling.						
	Whiffletree-coupling.						
Coupling and union. Universal angle	H. F. Hodges	327,877	Oct. 6	476	124	33	84
Coupling-bolt	M. Miller	331,425	Dec. 1	248	65	33	1042
Coupling device. Friction	R. H. Hill	316,149	Apr. 21	1027	425	31	308
Coupling for straps, &c.	P. R. Gottstein	318,369	May 19	1928	520	31	885
Coupling hook and loop	C. P. Harris and S. Baltaly	310,274	Jan. 6	152	42	30	30
Cover. Culinary	G. H. Henkel	314,244	Mar. 24	1026	430	30	1105
Cover for chamber-pails, &c.	A. Judson	312,998	Feb. 24	2086	569	30	757
Cover for chamber-vessels	J. S. Davison	329,441	Nov. 3	20	6	33	508
Cover for cooking kettles and utensils	L. M. Goodale	313,320	Mar. 3	408	102	30	851
Cover for culinary vessels	R. F. Schimper and C. F. W. Siedhof.	310,468	Jan. 6	386	107	30	75
Cover for varnish-kettles	D. R. Hostetter	312,854	Feb. 24	1900	531	30	724
Cover. Pot	I. A. Lyon	322,189	July 14	1064	276	32	202
Cover. Pot and kettle	W. L. Brown	311,289	Jan. 27	1521	414	30	300
Cover. Ventilating	R. J. Smith	316,843	Apr. 28	2585	676	31	468
Covering, measuring, and cutting off strips, &c. Machine for	W. Croal	323,119	July 28	2329	617	32	442
Cow-milkers. Protector for	H. A. Thompson	317,045	May 5	146	37	31	549
Cow-tail holder	H. F. Jacobs	319,263	June 2	400	106	31	1123
Cracker can	C. E. Pierce	316,480	Apr. 28	2079	544	31	395
Cracker-machine	W. H. Bromley and P. J. Gately	323,848	Aug. 4	697	108	32	636
Cracker-machine feed-rollers. Adjustable scraper for	W. C. Bromley and P. J. Gately	324,520	Aug. 18	1533	423	32	822
Crackers for packing. Machine for arranging	J. McClurg	326,769	Sept. 22	2085	544	32	1420
Crackers. Machine for packing	J. McClurg	320,946	June 30	2710	719	31	1574
Cradle	G. H. Neal	325,960	Sept. 8	985	250	32	1204
Cradle	A. D. Post	315,165	Apr. 7	247	60	31	4
Cradle	C. Streit	332,564	Dec. 15	1920	502	33	135
Cradle. Folding	J. H. Lace	318,751	May 26	2439	653	31	996
Cradle. Grain	W. B. Smith	322,885	July 21	1096	528	32	370
Cradle. Infants	J. A. Jackson and F. C. Hannahs	315,025	Apr. 14	907	238	31	169
Cradle-rocker. Automatic	E. Anderson	320,833	June 23	2552	676	31	1539
Cranberries. Apparatus for gathering	W. C. Trahern	319,352	June 2	506	138	31	1144
Cranberry-gatherer	D. Lambert	331,963	Dec. 8	1093	284	33	1903
Crane	J. Hollingsworth	324,695	Aug. 18	1766	487	32	866
Crane	J. Sutherland	328,081	Oct. 13	753	196	33	142
Crane and derrick	W. S. Doan	329,148	Oct. 27	2208	572	33	422
Crane. Traveling	E. Samuel	329,210	Oct. 27	2311	598	33	442
Cranes and other hoisting apparatus. Transmitting power to	H. Young	314,906	Mar. 31	2544	673	30	1299
Cranes. Swinging	H. G. Hubert	314,675	Mar. 31	2209	587	30	1288
Cranes. System of traveling transfer	W. Lowe	310,449	Jan. 6	367	102	30	71
Crank for engines	J. L. Bogert	325,489	Sept. 1	366	89	32	1085
Crank-lubricator	G. A. Porter	317,191	May 5	363	90	31	589
Crank or eccentric. Variable	W. H. De Valin	312,709	Feb. 24	1707	469	30	690
Crank-pin	W. G. Dodd	313,481	Mar. 10	617	160	30	900
Crank-pin lubricator	F. F. Swain	313,964	Mar. 17	1275	333	30	1030
Crank-shaft journals. Apparatus for straightening	J. H. Thomas	317,593	May 12	895	229	31	693
Crane	E. F. Barton	332,376	Dec. 15	1658	435	33	1308
Crane	G. Wilkin	332,853	Dec. 22	2321	615	33	1432
Crane. Folding	W. H. Cadwell	328,381	Oct. 13	1145	295	33	216
Crane. Folding	W. C. Doubleday	333,000	Dec. 22	2536	668	33	1472
Crane. Folding	E. B. Young	324,629	Aug. 18	1674	462	32	849
Crane for fruit, &c.	W. F. Redding	330,620	Nov. 17	1591	426	33	825
Crane for fruit, &c.	I. B. Seeley	310,730	Jan. 13	732	199	30	145
Crane. Fruit	I. S. Platt	323,526	Aug. 4	189	55	32	557
Cravat-fastener	J. Adams	327,216	Sept. 29	2703	703	32	1536
Crayon and eraser holder for blackboards	I. W. Barnhart	328,177	Oct. 13	874	227	33	165
Crayons. Composition for	J. J. Sleeper and H. A. Johns	320,009	June 16	1428	331	31	1324
Cream, egg, and liquor mixer	R. M. Eastman	330,829	Nov. 17	1860	502	33	876
Cream of tartar. Manufacture of	R. Silberberg	313,629	Mar. 10	803	30	935	
Cream-testing device	N. S. Andrews and J. M. Burnap	316,860	Apr. 28	2609	680	31	498
Cream-transportation tank	C. D. Elder. (Reissue)	10,643	Sept. 1	560	144	32	1122
Creamer and refrigerator. Combined	F. W. Moseley	330,845	Nov. 17	1882	509	33	879
Creamer. Cabinet	T. S. Van Devort	318,402	May 19	1975	531	31	903
Creamer. Centrifugal	H. Beimling	327,756	Oct. 6	328	84, 85	32	58
Creamer. Centrifugal	N. Jacobsen and H. P. Jensen	315,628	Apr. 14	910	239	31	169
Creamer. Centrifugal	O. Lamm, Jr.	327,090	Sept. 29	2541	662	32	1508
Creamer. Centrifugal	H. Pape	319,307	June 2	451	122	31	1133
Creamer. Vacuum	N. B. Blackmer	325,482	Sept. 1	357	87	32	1063
Creaming-can	F. G. Butler	321,340	June 30	3211	856	31	1607
Creaming-can	G. S. Frazer	313,310	Mar. 3	397	90	30	849
Creaming-can	D. Fuller	321,354	June 30	3234	862	31	1671
Creaming-can	H. Haak	326,426	Sept. 15	1610	410	32	1327
Creaming-can	H. Kelsey	317,544	May 12	834	214	31	692
Creaming-can	G. W. Millner	321,744	July 7	446	118	32	82

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. k.	Vol.	Page.
Creaming-can	H. F. Newell	320,385	June 16	1978	520	31	1423
Creaming-cans. Skimming device for	P. A. Collier	323,297	July 28	2587	687	32	493
Cremation-furnace	C. J. Eames	331,779	Dec. 8	797	202	33	1148
Cresting. Adjustable	C. Hanika	318,108	May 19	1584	424	31	831
Crib	F. W. Clark	329,016	Oct. 27	2022	524	33	290
Crib	J. A. Healey	318,111	May 19	1588	424	31	832
Crib	F. A. Tyler	328,157	Oct. 13	845	220	33	160
Crib and chair. Combined	E. E. Matthews	325,685	Sept. 8	622	158	32	1137
Crib. Folding	G. Mazergue	322,947	July 28	2086	545	32	402
Crib. Folding	M. E. Woodward	320,830	June 23	2549	675	31	1538
Crib, settee and lounge.	S. Hale	320,651	June 23	2334	617	31	1496
Cribbage-board	C. W. Le Count	321,509	July 7	132	35	32	96
Crimping-machine	C. M. Kimball	331,795	Dec. 8	816	907	33	1151
Crinkle	J. W. Greene	310,414	Jan. 6	330	90	30	64
Crock-rims. Machine for making	H. E. Merrill	310,706	Jan. 13	703	192	30	130
Cross-heads. Device for removing	C. A. Mackay	311,789	Feb. 3	401	109	30	423
Cross-over switch	N. Cort	332,641	Dec. 15	2028	532	33	137
Crucible-furnace	T. McBride, F. B. Smith, and A. J. Lennox	323,876	Aug. 4	633	179	32	643
Crucible-furnace crane	L. W. Mallasee and F. B. Nimick	310,695	Jan. 13	688	189	30	137
Crusher:							
See Clay-crusher.	Seed-crusher.						
Clod-crusher.	Seed and grain crusher.						
Ore-crusher.	Stone and ore crusher.						
Rock-crusher.							
Crushing and grinding machine.	J. W. Anthoine	319,166	June 2	222	74	31	1099
Crushing and grinding mill	W. C. Stiles	326,253	Sept. 15	1392	762	32	1265
Crushing and pulverizing mill	J. Cherney	316,331	Apr. 21	1856	491	31	349
Crushing machine	A. Higley	329,553	Nov. 3	181	48	33	539
Crushing-mill	F. A. Huntington	325,804	Sept. 8	795	200	32	1108
Crushing-mill	E. M. Villeroz	318,670	May 26	2333	623	31	977
Crushing-mill. Centrifugal	F. A. Huntington	318,117	May 19	1595	426	31	833
Crushing-roll	H. J. Chapin	321,007	June 30	2796	743	31	1590
Crushing-roll	E. A. Wall	332,978	Dec. 22	2493	639	33	1465
Crutch	J. R. Brooks	320,621	June 23	2229	607	31	1489
Crutch	L. Ladomus	332,908	Dec. 22	2260	596	33	1422
Crutch	F. A. Peebles	313,518	Mar. 10	664	172	30	909
Crutch	J. W. Tuttle	332,624	Dec. 15	2093	550	33	1284
Cube. Aggregate	H. Keeler	332,256	Dec. 15	1494	391	33	1279
Cuff	R. Butterworth	329,813	Nov. 3	523	133	33	603
Cuff	W. Frank	319,219	June 2	343	92	31	1112
Cuff-adjuster	L. A. Stillwagon	333,485	Dec. 29	3200	836	33	1594
Cuff and button holder. Combined	D. W. Brown	311,286	Jan. 27	1519	414	30	300
Cuff and sleeve holder and adjuster	J. D. Sourwine and J. A. Carpenter	312,032	Feb. 10	778	212	30	500
Cuff-fastener	J. J. Fay	312,109	Feb. 10	872	239	30	519
Cuff-fastener	G. C. Paine	319,015	June 2	103	28	31	1067
Cuff-fastener	J. V. Pilcher	329,207	Oct. 27	2295	594	33	438
Cuff-holder	S. T. Atkin and W. L. Steele	330,282	Nov. 10	1147	305	33	732
Cuff-holder	D. W. Brown	323,559	Aug. 4	233	66	32	565
Cuff-holder	D. Greenboot	330,692	Nov. 17	1685	455	33	644
Cuff-holder	L. W. T. Lodge	319,280	June 2	417	111	31	1127
Cuff-holder	A. Schiffing	323,449	Aug. 4	85	25	32	538
Cuff-holder	C. C. Shelby	320,404	June 16	2008	527	31	1488
Cuff-holder	E. Smith	331,335	Dec. 1	109	26	33	1012
Cuff-retainer	J. M. Hawley	333,297	Dec. 29	2956	772	33	1553
Cuff-retainer	W. L. Weatherly	328,735	Oct. 20	1625	423	33	311
Culinary beater	E. Baltzley	332,375	Dec. 15	1655	434	33	1308
Culinary boiler	C. W. Geer	316,257	Apr. 21	1761	463	31	332
Culinary vessel	T. G. Beaham	310,639	Jan. 13	613	169	30	123
Culinary vessel	G. H. Ziph	315,989	Apr. 14	1404	364	31	260
Culm-bar	S. M. Hess	325,237	Sept. 8	835	209	32	1175
Culm-conveyer	R. Y. Mitchell	326,445	Sept. 15	1639	427	32	1331
Culm. Transporting and sorting	R. Y. Mitchell	326,446	Sept. 15	1633	427	32	1331
Cultivator	H. M. Abbercrombie	330,864	Nov. 24	1913	519	33	893
Cultivator	J. Q. Adams	331,365	Dec. 1	153	39	33	1026
Cultivator	J. T. Atterbury	317,277	May 5	473	119	31	609
Cultivator	R. H. Avery and L. B. Berrien	329,502	Nov. 3	505	129	33	801
Cultivator	T. C. Baker	325,477	Sept. 1	351	85	32	1082
Cultivator	D. W. Bash	327,754	Oct. 6	327	84	33	57
Cultivator	S. B. Bell	325,723	Sept. 8	686	171	32	1148
Cultivator	J. P. Black	313,647	Mar. 17	1109	288	30	1000
Cultivator	J. T. Bond	324,215	Aug. 11	1112	301	32	737
Cultivator	D. W. Bovee	329,707	Nov. 3	380	97	33	577
Cultivator	T. L. Brooks	332,044	Dec. 8	1185	310	33	1219
Cultivator	P. C. Brown and T. P. Bragg	330,467	Nov. 17	1409	374	31	789
Cultivator	D. Brunson	316,942	May 5	15	4	3	525
Cultivator	E. F. Bunn	323,907	Aug. 11	681	191	32	658
Cultivator	G. Carrothers	330,677	Nov. 17	1662	448	33	840
Cultivator	L. C. Chamberlin	333,280	Dec. 29	2931	767	33	1548
Cultivator	L. E. Chapin	329,888	Nov. 10	636	162	33	631
Cultivator	G. M. Clark	330,960	Nov. 24	2042	552	33	917
Cultivator	A. Cox	330,211	Nov. 10	1059	276	33	715
Cultivator	W. Cox	328,193	Oct. 13	891	231	32	169
Cultivator	R. Cracraft	311,645	Feb. 3	245	69	30	396
Cultivator	A. J. Craig	313,811	Mar. 10	1050	269	30	981
Cultivator	T. H. Crooks	329,819	Nov. 3	530	135	33	605
Cultivator	C. Doormann	320,051	June 16	1480	390	31	1334
Cultivator	F. M. Everingham	316,886	Apr. 28	2638	687	31	498
Cultivator	R. H. Ewing	310,206	Jan. 13	826	224	30	162
Cultivator	J. Feast, Sr.	311,303	Jan. 27	1537	418	30	303
Cultivator	G. W. Forbes	326,208	Sept. 15	1324	343	32	1273
Cultivator	J. J. Fraikin	330,687	Nov. 17	1675	452	33	848

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cultivator	J. H. Frazee	331,048	Nov. 24	2140	580	33	936
Cultivator	J. U. Gillespie	318,178	May 19	1671	448	31	848
Cultivator	J. A. Hahn	313,589	Mar. 10	753	199	30	926
Cultivator	J. Harman	310,586	Jan. 13	550	152	30	112
Cultivator	P. J. Hostetler, O. C. Bower, and E. M. Hopwood	311,832	Feb. 3	479	131	30	439
Cultivator	C. C. Hunter	331,885	Dec. 8	951	246	33	1176
Cultivator	W. H. Hunter	333,227	Dec. 29	2858	747	33	1535
Cultivator	E. Johnson	324,320	Aug. 18	1341	365	32	728
Cultivator	J. H. Jones	316,369	Apr. 21	1909	505	31	358
Cultivator	F. Kemper and J. H. Stumpe	314,136	Mar. 17	1497	390	31	1071
Cultivator	J. Lane	310,289	Jan. 6	170	47	30	33
Cultivator	J. Lane	314,143	Mar. 17	1503	392	30	1073
Cultivator	G. W. Lepper	324,265	Aug. 11	1176	319	32	749
Cultivator	S. B. Little	320,147	June 16	1612	422	31	1357
Cultivator	J. M. W. Long	329,919	Nov. 10	669	171	33	637
Cultivator	J. Macphail	330,794	Nov. 17	1817	489	33	867
Cultivator	W. G. Martin	313,355	Mar. 3	449	114	30	859
Cultivator	M. F. McCray	318,922	May 26	2670	708	31	1037
Cultivator	T. W. McDill	332,813	Dec. 22	2264	597	33	1423
Cultivator	M. T. McGee	317,400	May 5	635	162	31	638
Cultivator	T. Meikle	312,489	Feb. 17	1414	390	30	626
Cultivator	L. D. Monroe and G. W. Wiggins	330,341	Nov. 10	1220	326	33	747
Cultivator	J. B. Morrison	332,355	Dec. 15	1630	427	33	1303
Cultivator	S. A. Moulton	316,164	Apr. 21	1647	431	31	312
Cultivator	S. A. Moulton	325,432	Sept. 1	291	72	32	1071
Cultivator	O. L. Neisler	324,720	Aug. 18	1792	494	32	871
Cultivator	J. C. Nelson	319,609	June 9	877	232	31	1219
Cultivator	W. H. Newton	313,758	Mar. 10	981	253	30	968
Cultivator	J. F. Packer	323,440	Aug. 4	71	19, 20	32	536
Cultivator	M. B. Parks	311,912	Feb. 10	606	166	30	469
Cultivator	W. S. Pates	329,590	Nov. 3	227	59	33	549
Cultivator	J. R. Peirce	310,847	Jan. 13	876	237	30	171
Cultivator	O. S. Presbrey and A. Nall	312,382	Feb. 17	1264	349	30	599
Cultivator	G. W. Rice	331,913	Dec. 8	990	256	33	1123
Cultivator	J. C. Rosebaugh	332,165	Dec. 8	1368	354	33	1250
Cultivator	H. H. Sater	333,123	Dec. 29	2766	725	33	1518
Cultivator	H. C. Stahl	331,738	Dec. 1	742	186	33	1129
Cultivator	F. Stange and T. Staebler	311,268	Jan. 27	1484	407	30	294
Cultivator	O. P. Sowers	333,228	July 28	2481	659	32	475
Cultivator	J. A. Torrence and D. B. Jernigan	316,313	Apr. 21	1532	492	31	345
Cultivator	W. H. Traphagen	327,358	Sept. 29	2884	755	32	1570
Cultivator	S. F. Weaver	315,865	Apr. 14	1230	321	31	230
Cultivator	S. F. Weaver	315,866	Apr. 14	1232	321	31	230
Cultivator	W. S. Weir	320,519	June 23	2160	570	31	1464
Cultivator	W. S. Weir	324,904	Aug. 25	2054	562	32	927
Cultivator	J. Wherry, Jr.	311,931	Feb. 10	629	173	30	474
Cultivator	C. Whitehall	330,761	Nov. 17	1779	479	33	861
Cultivator	E. E. Whipple	314,767	Mar. 31	2333	623	30	1266
Cultivator	E. E. Whipple	319,871	June 9	1225	323	31	1240
Cultivator	A. Wilhelm	320,607	June 23	2276	602	31	1486
Cultivator	G. W. Wilson	314,094	Mar. 17	1438	376	30	1061
Cultivator and furrower. Wheel	I. Libbey	331,413	Dec. 1	232	60, 61	33	1039
Cultivator and harrow	D. Walls	331,589	Dec. 1	522	126	33	1069
Cultivator and hoe combined. Cotton	R. L. Warthen	320,731	June 23	2430	544	31	1515
Cultivator and land-marker. Combined	B. F. Birkett	331,028	Nov. 24	2119	674	33	932
Cultivator and plow. Combined	D. W. Bricker	324,219	Aug. 11	1116	302	32	737
Cultivator and pulverizer. Rolling	J. G. Bradley	323,268	July 28	2626	671	32	484
Cultivator and seed dropper or planter combined	J. M. Alexander	324,208	Aug. 11	1103	298	32	735
Cultivator and seeder frame	G. D. Rowell	320,790	June 30	2749	731	31	1581
Cultivator and seeder teeth. Attachment for	H. O. Lewis	310,200	Jan. 6	171	48	30	34
Cultivator and weed-cutter	S. E. A. Palmer	314,873	Mar. 31	2497	662	30	1292
Cultivator and weed-cutter. Combined	L. B. Hogue	327,683	Oct. 6	248	61	33	43
Cultivator attachment	W. I. Fish	311,970	Feb. 10	695	180	30	484
Cultivator attachment	R. R. Lomax	317,392	May 5	624	159	31	637
Cultivator attachment	J. E. Mitchell	312,574	Feb. 17	1532	418	30	649
Cultivator attachment	L. Theis	320,974	June 30	2767	735	31	1524
Cultivator attachment	J. E. Walker	316,065	Apr. 21	1533	400	31	291
Cultivator. Corn	A. J. Sweeney	311,689	Feb. 3	301	82	30	405
Cultivator. Cotton	N. R. H. Burnet	318,415	May 19	1988	535	31	906
Cultivator. Cotton	J. H. Fowles	328,397	Oct. 13	1164	300	33	220
Cultivator cotton-chopper attachment	H. Henriksen	327,681	Oct. 6	245	60	33	43
Cultivator-coupling	J. Goodnough	318,243	May 19	1756	469	31	864
Cultivator for listed corn	J. C. McCandless and O. King	330,143	Nov. 10	977	254	33	699
Cultivator. Garden	P. D. Graham	331,960	Dec. 8	1059	275	33	1197
Cultivator-gearing	F. L. Holcomb	320,787	June 23	2499	661	31	1529
Cultivator. Grain	A. Lowry	325,549	Sept. 1	449	112	32	1101
Cultivator. Hand	J. J. Butler	312,185	Feb. 10	996	271	30	540
Cultivator. Harrow	W. H. Tuttle and R. W. Benedict	312,531	Feb. 17	1477	404	30	637
Cultivator-harrow attachment	C. R. Davis	315,132	Apr. 7	190	47	31	35
Cultivator. Listing	J. P. Black	329,530	Nov. 3	148	37	33	533
Cultivator plant-shield	D. Cramer	322,524	July 21	1509	397	32	290
Cultivator. Revolving	J. T. Campbell	329,137	Oct. 27	2193	569	33	420
Cultivator. Rotary	J. L. Laughlin	323,163	July 28	2385	632	32	458
Cultivator. Rotary	J. L. Laughlin	323,164	July 28	2388	633	32	458
Cultivator running-gear	F. G. Bright	322,411	July 21	1349	351	32	262
Cultivator scraper attachment	G. L. Baker	310,974	Jan. 20	1061	288	30	208

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Page.	Vol.	Page.
Cultivator-shovel	W. Kinne and J. Kastner	333,156	Dec. 8	1357	352	33	1248
Cultivator-shovel	S. Langford	324,850	Aug. 25	1980	544	32	914
Cultivator-shovel. Adjustable	M. A. Twitchell	310,856	Jan. 13	885	240	30	173
Cultivator-spring	J. Goodnough	316,140	Apr. 21	1616	423	31	306
Cultivator-spring-hoe	S. N. Hench and W. A. Dromgold	310,821	Jan. 13	845	221	30	166
Cultivator. Sulky	E. F. Husk	310,828	Jan. 13	853	231	30	167
Cultivator. Sugar-cane	E. Wiard	327,633	Oct. 6	179	44	33	32
Cultivator. Tongueless	M. G. Graham	324,834	Aug. 25	1958	537	32	909
Cultivator. Tongueless	P. P. Mast, G. W. Startzman, and D. L. Clark	312,738	Feb. 24	1747	480	30	697
Cultivator. Tongueless	E. E. Whipple	312,050	Feb. 10	795	217	30	504
Cultivator-tooth	A. G. Anderson	315,879	Apr. 14	1252	327	31	223
Cultivator-tooth	J. T. Bond	332,585	Dec. 15	1955	512	33	1359
Cultivator-tooth	G. Carrothers	317,971	May 19	1406	377	31	798
Cultivator-tooth	F. M. Helms and C. C. Trinkle	317,780	May 12	1138	301	31	739
Cultivator-tooth holder	J. F. Wheeler	323,004	July 28	2170	576	32	418
Cultivator. Wheel	W. P. Brown	312,425	Feb. 17	1322	365	30	610
Cultivator. Wheel	W. P. Brown	326,200	Sept. 15	1309	339	32	1271
Cultivator. Wheel	F. Hammers	315,277	Apr. 7	412	102	31	75
Cultivator. Wheel	E. P. Lynch	329,921	Nov. 10	671	172	33	637
Cultivator. Wheel	H. G. Swope and J. R. Rude	321,399	June 30	3296	680	31	1683
Cultivator. Wheel	G. W. and S. Taylor	312,228	Feb. 10	1048	287	30	549
Cultivators, &c. Guiding device for	S. P. Hutchinson	320,473	June 23	2101	554	31	1453
Cultivators. Shovel-fastener for	G. W. Lilly	325,421	Sept. 1	277	68	32	1068
Cup.							
See Artist's palette-cup. Oil-cup. Grease-cup. Sponge-cup. Lubricating-oil cup.							
Cupboard or kitchen-cabinet	W. T. McClure	327,701	Oct. 6	266	67	33	47
Cupola-furnace	J. J. Johnston	312,727	Feb. 24	1730	475	30	694
Cupola-furnace	J. H. Whiting	324,623	Aug. 18	1667	460	32	847
Cupola-furnace and converter. Combined	M. Lysett	328,042	Oct. 13	695	183	33	133
Cupola-furnace having sectional water-jackets	E. Probert	320,586	June 23	2249	595	31	1481
Curb and gutter. Street	G. D. Sutton	329,342	Oct. 27	2492	643	33	475
Curb and gutter. Street	G. D. Sutton	329,344	Oct. 27	2495	643	33	476
Curb. Street	G. D. Sutton	329,343	Oct. 27	2493	643	33	475
Current-meter	W. G. Price	325,011	Aug. 25	2197	602	32	953
Current-motor. Floating	W. Main	327,888	Oct. 6	487	127	33	86
Current-motor. Floating	W. Main	327,889	Oct. 6	490	128	33	87
Current-motor. Floating	W. Main	328,496	Oct. 20	1286	334	33	250
Current-motor. Floating	W. Main	328,497	Oct. 20	1288	335	33	251
Current-motor. Floating	W. Main	328,593	Oct. 20	1423	370	33	274
Current-wheel	W. J. McGavock	330,503	Nov. 17	1450	388	33	797
Current-wheel	A. R. Nellis	331,996	Dec. 8	1109	288	33	1205
Curry-comb	A. C. Decker	323,451	Dec. 29	3154	825	33	1586
Curry-comb	W. T. Gill	316,138	Apr. 21	1615	422	31	306
Curry-comb	J. W. Gridley	317,341	May 5	564	144	31	626
Curry-comb	W. P. Kellogg	327,695	Oct. 6	280	65	33	46
Curry-comb	W. E. Lawrence	330,593	Nov. 17	1556	417	33	818
Curtain. Adjustable window	W. McManes and J. C. Losee	331,901	Dec. 8	971	251	33	1180
Curtain and material therefor. Flexible	H. S. Hale	333,408	Dec. 29	3098	807	33	1577
Curtain-bar bracket	T. R. Hyde, Jr.	319,908	June 9	1279	337	31	1290
Curtain-cabinet	B. Vallett	330,645	Nov. 17	1620	436	33	631
Curtain-cord holder	M. M. Moore	319,298	June 2	440	118	31	1131
Curtain-fastener	G. P. Bower	325,491	Sept. 1	369	90	32	1066
Curtain-fixture	R. R. Brouner	327,378	Sept. 29	2990	761	32	1574
Curtain-fixture	A. C. F. Grimm	330,579	Nov. 17	1541	412	33	814
Curtain-fixture	J. A. Illingworth	315,789	Apr. 14	1131	296	31	212
Curtain-fixture	W. C. Kelly	332,907	Dec. 22	2404	635	33	1448
Curtain-fixture	L. A. Mallory	327,287	Sept. 29	2792	796	32	1553
Curtain-fixture	J. M. Nickel	312,886	Feb. 24	1943	539	30	731
Curtain-fixture	L. Page and L. Weber. (Reissue)	10,662	Nov. 17	1910	517	33	885
Curtain-fixture	L. Page and L. Weber.	332,104	Dec. 8	1278	332	33	1235
Curtain-fixture	F. Root	324,950	Aug. 25	2125	581	32	941
Curtain-fixture	M. H. Sly	327,631	Oct. 6	425	110	33	75
Curtain-fixture	P. Von Lackum	312,532	Feb. 17	1479	404	30	638
Curtain-fixture. Spring-balance	W. N. Buckley	310,557	Jan. 13	511	141	30	104
Curtain-fixture. Spring-roller	E. B. Carey	322,347	July 14	1257	329	32	209
Curtain guide. Window	F. B. Snook and D. Death	326,799	Sept. 29	2138	556	32	1429
Curtain-holder	N. Wilson	333,045	Dec. 22	2598	680	33	1483
Curtain. Lace	J. F. Forth	333,062	Dec. 22	2538	669	33	1473
Curtain pole and fixture	O. F. Schumann	320,054	June 16	1540	407	31	1245
Curtain-pole bracket	R. S. Gould	310,069	June 2	192	51	31	1053
Curtain-pole end	W. K. Pine	323,072	July 28	2269	600	33	696
Curtain-pole joint	R. S. Gould	317,339	May 5	562	143	31	638
Curtain-pole joint	J. Munger	333,476	Dec. 29	3190	533	33	1592
Curtain-pole joint	J. Spruce	327,834	Oct. 6	428	111	33	75
Curtain-pole knob	D. B. Olmstead	310,712	Jan. 13	710	193	30	141
Curtain-poles. Extension-bracket for	W. H. Edsall	311,237	Jan. 27	1440	393	30	285
Curtain-ring fastening	J. H. Tucker and A. Godfrey	312,233	Feb. 10	1054	290	30	551
Curtain-roller. Spring	P. E. Malmström	324,135	Aug. 11	984	271	32	714
Curtain roller. Window	G. W. Eddy	310,658	Jan. 13	637	176	30	137
Curtain-stretcher	A. P. Bohlinger	328,378	Oct. 13	996	259	33	188
Curtain-stretcher	L. E. Lafferty	331,305	Dec. 1	67	16	33	1011

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Curtain-stretcher	E. Sweitzer	319,345	June 2	500	136	31	1143
Curtain-supporter	A. H. Gerdum	321,892	July 7	662	172	32	121
Curtain. Window	F. H. Goodyer	332,604	Dec. 15	1980	518	33	1363
Curtains to rollers. Device for attaching	J. Rösch	320,290	June 16	1809	480	31	1391
Cushion:							
See Billiard-table cushion. Prop-block cushion.							
ion. Water-pipe cushion.							
Pincushion.							
Cushion for the feet	J. J. Georges	326,728	Sept. 22	2042	531	32	1412
Cuspidor	D. M. Ireland	317,364	May 5	589	152	31	631
Cuspidor	M. H. Leveille	332,094	Dec. 8	1262	322	33	1232
Cuspidor	O. W. Smith	332,016	Dec. 8	1136	297	33	1210
Cuspidor	H. Strait	317,039	May 5	140	36	31	548
Cuspidor	J. J. Walton	317,251	May 5	439	110	31	603
Cuspidor and dust-trap	P. H. Deis and S. W. Croxton	323,122	July 28	2333	619	32	448
Cuspidor and dust-trap	P. H. Deis and S. W. Croxton	332,330	Dec. 15	1588	417	33	1296
Cuspidor for railway-cars	J. J. Enright and D. J. May	331,692	Dec. 1	674	167	33	1117
Cut-off	F. Schueler	325,449	Sept. 1	318	77	32	1076
Cut-off and reversing gear	H. H. Meyer	311,775	Feb. 3	409	111	30	425
Cut-off. Automatic	G. W. Parker	316,386	Apr. 21	1931	510	31	362
Cut-off. Automatic	P. Sears	331,452	Dec. 1	282	77	33	1049
Cut-off. Automatic electrical	E. Gannaway	313,313	Mar. 3	401	99	30	850
Cut-off. Cistern	G. W. and W. Lawhon	330,410	Nov. 17	1332	355	33	774
Cut-off device for flexible tubes or hose	A. E. Dart	318,091	May 19	1561	418	31	826
Cut-off for bath-boilers. Anti-freezing non-exploding	W. C. Ellis	332,387	Dec. 15	1673	438	33	1311
Cut-off for cisterns	J. S. Heaton	312,120	Feb. 10	891	243	30	522
Cut-off for engines. Electro-magnetic	R. A. Bailey	331,674	Dec. 1	645	159	33	1111
Cut-off for hose-nozzles	L. B. Smith	310,326	Jan. 6	228	62	30	43
Cut-off for hydraulic and other engines	L. B. Tubbs	329,417	Oct. 27	2608	473	33	496
Cut-off gear for steam-engines	J. Young	330,361	Nov. 10	1261	335	33	754
Cut-off mechanism. Valve	J. Dow	310,180	Jan. 6	40	11	30	10
Cut-off rain-water spout for cisterns. Filtering	J. E. Burdge	326,945	Sept. 29	2350	614	32	1474
Cut-off valve	H. Burton	318,597	May 26	2240	600	31	959
Cut-off valve	C. Harmon	322,711	July 21	1751	463	32	335
Cut-off valve	B. G. Martin	313,069	Mar. 3	64	17, 18	30	789
Cut-off valve	P. O. Solle	327,902	Oct. 6	509	132	33	91
Cut-off valve	G. H. Reynolds	310,318	Jan. 6	213	57, 58	30	40
Cut-off valve for engines	H. J. Oliver	323,065	July 28	2260	597	32	433
Cut-off valve for engines	G. W. Price	324,593	Aug. 18	1611	443	32	838
Cut-off-valve gear	W. C. Champlain	317,999	May 5	503	122	31	615
Cut-off-valve gear	J. D. Cité	332,381	Dec. 15	1664	436	33	1309
Cut-off-valve gear	E. C. Dacey	322,264	July 14	1151	300	32	219
Cut-off-valve gear	J. J. Holland	332,397	Dec. 15	1685	441	33	1313
Cut-off-valve gear	J. W. McFarland	310,903	Jan. 20	950	259	30	190
Cut-off-valve gear	J. B. Pitchford	310,310	Jan. 6	198	54	30	38
Cut-off-valve gear	C. H. Roberts	315,664	Apr. 14	952	249	31	178
Cut-off-valve gear	G. Schuhmann	321,538	July 7	184	49	32	36
Cut-off-valve gear. Automatic	G. Danby	317,979	May 19	1413	379	31	800
Cut-off valve. Rotary	A. Nelson	332,101	Dec. 8	1272	330	33	1234
Cut-off valve. Steam	G. W. Anderson	317,009	May 12	919	235	31	693
Cutlery-handles. Forming	W. Lorenz	317,393	May 5	625	159	31	637
Cutlery-handles. Making	R. Wallace	323,240	July 28	2496	663	32	478
Cutter:							
See Axle-cutter. Hay or straw cutter.							
Band-cutter. Hog-snout cutter.							
Bark-cutter. Malt-cutter.							
Boiler-tube cutter. Meat-cutter.							
Bolt-cutter. Milling-cutter.							
Bread-cutter. Mortise-cutter.							
Bung-cutter. Paper-cutter.							
Bung-hole cutter. Pipe-cutter.							
Button-hole cutter. Rod-cutter.							
Capsule-cutter. Rod and bolt cutter.							
Caramel-cutter. Rotary cutter.							
Check-cutter. Shoe-nail cutter.							
Cheese-cutter. Sod-cutter.							
Cigar-cutter. Sprue-cutter.							
Cigar-butt cutter. Stalk-cutter.							
Cigar-tip cutter. Stalk and cane cutter.							
Cigar-wrapper cutter. Stalk and clod cutter.							
ter. Straw-cutter.							
Clay-cutter. Tailor's chalk-cutter.							
Corn-cutter. Thread-cutter.							
Edging-cutter. Ticket-cutter.							
Ensilage-cutter. Tobacco-cutter.							
Fat cutter. Tobacco-plant cutter.							
Feed-cutter. Tube-cutter.							
Fuse-cutter. Vegetable-cutter.							
Gear-cutter. Washer-cutter.							
Glass-tube cutter. Wedge-cutter.							
Hay and straw cutter. Wick-cutter.							
Cutter-head	T. Fitzsimmons	310,571	Jan. 13	529	145	30	107
Cutter-head	B. R. Hand	323,673	Aug. 4	381	109	32	594
Cutter-head	B. R. Hand	327,392	Sept. 29	2938	766	32	1778
Cutter-head	F. Holland	326,983	Sept. 29	2392	626	32	1462
Cutter-head	A. Hoppins	331,970	Dec. 8	1070	278	33	1199

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Cutter-head	J. Loar	321,228	July 7	583	151	32	107
Cutter-head	J. B. Mahaffey	321,378	June 30	3266	873	31	1678
Cutter-head	E. C. Mershon	329,756	Nov. 3	447	113	33	589
Cutter-head	E. K. Patten	335,260	Nov. 10	1115	297	33	726
Cutter-head	S. W. Putnam and W. A. Foster	324,041	Aug. 11	857	238	32	690
Cutter-head	J. A. Roberts	311,679	Feb. 3	285	79	30	403
Cutter-head	S. J. Shimer	319,933	June 9	1315	347	31	1296
Cutter-head fastening	W. H. Gray	321,596	July 7	257	68	32	49
Cutter-head for rifling-machines	W. H. Davenport and J. W. Day	315,130	Apr. 7	188	46	31	34
Cutter-head gage	S. J. Shimer	319,751	June 9	1052	278	31	1251
Cutter-head. Rabbeting	P. A. Buell	318,596	May 26	2239	599	31	950
Cutting and marking. Convertible implement for	I. M. Pribyl	312,292	Feb. 17	1150	314	30	577
Cutting bifurcated garments	J. C. Tracey	330,073	Nov. 10	888	230	33	680
Cutting, chipping, &c. Machine for	G. R. Cullingworth	328,197	Oct. 13	895	232	33	170
Cutting device. Fabric	F. R. Lewis	313,349	Mar. 3	443	112	30	858
Cutting double pile fabrics. Machine for	R. C. Greenhalgh	323,667	Aug. 4	375	107	32	592
Cutting garments. Guide for use in	C. A. Tierney	322,402	July 14	1332	346	32	253
Cutting oars, &c. Machine for	F. Burckhardt	313,987	Mar. 17	1302	340	30	1035
Cutting-off tool	C. E. Billings	318,687	May 26	2352	628	31	960
Cutting-off tool	A. A. Wood	323,490	Aug. 4	123	36	32	544
Cyclometer	C. H. Lamson	320,145	June 16	1609	426	31	1356
Cylinder	H. M. L. Crouan	316,749	Apr. 28	2454	639	31	464
Cylinder and piston	H. M. Poor	318,499	May 26	2098	566	31	936
Cylinder engine. Multiple	D. D. Hardy	313,730	Mar. 10	940	243	30	961
Cylinder engine. Oscillating	W. J. Partridge	310,609	Jan. 13	577	159	30	117
Cylinder engine. Revolving	J. J. Blair	331,939	Dec. 8	1031	268	33	1192
Cylinder engine. Twin	J. L. Bogert	310,979	Jan. 20	1067	289	30	211
Cylinder-lubricator	S. Townsend	313,033	Feb. 24	2140	529	30	766
Cylinders. Forming teeth upon	O. T. Bugg	329,811	Nov. 3	521	133	33	603
Cylinders. Machine for boring	W. J. Muncaster	326,049	Sept. 8	1095	279	32	1224
Cylinders of water of condensation. Relieving	G. H. Poor	318,022	May 19	1471	394	31	810
Dam. Automatic	H. Harding	332,895	Dec. 22	2384	630	33	1444
Dam. Floating wing	H. P. Marvin and A. Arnold	313,747	Mar. 10	965	249	30	965
Dampening-machine	G. L. Shorey	320,977	June 30	2750	733	31	1583
Damper	R. Hillson	312,635	Feb. 24	1608	441	30	673
Damper	D. Manuel and G. H. Burrows	310,696	Jan. 13	689	199	30	137
Damper	J. M. Read	310,224	Jan. 6	79	21	30	17
Damper	J. P. Tuttle	323,376	July 28	2697	718	32	513
Damper	H. H. B. Vincent	322,403	July 14	1335	347	32	253
Damper	C. G. Zipf	330,955	Nov. 24	2036	550	33	916
Damper. Automatic	S. P. Smith	322,492	July 21	1468	386	32	283
Damper. Automatic	S. P. Smith	323,539	Aug. 4	207	61	32	561
Damper. Automatic stove	D. J. Dunn	319,449	Feb. 17	1353	373	30	617
Damper for shafts	E. F. Kittoe	329,832	July 21	1915	508	32	364
Damper for stove and other pipes	M. S. Burrough	329,346	July 14	1256	329	32	229
Damper for stove-pipes and flues	F. J. Gilman	314,121	Mar. 17	1477	385	30	1068
Damper mechanism. Clock for governing	J. A. Lakin	319,477	Feb. 17	1400	368	30	624
Damper mechanism. Time	J. A. Lakin and C. J. Emerson, Jr.	313,003	Feb. 24	2092	570	30	758
Damper-operating mechanism for heating apparatus	J. A. Lakin	322,186	July 14	1060	275	32	301
Damper-regulator	C. Ball and G. Lispenard	310,976	Jan. 20	1063	289	30	210
Damper-regulator	T. Evans	310,569	Jan. 13	526	144	30	107
Damper-regulator	J. C. Paige	324,270	Aug. 11	1162	321	32	750
Damper-regulator. Automatic	R. Beachman	329,995	Nov. 10	776	199	33	657
Damper-regulator. Automatic	J. Burge	315,904	Apr. 14	1291	336	31	240
Damper-regulator. Automatic	J. Burge	327,132	Sept. 29	2595	676	32	1517
Damper-regulator. Automatic	J. A. House and C. H. Dimond	310,943	Jan. 20	1016	274	30	200
Damper-regulator. Automatic	J. E. Spencer	327,337	Sept. 29	2660	746	32	1564
Damper-regulator. Electric	W. E. Facer	332,066	Dec. 8	1218	318	33	1224
Damper. Stove-pipe	J. H. Doherty	323,568	Aug. 4	244	71	32	567
Damper. Stove-pipe	J. Grimm	317,992	May 19	1431	383	31	803
Damper. Stove-pipe	H. B. Todd	317,046	May 6	147	38	31	549
Darnier and mender. Combined	G. F. Atkinson	320,995	June 30	2781	739	31	1586
Dash-board	P. M. Barnes	324,335	Aug. 18	1289	353	32	780
Dash-making machine	R. G. Wood	329,424	Oct. 27	2623	477	33	497
Dead-centers and starting fly-wheels. Device for overcoming	O. B. Thompson	327,355	Sept. 29	2889	754	32	1569
Dead-centers. Device for overcoming	S. T. Shortess	331,914	Dec. 8	992	257	33	1184
Dead-centers. Device for overcoming	O. B. Thompson	318,831	May 26	2551	679	31	1014
Dead until their burial. Safety apparatus for the preservation of the	R. Strauss	315,569	Apr. 14	833	219	31	155
Decorating shells	T. McCusker	320,947	June 30	2711	719	31	1574
Decoration. Fabric for	R. H. Thompson	311,388	Jan. 27	1656		30	325
Decoration. Fabric for	R. H. Thompson	311,389	Jan. 27	1657		30	329
Decorticating-machine	G. Gibson	312,837	Feb. 24	1880	515	30	721
Decoy	J. Danz, Jr.	311,877	Feb. 10	547	150	30	459
Demijohn	E. R. Emerson	321,012	June 30	2802	745	31	1591
Demijohn. Boxed	G. L. Solter	325,875	Sept. 8	881	222	32	1185
Demijohn or bottle	A. Hoerber	310,202	Jan. 6	56	15	30	13
Dental appliance for mixing amalgam	D. Genese	330,011	Nov. 10	799	205	33	661
Dental articulator	G. E. Smith	321,457	July 7	65	19	32	15
Dental-bracket case	J. H. Morrison	325,560	Sept. 1	462	115	32	1104
Dental breath-guard	C. C. Southwell	319,338	June 2	493	133	31	1142
Dental broaches, &c. Machine for barbing	R. B. Donaldson	327,437	Sept. 29	2891	782	32	1587
Dental chair	M. L. Long	320,606	June 23	2521	668	31	1533
Dental-chair attachment	G. A. Dille	328,659	Oct. 20	1527	397	33	292
Dental-chair head-rest	A. R. Merrick	333,010	Dec. 22	2563	674	33	1478

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'th	Vol.	Page.
Dental chairs. Electrical attachment for	C. A. Eisenhart	326,957	Sept. 29	2364	618	32	1477
Dental drill	R. M. Ross	310,467	Jan. 6	385	107	30	75
Dental engine	A. W. Eldredge	313,411	Mar. 3	519	136	30	874
Dental-engine angle attachment	W. A. Johnston and A. W. Browne	319,583	June 9	834	221	31	1211
Dental-engine angle attachment	C. D. Miller	319,110	June 2	218	57	31	1088
Dental-engine hand-piece coupling	A. W. Browne	326,942	Sept. 29	2346	614	32	1473
Dental-engine holder	C. H. Gilbert	318,177	May 19	1670	448	31	847
Dental file holder or carrier	H. E. Wales	315,575	Apr. 14	844	222	31	157
Dental impression-cup	A. Garner	310,407	Jan. 6	324	89	30	63
Dental instrument	R. B. Donaldson	318,173	May 19	1666	447	31	847
Dental instrument	R. B. Donaldson	322,265	July 14	1151	301	32	219
Dental instrument	J. Hood and S. H. Reynolds	321,814	July 7	552	145	32	102
Dental jaw-brace	W. J. Bickford	323,627	Aug. 4	326	93	32	583
Dental lip-holder	A. Garner	323,573	Aug. 4	248	73	32	568
Dental operations. Electrical apparatus for	C. A. Eisenhart	331,121	Nov. 24	2248	611	33	955
Dental plate	J. K. Morris	315,319	Apr. 7	462	117	31	84
Dental plate	A. H. Parker	317,667	May 12	993	258	31	712
Dental plate	W. H. Peirce and J. A. Russell	321,847	July 7	611	157	32	111
Dental plate	J. Spyer and R. S. Ingalls	310,233	Jan. 6	91	24	30	90
Dental pliers for adjusting tools in hand-pieces	W. A. Johnston and A. W. Browne	319,584	June 9	835	222	31	1211
Dental plugger	R. H. Antes	326,537	Sept. 29	1749	457	32	1361
Dental plugger	J. F. Clement	312,818	Feb. 24	1850	508	30	715
Dental plugger	W. K. Moore	329,587	Nov. 3	222	58	33	548
Dental suction-plate former	J. Spyer	331,840	Dec. 8	887	229	33	1164
Dental tool	T. Cogswell	313,092	Feb. 10	856	235	30	516
Dental tool for preparing roots for crowns	C. P. Groat	319,227	June 2	366	98	31	1117
Dental-tool holder	L. T. White	321,265	June 30	3125	832	31	1650
Dental-tool-rack and case	A. A. Stillman	313,382	Mar. 3	460	126	30	886
Dentifrice	J. E. Edmundson	315,750	Apr. 14	1080	318	31	203
Dentistry	J. L. Whinery	328,442	Oct. 13	1227	318	33	232
Dentist's chair	O. C. White	316,100	Apr. 21	1556	405	31	295
Dentists' chairs. Lowering mechanism for	L. Stuck	332,626	Dec. 15	2005	536	33	1368
Dentist's or photographer's chair	O. C. White	326,185	Sept. 15	1221	334	32	1267
Denture. Artificial	J. E. Low	313,434	Mar. 3	550	144	30	879
Denture. Artificial	J. E. Low	319,829	June 9	1171	309	31	1271
Denture. Artificial	P. A. Palmer	315,656	Apr. 14	943	247	31	176
Denture. Artificial	L. T. Sheffield	318,579	May 26	2221	593	31	955
Denture. Artificial	L. T. Sheffield	318,580	May 26	2222	594	31	955
Denture support. Artificial	W. W. Sheffield	318,581	May 26	2224	594	31	956
Deodorizing and disinfecting apparatus	W. A. Hawkins	329,645	Nov. 3	297	75	33	561
Deoxidizing the surface of sheet metal	E. V. McCandless	312,142	Feb. 10	919	250	30	527
Depurator	J. Ketchum, Jr.	314,453	Mar. 24	1907	509	30	1158
Derrick	O. E. Hallin	314,015	Mar. 17	1337	348	30	1042
Derrick	D. Sharp	322,756	July 21	1809	477	32	345
Derrick. Adjustable	A. P. Cadden	330,374	Nov. 17	1284	341	33	766
Derrick and carrier. Combined	J. N. Flisk	325,738	Sept. 8	707	176	32	1152
Derrick and carrier. Grain and hay	T. B. Elliott	310,263	Jan. 6	133	38	30	27
Derrick. Revolving	A. N. Slingerly	323,538	Aug. 4	204	60, 61	32	560
Derrick. Traveling	H. Case	330,570	Nov. 24	1920	521	33	894
Desiccating apparatus	H. Breer	313,402	Mar. 3	508	133	30	871
Desiccating apparatus	H. Breer	326,842	Sept. 22	2196	573	32	1440
Desiccating apparatus	H. Breer	326,843	Sept. 22	2198	574	32	1440
Designs in relief. Making ornamental and other	M. Sness	313,029	Feb. 24	2136	567	30	766
Designs on briannia and other soft metals. Producing ornamental	J. W. Tufts	320,513	June 23	2151	567	31	1462
Desk	J. F. Appell	329,992	Nov. 10	771	197	33	656
Desk	B. Brower	323,271	July 28	2534	673	32	485
Desk	D. N. Butterfield	310,877	Jan. 20	917	250	30	185
Desk	L. Larson	330,409	Nov. 17	1331	354	33	774
Desk	J. E. W. Poolman	321,383	June 30	3272	874	31	1679
Desk	C. A. Priest	322,125	July 14	900	256	32	187
Desk	W. H. Wetmore	317,253	May 5	442	110	31	603
Desk and seat. School	G. Hamel	318,183	May 19	1676	450	31	849
Desk-chair	A. Cutler	330,332	Nov. 17	1294	343	33	768
Desk-curtain. Slatted	F. A. Coffin	320,913	June 30	2672	710	31	1567
Desk. Folding reading	D. D. Bowman	317,288	May 5	491	123	31	613
Desk-pad, portfolio, and calendar. Combined	W. R. Cole	311,103	Jan. 20	1245	341	30	243
Desk. Portable	C. Newbourg	327,816	Oct. 6	407	106	33	71
Desk. School	W. P. Conner	327,242	Sept. 29	2735	710	32	1544
Desk. School	N. Johnson	329,175	Oct. 27	2241	580	33	428
Desk. School	G. Munger	320,201	Oct. 27	2285	592	33	437
Desk. School	J. M. Sauder	331,540	Dec. 1	413	111	33	1073
Desk. School	E. R. Shepard	325,981	Sept. 8	1007	237	32	1208
Desk. School	J. H. Stigleman	321,322	June 30	2192	851	31	1063
Desk. School	J. H. Talbott	311,928	Feb. 10	626	173	30	473
Desk, wash-stand, and other furniture	J. Penney	332,366	Dec. 15	1638	429	33	1304
Desk. Writing	H. W. Ellsworth	326,636	Sept. 22	1885	494	32	1364
Desk. Writing	J. J. Schmitt and M. W. Dougherty	319,133	June 2	247	65	31	1093
Desks, seats, &c., to floors. Device for detachably securing	W. F. Young	326,470	Sept. 15	1661	434	32	1336
Detector							
See Time-detector.							
Detergent	C. Robinson	319,323	June 2	474	117	31	1138
Dials. Machine for ruling	R. L. Taft	312,227	Feb. 10	1047	287	30	549
Dials. Transferring letters and designs to	F. Schmalz	332,678	Dec. 15	2088	533	33	1323
Diamond. Artificial	E. E. Kipling	321,302	June 30	3168	831	31	1658
Diamond-setting	C. Blanchard	325,485	Sept. 1	361	88	32	1084
Diaper	L. S. Samuel	318,141	May 19	1627	434	31	839

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Die:							
See Brick or tile die.	Steel die.						
Forging-die.	Tile-machine die.						
Screw-cutting die.	Wire-drawing die.						
Shearing-die.							
Die.	W. Allderice	320,801	Nov. 3	504	128	33	600
Die for spherical articles	G. F. Simonds	319,756	June 9	1057	280 281	31	1259
Die-grinding machine	E. S. White	326,001	Sept. 8	1035	263	32	1213
Die or nipple holder	S. J. Wakeley	314,087	Mar. 17	1428	373	30	1059
Die-presses. Adjusting-screw for	F. M. Leavitt	330,791	Nov. 17	1812	468	33	867
Die-stock	F. Armstrong	324,516	Aug. 18	1515	417	32	619
Die-stock	J. C. Bauer	330,868	Nov. 24	1916	520	33	893
Die-stock	J. H. Hines	332,801	Dec. 23	2254	594	33	1431
Die-stock	J. W. Strong	323,464	Aug. 4	105	30	32	541
Die-stock	F. E. Wells	311,549	Feb. 3	128	37	30	373
Digester-door	T. F. Rowland	320,971	June 30	2750	731	31	1581
Digger:							
See Post-hole digger.	Root-digger.						
Potato-digger.	Stubble-digger.						
Dilator. Vaginal	H. G. Farr	316,611	Apr. 28	2240	590	31	435
Dipper	E. Hoeter	323,332	July 28	2636	701	32	502
Direct-acting engine	G. H. Reynolds and T. J. Rider	318,656	May 26	2311	618	31	973
Direct-acting engine	R. Welford	323,626	Oct. 20	1483	387	33	284
Direct-acting engine	C. C. Worthington	332,857	Dec. 22	2326	616 617	33	1433
Dish-blanks. Knife for cutting	S. H. Smith	322,017	July 14	838	219	32	160
Dish. Butter	S. W. Babbitt	330,193	Nov. 10	1038	271	33	710
Dish. Covered	W. F. Snively	320,228	Oct. 27	2324	602	33	444
Dish. Folding soap	E. Hull	331,062	Nov. 24	2159	586	33	940
Dish. Soap	H. C. Hart	310,246	June 2	378	101	31	1119
Dish-warmer	R. V. Lewis and H. C. Conger	310,201	Jan. 6	172	48	30	34
Dish-washer	S. M. Fenton	325,792	Sept. 8	717	19	32	1185
Dish-washer	C. A. Haskins	329,452	Nov. 3	30	9	33	510
Dish-washer and churn. Combined	W. N. Fletcher	319,967	June 16	1369	359 360 255	31	1314
Dish washer and drier	J. J. W. Place	313,764	Mar. 10	990	255	30	970
Disinfectant	F. Y. Cromwell	326,479	Sept. 15	1671	701	32	1338
Disinfectant	R. A. Fisher	314,820	Mar. 31	2425	560	30	1279
Disinfectant and cleansing liquid for animals, &c.	H. Endemann	331,190	Nov. 24	2349	33	33	973
Disinfecting apparatus	R. Henneberg	327,395	Sept. 29	2941	767 768	32	1578
Disinfecting apparatus	R. Thayer	311,271	Jan. 27	1496	408	30	296
Disinfecting apparatus for water-closets	A. M. Loryea	314,590	Mar. 31	2098	560	30	1316
Disinfecting apparatus. Portable	W. W. Rosenfield	330,853	Nov. 17	1894	513	33	681
Disinfecting baled rags, &c.	S. W. Parker and H. Blackman	311,360	Jan. 27	1619	443	30	318
Disinfecting compound	F. Joosa	321,368	June 30	3256	31	31	1675
Disinfecting water-closets	W. M. Ernst	317,634	May 12	948	243	31	703
Disinfecting water-closets	W. M. Ernst	331,693	Dec. 1	675	167	33	1117
Disinfecting water-closets, &c. Automatically	W. J. Longley and C. Elkin	311,192	Jan. 27	1372	376	30	273
Disintegrating lute, &c. Machine for	F. Luft	330,988	Nov. 24	2075	569	33	923
Display-case for goods	J. N. Leonard	320,566	June 23	2217	587	31	1475
Display-frame	W. B. Foster	320,122	June 16	1583	418	31	1351
Display-rack	B. B. Weidner	318,336	May 19	1887	508	31	887
Distance-instrument	J. L. Buford	330,818	Nov. 17	1847	497 498	33	873
Distance-register for vehicles	E. Schuchardt	318,511	May 26	2113	570	31	938
Distillates. Apparatus for separating and distributing	G. H. Perkins	314,715	Mar. 31	2260	600	30	1248
Distillation of hydrocarbons. Apparatus for the	R. Dean	314,368	Mar. 24	1800	479	30	1138
Distillation of petroleum. Process of and apparatus for the fractional	R. Dean	310,497	Jan. 6	425	117	30	82
Distilleries. Apparatus for mashing grain in	C. S. Corning	325,323	Sept. 1	125	35	32	1038
Distilling and concentrating liquids	C. C. Peck	329,073	Oct. 27	2102	545 546	33	403
Distilling and concentrating liquids	C. C. Peck	329,074	Oct. 27	2107	546	33	404
Distilling and concentrating liquids. Apparatus for	C. C. Peck	329,072	Oct. 27	2098	545	33	403
Distilling apparatus	F. T. King	328,316	Oct. 13	1041	269	33	197
Distilling glycerine. Apparatus for	R. Giebertmann	319,971	June 16	1376	361	31	1315
Distilling lactic acid	C. N. Waite	321,925	July 7	709	32	32	129
Distilling wood. Apparatus for	T. H. Berry	332,320	Dec. 15	1577	414	33	1294
Distilling wood. Apparatus for	E. Koch	316,794	Apr. 28	2511	656	31	474
Distributor and planter	G. W. Goodwin	324,468	Aug. 18	1446	395	32	807
Ditching and tile-laying machine	J. T. Dougine	333,114	Dec. 29	2701	708 709	33	1507
Ditching and tile-laying machine	J. C. White	332,126	Dec. 8	1310	340	33	1240
Ditching-machine	P. Ahnlund	322,771	July 21	1828	484	32	348
Ditching-machine	O. M. Allaben	313,043	Mar. 3	5	1.9	30	779
Ditching-machine	P. Brollin	333,441	Dec. 29	3139	821	33	1554
Ditching-machine	D. Fisher	331,875	Dec. 8	931	247	33	1172
Ditching-machine	J. C. Harker	312,629	Feb. 24	1596	431	30	670
Ditching-machine	J. C. Harker	312,631	Feb. 24	1600	438 439	30	670
Ditching-machine	J. W. Humphreys	328,407	Oct. 13	1180	365 366	33	223
Ditching-machine	J. W. Humphreys	330,331	Nov. 10	1208	323	33	745
Ditching-machine	G. H. Kamman	324,328	Aug. 11	1280	342	32	765
Ditching-machine	F. X. Lemay	330,909	Nov. 24	1970	533	33	903
Ditching-machine	A. Long	314,859	Mar. 31	2473	655	30	1287
Ditching-machine	F. M. Marquis	328,697	Oct. 20	1572	409 410	33	301

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &	Vol.	Page.
Ditching-machine.....	S. M. Murray and J. C. Stryker	311,668	Feb. 3	272	75	30	400
Ditching-machine.....	F. Plumb	316,396	Apr. 21	1948	513	31	385
Ditching-machine.....	D. J. Powers	319,421	June 2	563	161	31	1161
Ditching-machine.....	W. Pulver	312,758	Feb. 24	1773	488	30	702
Ditching-machine.....	S. M. Stewart	331,217	Nov. 24	2389	646	33	980
Ditching-machine.....	J. C. Titus and J. and S. E. Morral	322,656	July 21	1677	444	32	330
Ditching-machine.....	S. F. Welch	312,049	Feb. 10	792	217	30	503
Ditching-machine.....	J. W. Zeis	317,481	May 5	751	190	31	659
Ditching machine. Railway.....	A. H. McGrew	318,643	May 26	2294	612	31	969
Ditching, tile-forming, and wire-laying machine. } Mole.....	S. Montgomery	330,724	Nov. 17	1725	465	33	851
Divers. System of communication with	P. Huntley	329,391	Oct. 27	2569	662	33	488
Dividers and callipers	C. S. Barber	313,275	Mar. 3	344	85	30	839
Dividing-instrument. Draftsman's	P. S. Marks	310,450	Jan. 6	368	102	30	72
Dock	J. S. Vanness	312,234	Feb. 10	1055	390	30	551
Doll-body with corsets	P. Goldsmith	332,248	Dec. 15	1480	387	33	1276
Domestic and agricultural boiler.....	E. Richmond	331,446	Dec. 1	274	74.75	33	1047
Domino	F. H. Richards	331,652	Dec. 1	615	152	33	1105
Door	J. Gamblee	323,658	Aug. 4	366	104	32	591
Door	J. W. Moyer	328,900	Oct. 20	1827	476	33	349
Door alarm. Shop.....	A. Bénézit	315,999	Apr. 21	1421	369	31	270
Door and gate spring	N. Headington and J. S. Malin	317,132	May 5	270	68	31	573
Door and gate spring	J. M. Stewart	317,877	May 12	1267	338	31	764
Door and shutter fastener.....	J. T. and N. R. Yarnall	327,373	Sept. 29	2909	759	32	1572
Door-bolt	R. L. Leininger	322,944	July 28	2078	553	32	401
Door-bolt	J. F. Taylor	322,211	July 14	1089	283	32	207
Door bolt. Prison.....	W. Corry	323,855	Aug. 4	604	170	32	637
Door-check	W. Bahre	330,537	June 23	2170	572	31	1465
Door-check	N. O. Bond	324,452	Aug. 18	1426	389	32	803
Door-check	J. W. Callaway	315,718	Apr. 14	1029	270	31	192
Door-check	J. A. Coultans	328,192	Oct. 13	890	231	33	168
Door-check	G. R. Elliott	329,208	Oct. 27	2422	698	33	463
Door-check	P. Forg	319,086	June 2	189	50	31	1083
Door-check	W. E. Gard	323,405	Dec. 29	3094	807	33	1577
Door-check	C. E. Hewitt	315,824	Apr. 7	419	105	31	76
Door-check	D. Jennings	312,659	Feb. 24	1910	524	30	726
Door-check	T. M. Kenney	312,127	Feb. 10	899	245	30	523
Door-check	J. Krumscheid	317,147	May 5	290	74	31	576
Door-check	A. Maurer	330,138	Nov. 10	972	253	33	697
Door-check	J. E. Newcomb	326,320	Sept. 15	1481	325	32	1303
Door-check	E. Niggli	310,844	Jan. 13	874	236	30	171
Door-check	L. Pentz	311,604	Feb. 3	195	55	30	385
Door-check	J. F. Rowlett	319,625	June 9	893	236	31	1222
Door-check	C. A. Schmidt	321,645	July 7	316	84	32	60
Door-check	J. H. Shaw	322,648	July 21	1665	441	32	319
Door-check	W. H. Teetzel	318,323	May 19	1868	501	31	883
Door-check	A. B. Walker	310,752	Jan. 13	758	207	30	149
Door-check	S. Weaver	319,532	June 9	764	204	31	1198
Door-check	T. G. Williamson	322,513	July 21	1498	394	32	288
Door check and buffer. Combined	C. G. Griffin	321,964	July 14	762	190	32	147
Door check and closer	T. B. Comins, Jr.	332,056	Dec. 8	1201	313	33	1221
Door check and holder	T. E. Barrow and H. Wade	315,321	Apr. 7	345	84	31	62
Door-check. Hydraulic	L. Wadack and A. Gaffy	322,218	July 14	1099	285	32	209
Door-check. Pneumatic	G. R. Elliott	330,296	Oct. 27	2419	627	33	463
Door-check. Pneumatic	W. Gillilan	311,742	Feb. 3	363	100	30	417
Door-check. Pneumatic	G. Vincent	322,763	July 21	1818	481	32	347
Door-closer	E. H. Brown	310,170	Jan. 6	26	7	30	7
Door-closer	M. P. Ismay	318,258	May 19	1774	474	31	867
Door-closer	J. McDonald	316,283	Apr. 21	1800	473	31	339
Door-closing device	N. H. Richardson	316,571	Apr. 28	2189	576	31	416
Door. Combined screen and storm	C. Anderson	321,936	July 14	730	191	32	141
Door-fastening	C. P. Combs	329,624	Nov. 3	273	71	33	557
Door fastening. Barn.....	W. L. Bliss and G. F. Kopp	324,525	Aug. 18	1528	422	32	821
Door fastening. Double.....	G. W. Wright	333,093	Dec. 22	2664	699	33	1495
Door fixture. Sliding.....	E. Y. Moore	321,518	July 7	157	42	32	31
Door handle. Sliding.....	O. Seely	321,143	June 30	2974	788	31	1621
Door-hanger	A. J. Bates	330,286	Nov. 10	1154	306	33	733
Door-hanger	J. Braun	332,185	Dec. 8	1388	359	33	1253
Door-hanger	C. W. Bullard	317,496	May 12	773	197	31	672
Door-hanger	C. W. Bullard	321,081	June 30	2898	770	31	1608
Door-hanger	J. A. Carr	312,969	Feb. 24	2044	558	30	750
Door-hanger	N. Clark	328,322	Oct. 13	1148	295	33	217
Door-hanger	G. W. Hey	314,177	Mar. 17	1545	405	30	1060
Door-hanger	H. A. Holmes	316,037	Apr. 21	1467	383	31	270
Door-hanger	D. Manuel	318,195	May 19	1605	429	31	835
Door-hanger	H. Myers	327,450	Sept. 29	3006	785	32	1590
Door-hanger	S. H. Nye	319,113	June 2	222	58	31	1088
Door-hanger	E. T. Prindle	312,294	Feb. 17	1152	315	30	577
Door-hanger	O. Seely	310,229	Jan. 6	86	23	30	19
Door-hanger	S. Shreffler, Jr.	322,488	July 21	1460	324	32	222
Door-hanger	E. C. Stearns	321,151	June 30	2985	791	31	1623
Door-hanger	W. E. Warner	311,697	Feb. 3	309	85	30	407
Door-hanger. Sliding.....	C. C. Runyan	331,258	Nov. 24	2453	662	33	991
Door. Hanging.....	C. W. Emerson	314,005	Mar. 17	1322	345	30	1040
Door. Hanging.....	C. W. Emerson	321,198	June 30	3047	807	31	1635
Door holder. Sliding.....	W. E. Haycox	317,352	May 5	575	148	31	628
Door-key	T. Taylor	313,692	Mar. 10	881	230	30	951
Door-lock	F. N. Perkins	315,657	Apr. 14	944	247	31	176
Door-lock	R. G. Roland	316,574	Apr. 28	2192	577	31	416
Door lock. Sliding.....	G. Cassady	316,115	Apr. 21	1581	411	31	300

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Door lock. Sliding.	W. Gerwien	315,761	Apr. 14	1095	287	31	205
Door lock. Sliding.	M. Hayden and W. C. Dixon	330,236	Nov. 10	1066	287	33	720
Door lock. Sliding.	W. E. Sparks	331,094	Nov. 24	2206	597	33	948
Door-opener	J. Finck	323,308	July 28	2803	692	32	496
Door-opener	C. E. Whitney	325,299	Sept. 1	96	27	32	1033
Door-opener	E. G. Worley	313,464	Mar. 3	597	153	30	887
Door-opener. Electric	T. A. Casey	322,681	July 21	1706	452	32	327
Door-opening device	S. H. Law	323,165	July 28	2391	634	32	459
Door-operating device	J. Finck	328,114	Oct. 13	793	207	33	150
Door or shutter	E. Belden	315,111	Apr. 7	166	40	31	31
Door or shutter bolt	A. W. Harris	313,328	Mar. 3	417	104	30	853
Door or shutter fastener	P. J. Conroy	332,495	Dec. 15	1809	475	33	1334
Door or window screen	O. G. Newton	312,374	Feb. 17	1255	346	30	597
Door-plate	E. C. Barton	332,775	Dec. 22	2323	566	33	1415
Door-plate	S. Porter	311,782	Feb. 3	417	113	30	426
Door roller. Sliding	J. H. Lawrence	319,494	June 9	712	192	31	1129
Door roller. Sliding	N. Lucas	330,339	Nov. 10	1218	326	33	746
Door saddle or sill	J. A. Cramer	317,630	May 12	944	242	31	702
Door-securer	E. A. Bullock	312,426	Feb. 17	1324	365	30	611
Door-securer	D. H. Parkhill, Jr.	329,673	Nov. 3	331	84	33	567
Door-securer	F. R. Woodward	321,775	July 7	498	132	32	93
Door-securing device	J. W. Cloud and A. S. Vogt	327,238	Sept. 29	2726	708	32	1542
Door-shield	M. Camp	327,228	Sept. 29	2717	707	32	1540
Door-sill	A. M. Roscoe	328,814	Oct. 20	1712	446	33	328
Door-sill. Metallic	C. C. Schreiber	324,732	Aug. 18	1808	500	32	875
Door. Sliding	W. S. Brickell	330,000	Nov. 10	911	236	33	624
Door. Sliding	H. H. Hewitt	325,245	Sept. 1	16	6	32	1018
Door-spring	A. Carrier	321,049	July 14	746	195	32	144
Door-spring	G. R. Elliott	329,297	Oct. 27	2421	628	33	463
Door-spring	W. Gillilan	311,307	Jan. 27	1549	419	30	303
Door-spring	S. T. Lamb	315,392	Apr. 7	440	111	31	80
Door-spring	J. H. Shaw	322,640	July 21	1666	441	32	319
Door spring and bell. Combined	W. Bruen and S. A. Wall	312,806	Feb. 24	1834	503	30	712
Door spring and check	J. Bardeley	320,000	Oct. 27	1992	518	33	325
Door spring and check. Combined	W. F. Falls	329,032	Oct. 27	2044	530	33	394
Door spring and check. Combined	J. S. Stevens and C. G. Major	322,077	Oct. 13	744	194	33	141
Door stop and holder	S. W. Jay and M. J. Garvey	311,836	Feb. 3	484	132	30	440
Door-strip	W. Clark	330,563	Nov. 17	1525	408	33	811
Doors. Adjustable stop for sliding	J. B. Chase	333,281	Dec. 29	2892	767	33	1549
Doors and shutters. Bar for securing	C. H. Knauer	313,942	Mar. 17	1250	325	30	1025
Doors and shutters. Operating	E. Perkins	329,235	Sept. 15	1488	388	32	1304
Doors. Apparatus for operating warehouse	G. L. Brownell	314,219	Mar. 24	1598	422	30	1100
Doors. Device for hanging	F. B. Boalt	322,037	July 14	862	224	32	165
Doors. Hanging	F. B. Boalt	315,230	Apr. 7	355	87	31	64
Doors. Stay-roller for sliding	J. H. Lawrence	313,085	Mar. 3	60	16	30	729
Doors. Stay-roller for sliding	A. L. Swett	319,838	June 9	1321	348	31	1297
Douche apparatus	H. S. Paine	331,235	Nov. 24	244-	661	33	990
Double-acting lock	M. Schwerin	313,113	Mar. 3	99	25	30	795
Double-tree	E. Colwell	326,850	Sept. 22	2209	576	32	1442
Double-tree	J. T. Dougine	319,801	Jan. 13	818	232	30	160
Double-tree	P. W. Leffler	327,180	Sept. 29	2665	693	32	1529
Double-tree	W. L. Long	313,433	Mar. 3	549	144	30	879
Double-tree	W. C. Peckham	329,075	Oct. 27	2109	547	33	404
Double-tree protector	T. Feyen	317,105	May 5	229	57	31	565
Doubling and spinning silk. Machine for	W. Nugent	332,233	Dec. 22	2277	600	33	1425
Doubling and twisting machines. Thread-breaking attachment for	F. Haggas	332,512	Dec. 15	1639	482	33	1339
Doubling and twisting silk and other threads. Machine for	J. E. Tynan	326,530	Sept. 15	1737	454	32	1351
Doubling and twisting thread. Machine for	J. E. Tynan	321,924	July 7	706	184	32	128
Doubling and winding yarn or thread upon bobbins. Machine for	J. and J. Horrocks	313,869	Mar. 17	1137	296 } 297 }	30	1005
Dough. Converting flour into	P. F. Smith	332,018	Dec. 8	1138	297	33	1211
Dough. Mechanism for converting flour into	P. F. Smith	332,017	Dec. 8	1138	297	33	1211
Dough-rolling machine	R. Morhard	319,991	June 16	1403	369	31	1319
Dovetailing-machine	L. P. Garcin	331,491	Dec. 1	333	90	33	1057
Dovetailing-machines. Automatic switch for	C. Garff	332,295	Dec. 29	2954	771	33	1553
Dowel-pins. Machine for making	C. J. Robinson	331,733	Dec. 1	736	185	33	1127
Dowels. Machine for longitudinally grooving rods for	T. Hofstatter, Jr	324,259	Aug. 11	1164	317	32	746
Draft-bar. Shifting	B. B. Myers	320,384	June 16	1977	520	31	1423
Draft device. Vehicle	T. H. Paessler	331,156	Nov. 24	2299	692 } 623 }	33	964
Draft, check, and other money orders	W. T. Doremus	322,166	July 14	1036	269	32	197
Draft-equalizer	G. W. and F. E. Arnold	315,375	Apr. 7	534	136	31	97
Draft-equalizer	C. Bellmann	310,977	Jan. 20	1064	289	30	910
Draft-equalizer	J. N. Bowyer	317,081	May 5	200	50	31	559
Draft-equalizer	M. A. Davidson	314,319	Mar. 24	1732	461	30	1125
Draft-equalizer	J. H. Ingersoll	332,505	Dec. 22	2258	585	33	1421
Draft-equalizer	M. Kane	328,037	Oct. 13	690	182	33	132
Draft-equalizer	G. J. Kaplan	320,793	June 23	2504	663	31	1530
Draft-equalizer	C. Kleser	311,838	Feb. 3	486	133	30	440
Draft-equalizer	P. E. McDonnell	319,501	June 9	723	194	31	1191
Draft-equalizer	C. Miner	319,000	June 9	664	229	31	1216
Draft-equalizer	M. S. O'Neil	322,197	July 14	1073	278	32	904
Draft-equalizer	J. Putnam	310,850	Jan. 13	880	238	30	172
Draft-equalizer	G. C. Roth	313,374	Mar. 3	473	123	30	864
Draft-equalizer	A. Sellers	322,647	July 21	1663	440 } 441 }	32	318
Draft-equalizer	W. B. Steele	311,042	Jan. 20	1154	314	30	228
Draft-equalizer	J. W. Wainwright	317,897	May 12	1298	347	31	770
Draft regulator	J. Q. Everson	325,791	Sept. 8	776	194	33	1164
Draft-regulator	W. Hunter	321,502	July 7	123	32	32	94
Draft-regulator	G. W. Lore	316,552	Apr. 28	2165	570	31	811

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Draft-regulator. Automatic	M. H. Smith	322,491	July 21	1467	385	32	293
Draft slide or register	L. A. White	319,367	June 2	526	143	31	1148
Draft-spring	J. M. Rohrer	311,260	Jan. 27	1471	402	30	291
Drafting-case. Student's	W. R. Briggs	327,226	Sept. 29	2715	706	32	1540
Drafting. Perspective delineator for	W. E. Speir	312,175	Feb. 10	981	268	30	537
Drafting-table	H. C. Weedon	318,528	May 26	2143	577	31	944
Drafting the arm-size of garments. Apparatus for	G. S. Gates	310,666	Jan. 13	648	178	30	129
Draftsman's tool	T. G. R. Christian	314,316	Mar. 24	1729	460	30	1194
Drag. Marine	W. H. Hart	332,898	Dec. 22	2387	631	33	1445
Drain and drain-tile	F. M. Marquis	320,667	June 23	2356	692	31	1500
Drain-pipe. Straight-edge for laying	H. C. Lowrie	317,158	May 5	310	78	31	579
Drain-pipe trap	R. Thayer	319,529	June 9	759	203	31	1197
Drainage with special reference to the prevention of floods. Surface	A. Montenegro	319,297	June 2	439	118	31	1131
Drainer. Folding dish	F. Eaton	329,150	Oct. 27	2910	573	33	423
Draining machinery. Mine	J. Moore	322,955	July 28	2097	558	32	405
Drapery-pin	G. W. Ferguson, Jr.	325,924	Sept. 8	933	236	32	1195
Draw-bar	H. L. Peck	328,969	Oct. 27	1944	507	33	376
Draw-bar	W. Raper	322,200	July 14	1076	279	32	205
Draw-bar	J. Trippett, T. and H. Searls	328,086	Oct. 13	758	198	33	143
Draw-bars. Apparatus for manufacturing	J. H. Simpson	328,435	Oct. 13	1216	315	33	230
Draw-bars. Manufacturing	J. H. Simpson	328,436	Oct. 13	1220	316	33	231
Draw-bench	J. J. Fisher	320,922	June 30	2080	712	31	1568
Draw-bench	W. R. Walton	324,506	Aug. 18	1503	411	32	816
Draw-head attachment	C. E. Mark	326,761	Sept. 22	2085	541	32	1419
Draw-shave	W. Millsapugh	325,759	Sept. 8	733	183	32	1157
Drawer	M. Meyer	310,299	Jan. 6	185	51	30	36
Drawer	R. W. Perry	327,104	Sept. 29	2559	667	32	1511
Drawer and recorder. Money	A. S. Keating	327,175	Sept. 29	2655	690	32	1528
Drawer-case	N. A. Hull	318,114	May 19	1592	425	31	833
Drawer for drawing-paper and documents	A. Russell	326,061	Sept. 8	1121	285	32	1229
Drawer. Furniture	C. E. Birkhead	321,078	June 30	2294	769	31	1608
Drawer. Furniture	E. C. Roberts	316,294	Apr. 21	1812	476	31	341
Drawer-handle	C. M. Burgess	311,953	Feb. 10	665	182	30	479
Drawer. Money	W. H. Harrison	322,373	July 14	1294	338	32	246
Drawer-pull	E. J. Blackham	312,798	Feb. 24	1825	501	30	711
Drawer-pull	G. E. Somers	315,852	Apr. 14	1210	316	31	226
Drawer-pull	J. Wier	311,158	Jan. 20	1317	362	30	256
Drawers	V. Bell	319,175	June 2	292	78	31	1101
Drawers and overalls	L. Goldsmith	331,959	Dec. 8	1058	275	33	1497
Drawers and pantaloons	S. D. Blake	321,416	July 7	4	1	32	3
Drawers. Device for securing a series of	M. Fiset	332,337	Dec. 15	1600	420	33	1298
Drawers. Fastening device for a series of	M. Bancroft	316,596	Apr. 28	2222	585	31	422
Drawers, overalls, and pantaloons	J. Eisner	317,962	May 19	1417	380	31	800
Drawers-support	T. E. Scott	329,961	Nov. 10	728	186	33	648
Drawing and spinning hemp, &c. Machine for	J. Good	317,115	May 5	240	60, 61	31	567
Drawing and spinning hemp. Machine for	J. Good	317,117	May 5	249	62, 63	31	569
Drawing and spinning machines. Feed-regulator for hemp	G. Davis	326,723	Sept. 22	2037	530	32	1411
Drawing and spinning machines. Machine for preparing the covering for top rolls for	C. Coupland	321,952	July 14	749	196	32	144
Drawing and spinning machines. Roll for	C. Coupland	322,998	Dec. 22	2534	668	33	1472
Drawing-board	S. W. Goodwin	316,538	Apr. 28	2147	565	31	408
Drawing-board	E. Jordan	329,392	Oct. 27	2570	663	33	488
Drawing-board	C. N. Leonard	324,855	Aug. 25	1984	546	32	914
Drawing-board	F. Weber	312,535	Feb. 17	1483	405	30	638
Drawing-board and drafting appliance	W. G. Stewart	318,319	May 19	1862	500	31	882
Drawing-board and T-square	C. H. Prescott	315,545	Apr. 14	801	211	31	149
Drawing-frame, &c	J. H. Wilson	321,267	June 30	3127	833	31	1650
Drawing-frames, &c. Clearer-holder for	J. Walker	313,790	Mar. 10	1025	263	30	976
Drawing-frames, &c. Top roller for	J. Brierley	319,187	June 2	306	81	31	1104
Drawing-knife gage	P. F. Chandler	322,040	July 14	866	225	32	166
Drawing rods and shafting. Machine for	B. C. White	323,762	Aug. 4	495	139	32	616
Drawing rods. Machine for	B. C. White	323,763	Aug. 4	499	140	32	616
Drawing rods or bars. Machine for	B. C. White	323,761	Aug. 4	493	139	32	615
Drawing-roll	N. L. Randall	331,328	Dec. 1	100	23	33	1016
Drawing-stand	E. S. Cobb	315,246	Apr. 7	374	92	31	68
Drawings, engravings, &c. Producing transfers of	I. Ramsdell	313,106	Mar. 3	92		30	794
Dray. Three-wheeled	S. Perry and D. A. Sprague	328,514	Oct. 20	1310	340	33	255
Dredge	G. M. O'Donnell	324,479	Aug. 18	1464	401	32	809
Dredge	A. C. Whittier	322,231	July 14	1115	290	32	212
Dredge-buckets. Pick attachment for	J. McSpirt	324,573	Aug. 18	1586	437	32	833
Dredger	J. N. S. Williams	331,929	Dec. 8	1018	264	33	1189
Dredges. Rotary cutter for	J. H. Bolles	331,861	Dec. 8	914	236	33	1169
Dredging	A. B. Bowers	318,860	May 26	2596	689	31	1023
Dredging and grappling apparatus	H. Clark	326,627	Sept. 22	1874	491	32	1381
Dredging apparatus	G. F. Badger	329,428	Nov. 3	3	1	33	505
Dredging-machine	A. B. Bowers	318,859	May 26	2587	689	31	1021
Dredging-machines. Discharge-pipe for	A. W. Von Schmidt	326,072	Sept. 8	1139	289	32	1232
Drenching-bit	J. F. Marvin	323,183	July 28	2425	642	32	465
Dress-shield	I. A. Canfield	317,626	May 12	940	241	31	701
Dress-shield	D. C. Hall	331,963	Dec. 8	1064	276	33	1198
Dress-shields. Apparatus for the manufacture of	I. A. Canfield	317,624	May 12	938	240	31	701
Dress-shields. Manufacturing	I. A. Canfield	317,625	May 12	939	241	31	701
Dress-waist. Attaching stiffenings to	E. K. Warren	327,626	Oct. 6	169	41	33	31
Dressing-case	R. Sayer	323,739	Aug. 4	465	131	32	610

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Drier:							
See Bone-black drier.	Ore and salt drier.						
Clothes-drier.	Paper-board drier.						
Cotton-drier.	Paper drum and barrel drier.						
Fruit-drier.	Paper-matrix drier.						
Grain-drier.	Sand-drier.						
Lumber-drier.	Tobacco-drier.						
Malt-drier.	Wool-drier.						
Oil-drier.							
Drier.....	C. H. B. Carter and W. S. Johnson.	323,785	Aug. 4	521	147	32	620
Drier.....	J. H. Cohrs.	319,592	June 9	803	213 214	31	1205
Drier.....	D. Grove	313,416	Mar. 3	525	137 138	30	875
Drier.....	L. Hagen	330,018	Nov. 10	808	307	33	682
Drier.....	D. Henderson	332,199	Dec. 8	1404	363	33	1256
Drier.....	J. F. Johnstone	327,948	Oct. 6	572	149	33	103
Drier.....	J. S. Lester	322,302	July 14	1196	314	32	227
Drier.....	A. Munzinger	317,172	May 5	330	82	31	583
Drier.....	W. J. Possons	320,498	June 23	2134	563	31	1459
Drier.....	D. H. Rice	316,484	Apr. 28	2083	545	31	395
Drier.....	W. H. Rogers	327,900	Oct. 6	587	132	33	91
Drier.....	G. W. Sharer	315,348	Apr. 7	496	126	31	91
Drier.....	T. J. Sullivan	326,924	Sept. 22	2313	605	32	1460
Drier.....	T. S. Wiles	314,500	Mar. 24	1982	529	30	1171
Drier.....	C. F. Wolf	318,588	May 26	2232	506 507	31	957
Drill:							
See Automatic drill.	Rock-drill.						
Coal and rock drill.	Rock and coal drill.						
Corn-drill.	Seed-drill.						
Dental drill.	Seed and fertilizing drill.						
Fertilizer-drill.	Twist-drill.						
Grain-drill.	Vertical drill.						
Manure-drill.	Well-drill.						
Metal-drill.	Well-boring drill.						
Ratchet-drill.							
Drill.....	J. M. Glenn	317,336	May 5	558	142	31	625
Drill.....	J. H. Pendleton	319,614	June 9	883	234	31	1920
Drill.....	G. Richardson	327,315	Sept. 29	2829	738	32	1560
Drill and sucker rod joint.	A. M. Bollinger	317,493	May 12	771	196	31	671
Drill-blanks. Machine for making	W. E. Taft	318,322	May 19	1867	501	31	883
Drill-brace. Friction.....	R. S. Solomon	320,185	June 16	1660	441	31	1366
Drill core-breaker. Diamond.	J. P. Griscom	327,942	Oct. 6	564	147	33	101
Drill core-breaker. Diamond.	J. P. Griscom	327,943	Oct. 6	566	147	33	102
Drill core catch or retainer. Diamond.	A. Ball	314,777	Mar. 31	2372	628	30	1289
Drill fertilizer-feed.	T. H. Crane	319,393	June 2	557	151	31	1154
Drill-jar.	E. Queen	315,547	Apr. 14	803	212	31	150
Drill-jar. Rope	C. Phillips	321,753	July 7	465	123	32	88
Drill-jar. Rope	L. Wheeler	311,157	Jan. 20	1317	362	30	256
Drill-press	W. Evans	332,242	Dec. 15	1474	384 385	33	1275
Drill-rods. Apparatus for manipulating.	L. and J. P. Griscom	328,213	Oct. 13	912	237	33	174
Drill-rods. Guide-clamp for	J. P. Griscom	327,944	Oct. 6	567	147	33	102
Drill-rods. Safety-jack for holding	A. Ball	320,380	Sept. 15	1555	404	32	1317
Drills. Machine for grinding	F. Chase	331,115	Nov. 24	2240	609	33	954
Drills. Machine for making	W. Y. A. Boardman	317,227	May 5	489	123	31	613
Drills. Manufacture of	S. Moore	315,530	Apr. 14	779	205	31	145
Drills. Scraper for wheels of wheat-	H. Thoman	320,169	Nov. 10	1008	283	33	705
Drills while being ground. Mechanism for support-	J. Birkenhead	327,758	Oct. 6	330	85	33	58
ing and guiding							
Drilling and boring machine. Combined	G. G. Morrison	319,502	June 9	724	194	31	1191
Drilling and tapping apparatus	J. Van Norman	314,085	Mar. 17	1424	373	30	1059
Drilling apparatus	J. Hunter	325,414	Sept. 1	969	66	32	1066
Drilling-machine	E. Anderson	311,709	Feb. 3	324	89, 90	30	410
Drilling-machine	G. Burnham and A. Goddard	319,952	June 16	1348	354	31	1310
Drilling-machine	W. Dowell	320,053	June 16	1486	392	31	1335
Drilling-machine	U. and H. E. Eberhardt	321,196	June 30	3041	806	31	1634
Drilling-machine	S. Elliott	324,759	Aug. 18	1847	508	32	822
Drilling-machine	C. H. French and A. T. Gifford	317,635	May 12	949	243	31	703
Drilling-machine	F. Gut	328,886	Oct. 20	1810	472	33	345
Drilling-machine	G. G. Harström and A. K. Wester-	324,688	Aug. 18	1757	424	32	865
dahl.							
Drilling-machine	L. L. Lamb	315,149	Apr. 7	225	53	31	41
Drilling-machine	T. McFarlan and H. E. Nottingham	315,049	Apr. 7	86	21	31	17
Drilling-machine	F. B. Miles	331,075	Nov. 24	2174	590	33	942
Drilling-machine	G. T. Reiss	322,969	July 28	2121	564	32	409
Drilling-machine	T. H. Thompson	317,886	May 12	1277	340	31	766
Drilling-machine	J. H. Wesson	323,892	Aug. 4	656	185	32	647
Drilling-machines. Drill-grinding attachment for	E. J. Worcester	325,373	Sept. 1	198	51	32	1059
Drinking-fountain for poultry	A. K. Bates	328,749	Oct. 20	1638	427	33	313
Drinking-fountain for poultry	J. Cook	315,251	Apr. 7	380	94	31	69
Drinking-trough for animals	J. Moore	316,639	Apr. 28	2272	598	31	431
Drinking-trough for animals	J. Moore	321,662	July 7	293	78	32	56
Driving-wheels. Shipper device for bevel friction.	F. J. Pearce	318,890	Feb. 24	1946	533	30	738
Drop-light and chandelier	J. Triggs	312,976	Apr. 14	1390	361	31	257
Drop-movement for pocket utensils	S. M. Brougham	331,941	Dec. 8	1034	268	33	1193
Drop-presses. Machinery for feeding	E. L. Howe	315,942	Apr. 14	1340	348	31	949
Drop-presses. Machinery for feeding	E. L. Howe	315,943	Apr. 14	1343	348	31	249
Dropper:							
See Tobacco-dropper.							
Drum and ventilator. Heating	J. Springer	330,633	Nov. 17	1606	429	33	827
Drum-cover	G. W. Brown	312,804	Feb. 24	1632	502	30	712
Drum. Friction	A. Briggs	327,516	Oct. 6	7	2	33	4

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Drum. Heating.....	G. L. S. Brock.....	318,541	May 26	2176	583	31	948
Drum. Heating.....	P. E. Fox.....	325,405	Sept. 1	258	64	32	1064
Drum. Heating.....	J. P. Lydon.....	322,549	July 21	1534	405	32	285
Drum. Heating.....	M. Ryan.....	329,857	Nov. 3	586	150	33	614
Drum. Shipping.....	J. H. Preater.....	327,589	Oct. 6	116	27	33	22
Drum. Snare.....	R. R. Perry.....	324,681	Aug. 25	2022	554	32	921
Drum. Spring-actuated.....	J. R. H. Hinton.....	329,836	Nov. 3	559	142	33	609
Drums or barrel-bodies. Machinery for drying.....	G. W. Laraway.....	310,690	Jan. 13	681	187	30	136
Dry closet, &c.....	I. D. Smead.....	314,884	Mar. 31	2509	665	30	1294
Drying apparatus.....	A. Coleman.....	322,041	July 14	868	225	32	166
Drying apparatus.....	J. W. Free and J. F. Baldwin.....	316,353	Apr. 21	1884	499	31	354
Drying apparatus.....	O. B. Hardy.....	315,141	Apr. 7	208	50, 51	31	38
Drying apparatus. Platen for.....	A. S. Nichols.....	331,532	Dec. 1	394	106	33	1069
Drying-cylinders. Construction of.....	J. Hawthorn and J. P. Liddell.....	332,901	Dec. 22	2394	632	33	1446
Drying fabrics, yarn, &c. Machine for.....	J., M., C., and L. Jefferson.....	310,683	Jan. 13	671	184	30	134
Drying-machine. Continuous-acting centrifugal.....	E. C. Roettger.....	314,880	Mar. 31	2505	664	30	1294
Duck-shooting blind.....	B. F. Kenly.....	315,297	Apr. 7	434	109	31	78
Dumb-bell.....	G. L. Bailey.....	318,078	May 19	1545	414	31	823
Dumb-bell for electrical exercising apparatus. Electrode.....	J. H. Shaw.....	310,733	Jan. 13	734	200	30	145
Dumb-waiter.....	S. A. Morse.....	311,253	Jan. 27	1460	399	30	289
Dumb-waiter.....	W. B. Moyer.....	316,050	Apr. 21	1482	387	31	282
Dumb-waiter clamp.....	D. D. La. Raw.....	310,687	Jan. 13	679	186	30	135
Duplex engine.....	L. B. Carricabura.....	321,580	July 7	234	62	32	46
Dust-arrester.....	W. Hagenberg.....	333,217	Dec. 29	2841	743	33	1531
Dust-catcher.....	C. G. Rollins.....	311,036	Jan. 20	1142	311	30	226
Dust-collector.....	W. Cook.....	311,295	Jan. 27	1528	416	30	301
Dust-collector.....	J. M. Finch.....	325,521	Sept. 1	415	102	32	1095
Dust-collector.....	N. W. Holt.....	333,463	Dec. 29	3172	829	33	1590
Dust-collector.....	A. Ingraham.....	318,989	June 2	77	20	31	1062
Dust-collector.....	C. H. Morgan.....	333,020	Dec. 22	2564	674	33	1478
Dust-collector.....	C. H. Morgan.....	333,021	Dec. 22	2567	675	33	1478
Dust-collector.....	W. Richardson.....	327,825	Oct. 6	419	109	33	73
Dust-collector.....	J. M. Sprinkel.....	313,928	Feb. 24	2134	581	30	766
Dust-collector.....	P. Van Gelder.....	326,176	Sept. 15	1275	328	32	1264
Dust-excluder.....	H. W. Fox.....	318,176	May 19	1669	447	31	847
Dust hood and blower. Portable.....	M. E. Thompson.....	322,087	Oct. 13	760	198	33	143
Dust-pan.....	E. C. Atwood.....	317,433	May 5	693	175	31	648
Dust-pan.....	S. Cloud.....	332,591	Dec. 15	1980	513	33	1360
Dust-pan.....	N. T. Folsom.....	329,392	Oct. 27	2555	658	33	486
Dust-pan.....	J. F. Wynkoop.....	325,304	Sept. 1	101	28	32	1034
Dust-separating machine.....	P. Van Gelder.....	314,498	Mar. 24	1979	527	30	1170
Dye-stuff from naphthol. Manufacture of.....	H. Vollbrecht and C. Mensching.....	333,037	Dec. 22	2590	33	1482	
Dye-stuff from naphthol. Manufacture of.....	H. Vollbrecht and C. Mensching.....	333,038	Dec. 22	2591	33	1482	
Dye-stuff made from diazo-naphthaline.....	M. Hoffmann.....	332,528	Dec. 15	1870	33	1344	
Dye-stuff or coloring-matter. Red.....	E. Elsassner.....	329,634	Nov. 3	284	33	559	
Dye-stuff. Violet methyl.....	F. Fischer.....	325,928	Sept. 8	826	32	1174	
Dye-stuffs. Manufacture of violet.....	F. Fischer.....	325,927	Sept. 8	825	32	1174	
Dye-stuffs. Production of blue.....	A. Kern and C. L. Müller.....	327,953	Oct. 6	579	33	104	
Dye-stuffs. Production of new violet.....	F. Fischer.....	329,636	Nov. 3	287	33	559	
Dye-vat attachment.....	W. H. Rankin.....	333,157	Dec. 29	2760	723	33	1517
Dyes. Steam-box for fixing.....	W. Thomas.....	314,629	Mar. 31	2153	572	30	1228
Dyed fabrics. Apparatus for steaming.....	E. Rau.....	318,205	May 19	1706	457	31	854
Dyeing.....	R. Silberberg.....	320,820	June 23	2538	33	1536	
Dyeing and sizing apparatus.....	S. Sanford.....	327,599	Oct. 6	127	30	33	24
Dyeing aniline-black.....	A. N. Dubois.....	331,777	Dec. 8	795	33	1146	
Dyeing apparatus.....	L. Pfaff.....	329,463	Nov. 3	78	21, 22	33	520
Dyeing apparatus.....	I. Simonis.....	318,144	May 19	1631	436	31	840
Dyeing, &c. Apparatus for.....	W. Mather.....	323,819	Aug. 4	500	159	32	629
Dyeing, bleaching, &c. Apparatus for.....	J. O. Obermaier.....	332,740	Dec. 22	2181	576	33	1407
Dyeing. Composition of matter to be used in.....	M. E. Waldstein and A. Müller.....	330,275	Nov. 10	1137	33	730	
Dyeing hanks of wool. Apparatus for.....	T. G. Charlesworth.....	315,910	Apr. 14	1302	339	31	241
Dyeing, sizing, and wringing yarn. Apparatus for.....	S. Spencer.....	332,964	Dec. 22	2475	656	33	1492
Dyeing yarns. Apparatus for.....	C. Corron.....	311,568	Feb. 3	147	42	30	376
Dynamite.....	R. S. Penniman and J. C. Schrader.....	333,149	Dec. 29	2750	33	1516	
Dynamite.....	R. S. Penniman and J. C. Schrader.....	333,150	Dec. 29	2752	33	1516	
Dynamite.....	J. C. Schrader.....	333,346	Dec. 29	3019	33	1564	
Dynamite.....	J. C. Schrader.....	333,347	Dec. 29	3020	33	1564	
Dynamite.....	R. W. Warren.....	323,088	July 28	2289	33	440	
Dynamite and making the same.....	J. C. Schrader.....	333,348	Dec. 29	3022	33	1564	
Dynamo-electric or electro-dynamic machine.....	E. Thomson.....	323,975	Aug. 11	768	314	32	675
Dynamometer.....	J. L. Cheney.....	328,650	Oct. 20	1514	393	33	290
Dynamometer and safety-valve. Combined.....	P. Clark.....	318,697	May 26	2267	632	31	853
Dynamometer or motive-power balance.....	E. A. Beury.....	632,697	Dec. 22	2124	500	33	1396
Ear-drum. Artificial.....	J. H. Nicholson.....	312,577	Feb. 17	1535	419	30	660
Ear-jewels. Ball-cover for.....	G. W. Washburn.....	321,407	June 30	3310	883	31	1665
Ear-muff.....	C. E. Gillespie.....	316,089	Apr. 21	1456	380	31	277
Ear-muffier.....	A. L. Britton.....	315,233	Apr. 7	359	88	31	65
Ear-pick.....	J. Ruoff.....	320,889	June 23	2631	696	31	1553
Ear-ring.....	I. R. Dunham.....	324,757	Aug. 18	1845	508	32	881
Ear-ring.....	G. M. Hathaway.....	331,638	Dec. 1	598	148	33	1102
Ear-ring.....	C. E. Westcott.....	320,991	June 30	2775	737	31	1586
Ear-rings. Bar-wire catch for.....	S. F. Merritt.....	326,135	Sept. 15	1216	310	32	1254

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Ear-tube	H. E. Walte	312,308	Feb. 17	1168	319	30	581
Earth and coal loader	D. J. Gilchrist	317,761	May 12	1111	993	31	734
Earth and moon. Device for representing the motions of the	W. W. Whitcomb	327,631	Oct. 6	176	43	33	32
Earth closets. Apparatus for operating dry	W. Heap	327,266	Sept. 29	2766	718	32	1548
Earth loader and conveyer	M. E. Cook	316,243	Apr. 21	1744	458 459	31	330
Earthen and stone ware. Machine for forming	D. S. Chesebro	325,911	Sept. 8	918	231 232	32	1192
Earthenware. Plated hollow	D. S. Plumb	332,435	Dec. 15	1737	455	33	1321
Earthenware vessels. Press for forming	H. E. Merrill and W. E. Dempsey	310,705	Jan. 13	701	192	30	139
Easel	D. Dick	333,303	Dec. 29	2923	739	33	1528
Easel	T. C. Vail	310,481	Jan. 6	403	111	30	78
Easel. Book	H. Patberg	317,566	May 12	858	220	31	687
Easel. Hand	H. A. Sawyer	313,626	Mar. 10	800	210	30	905
Easel. Picture-exhibiting	J. D. Richards	310,319	Jan. 6	215	58	30	41
Easy-chair and couch. Combined	J. V. H. Ditmars	325,326	Sept. 1	128	36	32	1079
Eaves-trough	M. McCoy	327,005	Sept. 29	2422	633	32	1486
Eaves-trough	H. H. Schumann and C. Muth	316,578	Apr. 28	2198	578	31	417
Eaves-trough clamp	G. D. Waters	322,222	July 14	1105	267	32	210
Eaves-trough fastening	O. Harley	327,102	Sept. 29	2637	686	33	1524
Eaves-trough hanger	W. C. Berger	321,180	June 30	3020	800	31	1630
Eaves-trough hanger	W. H. Berger	324,213	Aug. 11	1108	299	32	736
Eaves-trough hanger	G. S. Dippy	319,466	June 9	673	181	31	1182
Eaves-trough hanger	G. Reznor	313,769	Mar. 10	995	257	30	971
Eaves-trough holder	M. Bingham	326,709	Sept. 22	1985	521	32	1403
Eaves-trough trap	W. B. Porter	317,011	May 5	109	28	31	542
Eaves-troughs. Device for use in soldering or making	R. F. O'Brien	316,813	Apr. 28	2535	662	31	479
Eccentric-lubricator	E. Kay	317,372	May 5	601	154	31	633
Eccentric-rods. Safety-guard for	W. H. Diffenderfer	310,655	Jan. 13	633	175	30	126
Eccentric. Shifting	F. X. Black and G. Kaffenberger	321,001	June 30	279	741	31	1588
Ecraseur	D. M. Scheffer and C. F. Martin	326,792	Sept. 23	2132	554	32	1428
Edge-burnishing machine	R. Ashe	313,155	Mar. 3	157	39	30	806
Edge-curling machine	W. A. Wheeler	316,711	Apr. 28	2397	624 625	31	454
Edge-trimming machines. Toe-pieces for	D. Davis	316,750	Apr. 28	2455	639	31	464
Edger	W. Dunbar	311,422	Jan. 27	1705	464	30	333
Edger. Gang	W. A. Campbell	312,250	Feb. 17	1079	297 298	30	564
Edging-cutter	A. Rodgers	310,321	Jan. 6	217	59	30	41
Edging-trimming machine	J. B. West	331,015	Nov. 24	2104	569	33	929
Educational device for the illustration of longitude and time	D. C. Young	328,629	Oct. 20	1489	368	33	285
Egg and fruit holding implement	F. O. Butterfield	319,954	June 16	1351	355	31	1310
Egg-beater	T. W. Brown	322,250	July 14	1136	296	32	216
Egg-beater	C. A. Bryant	319,191	June 9	310	82	31	1105
Egg-beater	W. C. Barry	328,457	Oct. 20	1244	323	33	242
Egg-beater	T. Fletcher	317,755	May 19	1106	291	31	733
Egg-beater	J. L. Newcomer	318,786	May 26	2493	665	31	1065
Egg-beater	D. B. Rock	332,637	Dec. 29	2297	605	33	1429
Egg-beater	G. H. Thomas	331,662	Dec. 1	626	155	33	1108
Egg-beater	J. E. Welling	321,327	June 30	3199	853	31	1664
Egg-beater and liquid-mixer	E. E. Hough	326,840	Sept. 8	837	209	32	1176
Egg-beater, batter-mixer, and churn	T. E. Haak	325,674	Sept. 8	606	154	32	1135
Egg boiler and caster	M. E. Tisdale	318,323	May 26	2138	576	31	943
Egg-boiler. Automatic	G. L. Dale	328,110	Oct. 13	769	205	33	149
Egg-box	W. C. Gaskill	324,629	Aug. 25	1953	536	32	908
Egg-carrier	J. A. Berry	312,319	Feb. 17	1185	524	30	584
Egg-carrier	J. Burns	315,476	Apr. 14	684	181	31	129
Egg-carrier	J. L. Joyce	314,942	Mar. 31	2594	687	30	1398
Egg-carrier	R. Keith	325,936	Sept. 8	945	940	32	1197
Egg-carriers. Fastening for	T. W. Wells	324,619	Aug. 18	1657	457	32	846
Egg-case-cover fastener	W. B. Smith	331,916	Dec. 8	993	257	33	1184
Egg-holder	R. Keith	325,935	Sept. 8	944	229	32	1197
Egg-packer	H. Handv	322,444	July 21	1394	366	32	270
Egg-poacher	W. H. Silver	320,259	Nov. 3	587	150	33	615
Egg-preserver. Rotary	G. W. Baumgartner	333,100	Dec. 29	2676	702	33	1503
Egg-preserver. Rotating	J. Maguire	313,435	Mar. 3	562	144	30	680
Egg-preserving apparatus	G. B. Hanks	333,069	Dec. 22	2924	688	33	1488
Egg-tester	W. Kirkpatrick	317,462	May 5	726	183	31	634
Egg-tester	C. Marti	326,763	Sept. 22	2068	542	32	1419
Egg-timer	W. H. Silver	333,350	Dec. 29	3025	790	33	1565
Eggs. Composition for preserving	C. U. Chamberlin	311,470	Feb. 3	12	30	33	351
Eggs. Compound for preserving	L. I. Bodenhamer	326,895	Sept. 22	2280	661	32	1454
Eggs. Device for preserving	F. D. Griffin	329,387	Oct. 27	2563	639	31	477
Ejector	W. T. Messinger	316,204	Apr. 28	2523	659	31	477
Ejector and injector. Combined	D. M. Fergus and J. A. Griffiths	323,503	Aug. 4	158	47	32	552
Ejector for draining cellars. Fluid	G. Haydn	318,185	May 19	1678	450	31	849
Ejector for vacuum-brakes	J. Gresham	312,991	Feb. 24	2075	506	30	755
Ejector. Hydraulic	H. H. Gorrings and A. O. Tengvall	314,237	Mar. 24	1619	428	30	1103
Ejector. Perfume	R. F. Fisher	323,439	Aug. 4	35	9	32	289
Elastic fabric. Machine for crimping and preparing	G. Schilling	315,642	Apr. 14	1194	311	31	224
Elastic gore for wearing-apparel	M. Cohn	332,492	Dec. 15	1804	474	33	1333
Elastic-tired wheel	W. H. Chapin	323,635	Aug. 4	335	95	32	584
Elastic woven fabric	W. E. Jefferson	314,581	Mar. 31	2089	558	30	1217
Election-slip	C. X. Machris and J. F. Haacker	318,769	May 26	2465	660 661	31	1001
Electric alarm	J. J. Wood	325,639	Sept. 1	558	142	32	1121
Electric alarm and signal	H. C. Roome	316,183	Apr. 21	1667	437	31	316
Electric apparatus. Automatic cut-out for	J. Du Shane	312,965	Feb. 24	2067	564	30	754
Electric-apparatus cut-out	S. H. Short	312,242	Feb. 10	1065	293	30	554
Electric-apparatus protector	T. N. Vail	323,214	July 14	1093	284	32	908
Electric-arc light	C. Lever	322,115	July 14	968	262	32	185

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Electric-arc-light cables. Joint for	W. R. Patterson.	311,914	Feb. 10	608	167	30	469
Electric batteries. Connector for	G. Otto	324,410	Aug. 18	1377	375	32	794
Electric battery	E. Bazin	316,436	Apr. 28	2019	530	31	384
Electric battery	A. Haid	315,937	Apr. 14	1333	347	31	248
Electric battery	E. G. Hammer.	326,033	Sept. 8	1079	275	32	1221
Electric battery	C. W. Holtzer	327,878	Oct. 6	477	124	33	85
Electric battery	T. L. Kauffer	328,687	Oct. 20	1559	406	33	298
Electric battery	T. L. Kauffer	328,948	Oct. 27	1967	498	33	369
Electric battery	M. J. Myers	319,923	June 9	1297	342	31	1293
Electric battery	I. L. Roberts	311,853	Feb. 3	508		30	444
Electric battery	I. L. Roberts	314,722	Mar. 31	2273	603 604	30	1250
Electric battery	A. M. Young	311,630	Feb. 3	227	64	30	391
Electric battery. Rotary	E. Bazin	316,437	Apr. 28	2020	530	31	384
Electric cable	H. A. Clark	311,174	Jan. 27	1349	370	30	269
Electric cable	P. B. Delany	320,229	June 16	1718	457	31	1376
Electric cable	W. H. Eckert, J. A. Seely, and E. A. Eckert.	313,305	Mar. 3	391	96, 97	30	847
Electric cable	H. C. Spalding.	327,493	Sept. 29	3055	796	32	1598
Electric cable	H. C. Spalding.	327,494	Sept. 29	3057	797	32	1599
Electric cable. Composite	H. C. Spalding.	327,473	Sept. 29	3053	792	32	1594
Electric-cable hanger	W. H. Eckert, J. A. Seely, and E. A. Eckert.	313,410	Mar. 3	518	136	30	874
Electric-cable joint	W. R. Patterson.	321,240	June 30	3094	823	31	1644
Electric cable. Subterranean	H. C. Spalding.	327,483	Sept. 29	3043	794	32	1596
Electric-cable support	E. M. Carhart	324,225	Aug. 11	1123	305	32	739
Electric cables. Testing	W. R. Patterson.	330,048	Nov. 10	847	218	33	671
Electric circuit	H. F. Campbell.	313,053	Mar. 3	18	5	30	782
Electric circuit	W. A. Shaw	311,682	Feb. 3	292	80	30	404
Electric circuit	H. C. Spalding.	327,495	Sept. 29	3058	797	32	1599
Electric circuit	H. C. Spalding.	327,497	Sept. 29	3060	798	32	1599
Electric circuit-breaker	C. L. Bruns	329,808	Nov. 3	516	131 132	33	602
Electric-circuit connection	T. T. Smith	311,616	Feb. 3	208	50	30	368
Electric-circuit cut-out	E. Thomson and E. W. Rice.	320,017	June 16	1436	377	31	1325
Electric-circuit opener	W. H. Sawyer	311,681	Feb. 3	289	80	30	404
Electric-circuit safety device	H. C. Spalding.	327,496	Sept. 29	3061	798	32	1599
Electric-circuit safety device	H. C. Spalding.	327,499	Sept. 29	3063	798	32	1600
Electric-circuit safety device	H. C. Spalding.	327,500	Sept. 29	3064	799	32	1600
Electric circuits. Automatic cut-out for	J. B. May	313,091	Mar. 3	69	19	30	790
Electric circuits. Automatic responding-instrument for	A. G. Holcombe	319,718	June 9	1012	268	31	1243
Electric circuits. Device for making and breaking	H. P. Brown.	320,466	Nov. 17	1407	374	33	788
Electric circuits. Safety-box for	W. L. Stevens.	316,077	Apr. 21	1522	397	31	288
Electric circuits. Safety-catch plug for	S. Bergmann	310,384	June 2	547	149	31	1152
Electric circuits. Switch or circuit-breaker for	E. Weston	316,097	Apr. 21	1552	404	31	294
Electric conductor	L. Daft	320,632	June 23	2312	610	31	1491
Electric conductor	R. A. Denison	323,920	Aug. 11	697	195	32	682
Electric conductor. Subterranean	W. R. Patterson. (Reissue).	10,563	Feb. 24	2150	585	30	769
Electric conductor. Underground	H. C. Spalding.	327,485	Sept. 29	3045	795	32	1596
Electric conductor. Underground	H. C. Spalding.	327,480	Sept. 29	3040	794	32	1595
Electric conductors. Underground conduit for	G. S. Cox	327,383	Sept. 29	2927	763 764	32	1576
Electric conductors. Underground housing and insulation for	E. C. Townsend	310,748	Jan. 13	754	205 206	30	149
Electric contact-breaker	G. S. Maxwell	313,605	Mar. 10	772	203	30	930
Electric cord. Metal-tipped	W. H. Sawyer	324,171	Aug. 11	1035	283	32	722
Electric coupling	T. T. Smith	315,673	Apr. 14	964	252	31	180
Electric-current meter	J. J. Green	327,391	Sept. 29	2937	766	32	1577
Electric-current meter	C. J. Van Depoele	325,225	Aug. 25	2473	680	32	1005
Electric current to moving objects. Apparatus for the transmission of an	L. Goldberg and A. L. Fyfe	316,139	Apr. 21	1615	422 423	31	306
Electric currents. Apparatus for utilizing the current force of flowing water in producing	A. Man	313,746	Mar. 10	962	248 249	30	964
Electric currents. System of generating and regulating	E. Weston	310,763	Jan. 13	774	210	30	152
Electric cut-out	W. M. Thomas	316,502	Apr. 28	2107	554	31	400
Electric distribution. System of	E. Thomson	322,138	July 14	1003	261	32	191
Electric distribution. System of	E. Thomson	322,139	July 14	1005	261	32	191
Electric earth-battery	G. F. Dieckmann	329,724	Nov. 3	403	103	33	582
Electric elevator	S. S. Wheeler. (Reissue).	10,585	Apr. 21	2009	528	31	375
Electric elevator	S. S. Wheeler	324,621	Aug. 18	1660	459	32	847
Electric engine	C. A. Jackson	320,137	June 16	1600	423 424	31	1354
Electric engine	W. A. J. Kohrn	319,912	June 9	1285	339	31	1291
Electric generator or spark-producing apparatus	C. L. Clarke	324,010	Aug. 11	810	226	32	683
Electric indicating apparatus	M. W. Grovesteen	322,818	July 21	1888	501 502	32	359
Electric light	C. F. Beck	322,033	July 14	857	223	32	164
Electric light	W. E. Sawyer and A. Maa	317,676	May 12	1004	260	31	713
Electric-light apparatus	T. T. Smith	315,674	Apr. 14	966	253	31	181
Electric-light cables. Terminal for	W. R. Patterson.	324,413	Aug. 18	1381	276	32	795
Electric-light circuits. Socket and connection for	G. Hess	325,540	Sept. 1	437	108 109	32	1100
Electric-light regulator	P. Lange	330,244	Nov. 10	1097	290 291	33	722
Electric-light regulator	W. J. Paine	321,843	July 7	603	156	32	110
Electric-light regulator	W. J. Paine	321,844	July 7	604	157	32	110
Electric-light regulator	W. J. and S. B. Paine	321,748	July 7	452	120 121	32	84
Electric-light support	C. L. Travis	329,510	Nov. 3	114	30	33	527
Electric-light tower	J. S. Adams	311,166	Jan. 27	1328	365 366	30	265

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Electric lights. Apparatus for treating carbons for incandescent	E. A. Colby	312,552	Feb. 17	1503	410	30	643
Electric lights. Circuit for arc and incandescent	H. P. Brown	325,389	Sept. 1	230	59	33	1058
Electric lights. Holder for incandescent	O. A. Mooses	322,744	July 21	1795	474	32	342
Electric lights. Protecting incandescent	N. S. White	314,908	Mar. 17	1580	418	30	1067
Electric lights. Regulating	W. J. Paine	321,845	July 7	607	157	32	111
Electric lights. Regulating	W. J. Paine	321,846	July 7	609	157	32	111
Electric lights. Regulating	W. J. and S. B. Paine	321,749	July 7	457	121 122	32	55
Electric lights. Suspending	W. H. O'Beirne	314,976	Mar. 31	2643	689	30	1316
Electric lights. Wiring interiors for	L. Stieringer and J. H. Vail	317,879	May 12	1269	338	31	764
Electric lighting apparatus	H. B. Gale	319,573	June 9	816	217	31	1202
Electric lighting by secondary batteries. System of	A. H. Bauer	312,698	Feb. 24	1689	465	30	686
Electric lighting. Circuit for systems of	W. M. Thomas	312,589	Feb. 17	1552	422	30	653
Electric-lighting circuits. System of distribution for	J. G. Allen	317,960	May 19	1380	373	31	795
Electric lighting. Incandescent	H. P. Brown	330,464	Nov. 17	1400	372 373	33	787
Electric-lighting system	W. S. Andrews and T. Spencer	318,157	May 19	1646	440	31	842
Electric lighting system	H. P. Brown	330,465	Nov. 17	1401	373	33	787
Electric lighting system	T. A. Edison	328,573	Oct. 20	1397	364	33	270
Electric lighting system	T. A. Edison	328,574	Oct. 20	1399	364	33	270
Electric lighting system	T. A. Edison	328,575	Oct. 20	1400	364	33	270
Electric-lighting system	W. M. Thomas	319,347	June 2	501	136 137	31	1143
Electric lighting system	E. Thomson	321,461	July 7	69	20	32	16
Electric-lighting system	E. Weston	316,707	Apr. 28	2390	623	31	453
Electric-lighting system	E. Weston	316,708	Apr. 28	2391	623	31	453
Electric-lighting system	E. Weston	316,709	Apr. 28	2393	624	31	453
Electric lighting system and switch	W. S. Andrews	317,610	May 12	921	236	31	698
Electric lighting. System of	O. Gassett	310,663	Jan. 13	643	177	30	128
Electric lighting systems. Regulator for incandescent	C. J. Van Depoele	323,981	Aug. 11	777	216	32	676
Electric lighting. Temporary	L. Goldenberg	324,551	Aug. 18	1554	429	32	827
Electric lines. Support for underground	S. J. Fague	317,326	May 5	545	139	31	623
Electric lock	C. Blattmann	320,617	June 23	2293	605	31	1428
Electric machine and electric motor. Dynamo	A. Reckenzaun	313,884	Mar. 17	1159	302	30	1009
Electric machine. Dynamo	C. M. Ball	329,112	Oct. 27	2167	561	33	415
Electric machine. Dynamo	H. R. Boissier	310,782	Jan. 13	797	216	30	157
Electric machine. Dynamo	L. Bollmann	323,168	July 28	2315	612 613	32	445
Electric machine. Dynamo	J. J. Bradley	324,075	Aug. 11	904	250	32	608
Electric machine. Dynamo	E. P. Clark	330,095	Nov. 10	916	238	33	648
Electric machine. Dynamo	H. Cushman and J. P. Hall	324,752	Aug. 18	1835	506	32	880
Electric machine. Dynamo	J. S. Du Bois	318,094	May 19	1563	419	31	826
Electric machine. Dynamo	W. P. Freeman	313,488	Mar. 10	625	162	30	902
Electric machine. Dynamo	E. Granert	327,790	Oct. 6	373	96	33	65
Electric machine. Dynamo	G. A. Hamilton	319,578	June 9	826	219	31	1210
Electric machine. Dynamo	C. F. Heinrichs	317,779	May 12	1135	300 301	31	739
Electric machine. Dynamo	E. Jones	321,609	July 7	272	72 73	32	52
Electric machine. Dynamo	O. F. Jönsson	330,836	Nov. 17	1868	504 505	33	877
Electric machine. Dynamo	R. H. Mather	326,575	Sept. 22	1793	470	32	1369
Electric machine. Dynamo	W. M. Mordey	312,745	Feb. 24	1756	483 484	30	699
Electric machine. Dynamo	C. L. F. Mueller	325,619	Sept. 1	530	134 135	32	1116
Electric machine. Dynamo	H. Müller	331,726	Dec. 1	727	181 182	33	1126
Electric machine. Dynamo	B. F. Orton	331,815	Dec. 8	839	214 215	33	1155
Electric machine. Dynamo	E. W. Rice, Jr.	328,253	Oct. 13	964	251	33	183
Electric machine. Dynamo	J. M. Rivera	320,170	June 16	1639	436	31	1362
Electric machine. Dynamo	C. F. Ruset	322,310	July 14	1206	317	32	229
Electric machine. Dynamo	W. B. Smit and A. Pot	326,796	Sept. 23	2135	555 556	32	1428
Electric machine. Dynamo	W. Thomson	333,174	Dec. 29	2781	728	33	1521
Electric machine. Dynamo	A. G. Waterhouse	318,671	May 26	2333	623	31	977
Electric machine. Dynamo	F. G. Waterhouse	311,547	Feb. 3	123	36	30	372
Electric machine. Dynamo	F. G. Waterhouse	332,685	Dec. 15	2094	550	33	1324
Electric machine. Dynamo	E. Weston	310,762	Jan. 13	771	209	30	152
Electric machine. Dynamo	E. R. Whitney	322,230	July 14	1113	290	32	212
Electric machine. Dynamo	L. G. Woolley	319,540	June 9	775	206	31	1200
Electric machine or motor. Dynamo	B. F. Orton	331,818	Dec. 8	850	218	33	1157
Electric-machine regulator. Dynamo	C. L. Buckingham	320,840	June 23	2560	678	31	1541
Electric-machine regulator. Dynamo	C. L. Buckingham	320,842	June 23	2564	678 679	31	1541
Electric-machine regulator. Dynamo	P. Diehl	324,666	Aug. 18	1725	475	32	858
Electric-machine regulator. Dynamo	M. G. Farmer	320,234	June 16	1725	458	31	1378
Electric-machine regulator. Dynamo	B. F. Orton	311,141	Jan. 20	1296	357	30	253
Electric-machine regulator. Dynamo	B. F. Orton	331,814	Dec. 8	837	214	33	1155
Electric-machine regulator. Dynamo	B. F. Orton	331,816	Dec. 8	845	216 217	33	1156
Electric-machine regulator. Dynamo	W. M. Schlesinger	329,681	Nov. 3	344	88	33	570
Electric-machine regulator. Dynamo	W. H. Schlesinger	331,552	Dec. 1	418	112	33	1074
Electric-machine regulator. Dynamo	C. E. Scribner	330,053	Nov. 10	852	220	33	673
Electric-machine regulator. Dynamo	E. Thomson	324,501	Aug. 18	1491	408	32	815
Electric-machine regulator. Dynamo	C. J. Van Depoele	325,133	Aug. 25	2349	648	32	963
Electric-machine regulator. Dynamo	F. G. Waterhouse	313,561	Mar. 10	715	187	30	919
Electric-machine regulator. Dynamo	E. Weston	316,089	Apr. 21	1538	402	31	292
Electric machine regulator. Dynamo or magneto	R. R. Moffatt	323,059	July 28	2250	595	32	432

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Electric machines and electric motors. Armature for dynamo.	B. F. Orton	323,362	July 28	2678	713	32	510
Electric machines and electric motors. Armature for dynamo.	S. F. Van Choate	325,714	Sept. 8	673	169	32	1146
Electric machines and motors. Armature for dynamo.	B. F. Orton	331,155	Nov. 24	2297	622	33	964
Electric machines and motors. Regulator for dynamo.	R. H. Mather	324,662	Aug. 25	1994	548	32	916
Electric machines. Armature-core for dynamo.	M. M. M. Slattery	330,433	Nov. 17	1350	362	33	780
Electric machines. Armature for dynamo.	A. H. Bowman	320,754	June 23	2458	652	31	1522
Electric machines. Armature for dynamo.	C. F. Brush	310,676	Jan. 20	917	250	30	185
Electric machines. Armature for dynamo.	C. F. Brush	312,807	Feb. 24	1835	503	30	713
Electric machines. Armature for dynamo.	W. F. Buckley	315,903	Apr. 14	1290	336	31	240
Electric machines. Armature for dynamo.	F. K. Fitch	312,111	Feb. 10	874	239	30	519
Electric machines. Armature for dynamo.	C. L. Healy	314,242	Mar. 24	1625	430	30	1105
Electric machines. Armature for dynamo.	C. T. Jackson	331,502	Dec. 1	347	94	33	1060
Electric machines. Armature for dynamo.	C. D. Jenney	330,490	Nov. 17	1436	324	33	795
Electric machines. Armature for dynamo.	B. F. Orton	323,363	July 28	2679	713	32	510
Electric machines. Armature for dynamo.	D. A. Schnyler	318,664	May 26	2223	621	31	975
Electric machines. Armature for dynamo.	W. Stanley, Jr	313,694	Mar. 17	1170	305	30	1011
Electric machines. Automatic commutator-adjuster for dynamo.	E. Thomson	323,976	Aug. 11	770	215	32	675
Electric machines. Automatic stop apparatus for motors driving dynamo.	O. F. Jönsson	326,223	Sept. 15	1343	347	32	1277
Electric machines. Brush-holder for dynamo.	H. R. Boissier	310,780	Jan. 13	795	215	30	156
Electric machines. Commutator-brush for dynamo or magneto	J. A. Powers	324,590	Aug. 18	1606	442	32	838
Electric machines. Commutator for dynamo.	T. A. Edison	328,572	Oct. 20	1396	363	33	269
Electric machines. Commutator for dynamo.	W. P. Freeman	313,469	Mar. 10	626	163	30	902
Electric machines. Commutator for dynamo.	C. D. Jenney	332,399	Dec. 15	1688	442	33	1313
Electric machines. Commutator for dynamo.	B. F. Orton	323,361	July 28	2676	713	32	510
Electric machines. Commutator for dynamo.	C. E. Piper	328,859	Oct. 20	1769	461	33	338
Electric machines. Core for the armatures of dynamo.	H. J. Müller	320,158	June 16	1625	432	31	1359
Electric machines. Current-motor for dynamo.	W. Main	328,418	Oct. 13	1195	309	33	226
Electric machines. Current-regulator for dynamo.	J. A. Lannert	324,666	Aug. 18	1571	434	32	830
Electric machines. Current-regulator for dynamo.	J. J. Wood	326,894	Sept. 22	2275	595	32	1453
Electric machines. Cut-out for dynamo.	C. J. Van Depoele	323,470	Aug. 4	111	32	32	542
Electric machines. Device for preventing sparking in dynamo.	R. H. Mather	321,990	July 14	797	208	32	153
Electric machines. Support for the armatures of dynamo.	R. H. Mather	321,991	July 14	799	208	32	154
Electric machines. Ventilating device for commutators of dynamo.	C. Parham	332,427	Dec. 15	1727	453	33	1359
Electric mat	H. H. Hoffman	332,254	Dec. 15	1493	390	33	1278
Electric meter	J. Cauderay	318,166	May 19	1656	443	31	845
Electric meter	S. D. Mott	333,079	Dec. 22	2639	692	33	1490
Electric meter	J. S. Raworth	332,832	Dec. 22	2280	603	33	1428
Electric motor	P. Diehl	324,667	Aug. 18	1726	475	32	858
Electric motor	M. G. Farmer	323,653	Aug. 4	357	102	32	589
Electric motor	W. S. Hill	331,680	Dec. 8	941	243	33	1174
Electric motor.	M. Immisch	327,797	Oct. 6	383	99	33	67
Electric motor	J. M. Pendleton	321,049	June 30	2849	758	31	1600
Electric motor	C. J. Van Depoele	323,962	Aug. 11	779	217	32	677
Electric motor	L. G. Woolley	318,589	May 26	2233	597	31	957
Electric motor	L. G. Woolley	325,641	Sept. 1	565	144	32	1122
Electric motor and generator	F. J. Sprague	315,181	Apr. 7	277	67	31	50
Electric motor and generator	F. J. Sprague	315,182	Apr. 7	281	67	31	50
Electric motor and other circuits. Switch for	L. W. Stockwell	326,603	Sept. 22	1840	483	32	1376
Electric motor or dynamo-electric machine	W. Main	332,668	Dec. 15	2067	543	33	1379
Electric-motor regulator	M. G. Farmer	323,650	Aug. 4	352	100	32	588
Electric motor. Vibrating	A. L. Parcellle	324,152	Aug. 11	1004	276	32	717
Electric motors, &c. Governor for	W. M. Thomas	316,500	Apr. 28	2104	553	31	399
Electric primer	R. H. S. Thompson	323,974	Aug. 11	766	214	32	674
Electric register and recorder for fares, &c.	E. A. Scales	331,926	Dec. 8	861	221	33	1150
Electric regulator	W. Stanley, Jr	325,576	Sept. 1	480	120	32	1107
Electric responding-signals. Producing.	A. G. Holcombe	321,110	June 30	2936	778	31	1614
Electric signal	H. D. Winton	317,911	May 12	1315	352	31	773
Electric signal and call apparatus	C. A. Smith	328,148	Oct. 13	832	217	33	158
Electric signal apparatus	M. W. and M. F. Parrish	322,474	July 21	1437	377	32	278
Electric signal-controlling apparatus. Automatic	E. R. Gill, Jr	313,720	Mar. 10	919	239	30	956
Electric signal. Visual.	F. M. Godfrey	310,412	Jan. 6	328	90	30	64
Electric signaling apparatus	I. H. Farnham	328,578	Oct. 20	1403	365	33	271
Electric signaling apparatus	F. B. Herzog	314,292	Mar. 24	1696	452	30	1118
Electric signaling apparatus	F. G. Sargent	326,158	Sept. 15	1247	320	32	1259
Electric signaling apparatus	J. P. Tirrell	313,784	Mar. 10	1013	261	30	974
Electric signaling apparatus	J. P. Tirrell	331,463	Dec. 1	300	81	33	1051
Electric signaling apparatus and circuit	F. B. Herzog	315,027	Apr. 7	53	12	31	11
Electric signaling circuit	T. D. Lockwood	314,386	Mar. 24	1823	485	30	1142
Electric switch	L. Daft	320,630	June 23	2310	610	31	1491
Electric switch	L. Daft	322,915	July 28	2042	538	32	394
Electric switch	L. Daft	322,916	July 28	2043	539	32	394
Electric switch	H. K. Goodwin	324,248	Aug. 11	1149	313	32	744
Electric switch	A. J. Holt	318,987	June 2	76	19	31	1062

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Disg.	Vol.	Page.
Electric switch.	H. Lamp.	329,460	Nov. 3	39	11	33	512
Electric switch.	S. S. Leonard.	328,695	Oct. 20	1569	409	33	300
Electric switch.	E. B. Nicolaus.	322,745	July 21	1799	475	32	343
Electric switch.	F. Schaefer.	322,857	July 21	1949	515	32	370
Electric switch.	E. Thomson.	321,463	July 7	75	21	32	16
Electric switch-board.	T. N. Vail.	330,644	Nov. 17	1618	436	33	831
Electric switch or circuit controller.	M. J. Wightman.	330,949	Nov. 24	2025	547	33	914
Electric switch plug.	J. H. Bunnell.	325,653	Sept. 8	522	147	32	1131
Electric switch-signals. Circuit for.	A. W. Hall.	315,498	Apr. 14	721	191	31	135
Electric way.	W. E. Banta.	318,411	May 19	1984	534	31	905
Electric-wire conduit.	D. Brooks, Jr.	314,791	Mar. 31	2390	632	30	1272
Electric-wire conduit.	J. S. Du Bois.	314,668	Mar. 31	2074	554	30	1214
Electric-wire conduit.	R. R. Taylor.	332,761	Dec. 22	2206	582	33	1412
Electric wires. Aerial conduit for.	D. B. Macquarrie.	315,526	Apr. 14	765	202	31	143
Electric wires. Conduit for underground.	J. Teggart.	321,865	July 7	633	163	32	115
Electric wires. Laying.	W. D. Smith.	325,984	Sept. 8	1009	258	32	1209
Electric wires to poles. Device for securing.	G. L. Broomehall.	310,931	Jan. 20	923	269	30	197
Electric wires. Underground conduit for.	G. B. Pennock.	322,712	Oct. 20	1594	415	33	304
Electric wires. Underground conduit for.	W. Walter.	316,700	Apr. 28	2379	619	31	451
Electric wires. Underground conduit for.	T. D. Williams.	330,577	Nov. 10	1139	303	33	730
Electrical accumulator.	J. J. Barrier, F. Tourville, and J. E. Legay.	317,487	May 12	764	194	31	670
Electrical alarm for window-screens.	H. Garrett.	324,019	Aug. 11	822	229	32	685
Electrical apparatus. Demonstrative.	J. D. Culp.	311,725	Feb. 3	341	94	30	413
Electrical apparatus for the propulsion of vehicles.	F. Wynne.	324,447	Aug. 18	1420	368	32	808
Electrical apparatus protector.	C. F. Elden.	329,152	Oct. 27	2213	573	33	423
Electrical cable.	H. A. Clark.	310,579	Jan. 20	919	250	30	185
Electrical cable.	H. C. Spalding.	327,491	Sept. 29	3053	796	32	1598
Electrical cable.	H. C. Spalding.	327,493	Sept. 29	3056	797	32	1598
Electrical cable. Anti-induction.	H. C. Spalding.	327,488	Sept. 29	3049	796	32	1597
Electrical cable. Compound.	H. C. Spalding.	327,459	Sept. 29	3017	788	32	1592
Electrical cable. Compound.	H. C. Spalding.	327,476	Sept. 29	3036	793	32	1595
Electrical cable. Multiplex.	H. C. Spalding.	327,473	Sept. 29	3033	792	32	1594
Electrical cable. Submarine.	H. C. Spalding.	327,484	Sept. 29	3044	795	32	1596
Electrical circuit.	H. C. Spalding.	327,496	Sept. 29	3059	798	32	1599
Electrical circuits. Apparatus for testing.	I. H. Farnham.	325,520	Sept. 1	413	102	32	1085
Electrical circuits. Safety device for.	E. Thomson.	327,039	Sept. 29	9466	644	32	1495
Electrical communication with moving vehicles. Apparatus for maintaining.	L. J. Phelps.	329,076	Oct. 27	2111	547	33	404
Electrical communication with moving vehicles. Apparatus for maintaining.	L. J. Phelps.	329,077	Oct. 27	2112	547	33	405
Electrical conducting material.	C. S. Bradley.	312,503	Feb. 24	1831		30	712
Electrical conducting system.	J. Krueel.	322,385	July 14	1310	341	32	219
Electrical conductor.	E. Clark.	333,110	Dec. 29	2894	706	33	1506
Electrical conductor.	E. Clark and T. A. Richards.	333,394	Dec. 29	3076	803	33	1574
Electrical conductor.	W. H. Sawyer.	319,326	June 2	477	129	31	1139
Electrical conductor.	S. F. Shelbourne.	313,380	Mar. 3	478	125	30	886
Electrical conductor.	H. C. Spalding.	327,482	Sept. 29	3042	794	32	1596
Electrical conductor.	C. M. Thompson and C. R. Eberle.	312,673	Feb. 24	1657	457	30	822
Electrical conductor.	A. C. Tichenor.	330,071	Nov. 10	826	229	33	680
Electrical conductor.	H. C. Watt.	310,345	Jan. 6	252	60	30	48
Electrical conductor-binder.	J. Brady.	310,177	Jan. 6	22	6	30	7
Electrical-conductor conduit.	H. L. Caples and W. W. Lewis.	329,887	Nov. 10	635	161	33	630
Electrical-conductor splice.	H. C. Spalding.	327,479	Sept. 29	3039	793	32	1595
Electrical conductor. Underground.	D. Brooks.	325,495	Sept. 1	373	91	32	1086
Electrical conductor. Underground.	H. C. Spalding.	327,481	Sept. 29	3042	794	32	1595
Electrical conductors. Apparatus for laying underground lines of.	H. C. Spalding.	327,478	Sept. 29	3038	793	32	1595
Electrical conductors. Conduit for.	W. Cohlman.	319,197	June 2	317	84	31	1107
Electrical conductors. Conduit for.	C. G. Perkins.	319,998	June 16	1412	371	31	1321
Electrical conductors. Conduit for subterranean.	J. A. Barrett.	332,319	Dec. 15	1574	413	33	1294
Electrical conductors. Connection for.	E. H. Johnson.	311,130	Jan. 20	1281	352	30	820
Electrical conductors. Contact device for suspended.	C. J. Van Depoele.	331,585	Dec. 1	515	125	33	1088
Electrical conductors from the heat of subterranean steam-pipes. Protecting.	H. C. Spalding.	327,468	Sept. 29	3028	790	32	1593
Electrical conductors into conduits. Driving.	D. N. Hurlbut.	321,363	June 30	3248	867	31	1674
Electrical conductors. Making.	W. S. Platt.	320,684	June 23	2379	629	31	1505
Electrical conductors. Making.	J. J. Williamson.	319,536	June 9	769	205	31	1189
Electrical conductors. Manufacture of sheathed and insulated.	J. Tatham.	327,971	Oct. 6	605	158	33	109
Electrical conductors. Pipe for underground.	H. C. Spalding.	327,475	Sept. 29	3035	793	32	1594
Electrical conductors. Underground conduit for.	G. H. Benjamin.	315,225	Apr. 7	349	85	31	63
Electrical conductors. Underground conduit for.	W. B. Rogers.	323,964	Aug. 11	754	210	32	673
Electrical conductors. Underground conduit for.	E. A. Street and R. W. Fleming.	311,918	Dec. 8	995	238	33	1184
Electrical conductors underground. Protecting.	H. C. Spalding.	327,463	Sept. 29	3021	789	32	1592
Electrical conductors. Vulcanization of rubber coverings for.	J. J. C. and M. Smith.	317,587	May 12	887		31	692
Electrical conduit and discharger.	E. H. Hoffmann.	320,253	June 16	1746	465	31	1382
Electrical connecting-cord.	W. H. Sawyer.	311,611	Feb. 3	203	57	30	387
Electrical contact-point.	E. T. Gilliland.	324,678	Aug. 18	1741	479	32	662
Electrical conveyer. Suspended.	C. J. Van Depoele.	324,954	Aug. 11	751	217	32	677
Electrical device to enable showmen to walk on the ceiling.	C. H. Newman and W. Berrigan.	320,275	June 16	1787	475	31	1386
Electrical distribution. System of.	W. S. Andrews.	317,700	May 12	1034	268	31	719
Electrical distribution. System of.	H. M. Byllesby.	329,621	Nov. 3	269	70	33	556
Electrical generator. Frictional.	P. Atkinson.	331,754	Dec. 8	768	194	33	1143
Electrical indicator.	M. Bacon.	324,635	Aug. 18	1687	465	32	851
Electrical indicator.	C. H. Pond.	331,650	Dec. 1	612	151	33	1106

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &	Vol.	Page.
Electrical indicator	F. J. Sprague	314,891	Mar. 31	2519	667	30	1296
Electrical instruments. Protector for	D. J. Cartwright	320,912	June 30	2671	709	31	1567
Electrical lighting apparatus	E. Arnould	319,360	June 2	542	148	31	1151
Electrical motor	E. Weston	330,451	Nov. 17	1386	369	33	784
Electrical purposes. Clamp for	W. S. Platt	313,616	Mar. 10	790	207	30	953
Electrical push-button	J. Geary	320,238	June 16	1731	459	31	1379
Electrical reporting. Receiving instrument for	W. M. Pease	312,503	Feb. 17	1442	396	30	631
Electrical switch-board	A. C. Mather	323,182	July 28	2423	642	32	465
Electrical switch-board	T. J. Perrin	315,331	Apr. 7	474	120	31	86
Electrical switch or circuit controller	E. Weston	316,096	Apr. 21	1550	404	31	294
Electrical synchronous movement	A. L. Parceller	324,153	Aug. 11	1008	277	32	718
Electrical synchronous movements. Effecting	P. B. Delany	322,690	July 21	1721	435	32	330
Electrical synchronous movements. Effecting	P. B. Delany	322,691	July 21	1723	435	32	330
Electrical transmission of power	W. M. Schlesinger	332,009	Dec. 8	1127	294	33	1209
Electrical-wire conduit	M. H. Devey	314,635	Mar. 31	2190	580	30	1234
Electrical wires. Metallic curbing for containing	P. H. Griffin	310,271	Jan. 6	148	41	30	30
Electrical wires. Supporting	J. W. Tringham	330,173	Nov. 10	1013	264	33	706
Electrically maintaining synchronous movements	P. B. Delany	322,692	July 21	1725	436	32	331
Electricity. Apparatus for distributing	O. Gassett	310,664	Jan. 13	645	177	30	128
Electricity. Apparatus for measuring	J. Cauderay	310,252	Jan. 6	117	33	30	24
Electricity. Apparatus for the distribution of	O. Gassett	310,665	Jan. 13	647	177	30	129
Electricity. Apparatus for transmission of messages by	G. T. Woods	315,368	Apr. 7	525	134	31	95
(Electricity.) Device for protection of men from disastrous effects of high-tension currents.	P. B. Delany	318,172	May 19	1665	446	31	846
Electricity. System for the transmission of power by	W. L. Stevens	316,076	Apr. 21	1519	396	31	288
Electricity. System for the transmission of power by	E. Weston	316,090	Apr. 21	1530	402	31	292
Electro-dynamic motor	F. J. Sprague	313,546	Mar. 10	695	182	30	915
Electro-dynamic motor	F. J. Sprague	315,179	Apr. 7	264	64, 65	31	49
Electro-dynamic motor	F. J. Sprague	315,180	Apr. 7	271	56	31	49
Electro-dynamic motor	F. J. Sprague	315,183	Apr. 7	264	67	31	51
Electro-dynamic motor	F. J. Sprague	321,147	June 30	2979	769	31	1622
Electro-dynamic motor	F. J. Sprague	321,148	June 30	2981	769	31	1622
Electro-dynamic motor	F. J. Sprague	321,150	June 30	2984	790	31	1623
Electro-dynamic motor	F. J. Sprague	323,460	Aug. 4	99	29	32	541
Electro-dynamic motor	F. J. Sprague	324,891	Aug. 25	2035	557	32	923
Electro-dynamic motors. Regulator for	F. J. Sprague	313,247	Mar. 3	315	78	30	834
Electro-magnetic comb	W. T. McGinnis	312,487	Feb. 17	1412	389	30	626
Electro-magnetic log	L. B. Favor and C. A. Jacobs	326,207	Sept. 15	1323	343	32	1273
Electro-magnetic motor	M. G. Farmer	323,632	Aug. 4	355	101	32	588
Electro-magnetic motor	C. G. Perkins	315,161	Apr. 7	243	59	31	44
Electro-magnetic motor	E. Weston	316,091	Apr. 21	1543	403	31	293
Electro-magnetic motor	E. Weston	316,092	Apr. 21	1544	403	31	293
Electro-magnetic motor	E. Weston	316,093	Apr. 21	1546	403	31	294
Electro-magnetic motor. Reciprocating	E. Knabe, Jr.	322,296	July 14	1188	311	32	226
Electro-magnetic reciprocating engine	C. J. Van Depoele	317,249	May 5	435	109	31	602
Electro-magnetic reciprocating engine	C. J. Van Depoele	320,515	June 23	2153	568	31	1463
Electro-medical battery	T. H. Hicks	329,310	Oct. 27	2440	632	33	466
Electro-motive force. Conveying persons, &c., by	E. W. Siemens	321,934	July 7	720	188	32	130
Electrode. Battery	J. B. Odell	327,582	Oct. 6	106	24	33	20
Electrode. Carbon battery	H. F. B. Schaefer	318,300	May 19	1528	490	31	878
Electrode for electrolytical purposes. Carbon	H. Leipmann	320,247	Nov. 10	1100	291	33	723
Electrodes for secondary batteries. Manufacturing	E. Jones	321,408	Dec. 1	217	57	33	1036
Electroplating apparatus	D. Appleton	313,569	Mar. 10	725	190	30	922
Electroplating. Apparatus for	H. R. Boissier	331,009	Dec. 1	546	133	33	1093
Electrotype-block	P. Gleeson	316,453	Apr. 28	2045	536	31	388
Electrotype-plate and holder	A. W. Marshall	312,569	Feb. 17	1526	416	30	648
Electrotype shell and base	G. W. and J. R. Cummings	313,812	Mar. 10	1051	269	30	981
Elevating and carrying apparatus	J. S. Ford	333,456	Dec. 29	8158	636	33	1587
Elevating mechanism for buildings	W. B. Hayden	318,373	May 19	1933	521	31	896
Elevator:					522		
See Baggage-elevator.	Hay-rack elevator.						
Barrel-elevator.	Hod-elevator.						
Bucket-elevator.	Hydraulic elevator.						
Cash-carrier elevator.	Liquid-elevator.						
Coal-elevator.	Lumber-elevator.						
Cotton-elevator.	Portable elevator.						
Electric elevator.	Ram-elevator.						
Grain-elevator.	Thrashing-machine elevator.						
Hay-elevator.	Tobacco-elevator.						
Hay and wheat elevator.	Water-elevator.						
Elevator	C. L. Anderson and C. F. Reed	321,567	July 7	219	58, 59	32	43
Elevator	W. M. Dabbott and J. H. Roberts	320,745	June 23	2446	649	31	1319
Elevator	T. Bell	313,162	Mar. 3	172	42	30	809
Elevator	V. Borst	329,129	Oct. 27	2184	566	33	417
Elevator	P. F. Corbett	310,183	Jan. 6	33	9, 10	30	8
Elevator	H. M. and R. F. Darling	328,294	Oct. 13	1012	263	33	192
Elevator	L. Daso	323,912	Aug. 11	695	195	32	661
Elevator	C. W. Hays	311,489	Feb. 3	37	11	30	356
Elevator	M. N. Hutchinson	333,468	Dec. 29	3178	630	33	1590
Elevator	E. M. Ingoldsby	328,311	Oct. 13	1036	268	33	196

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Disg.	Vol.	Page.
Elevator	D. Kennedy	315,634	Apr. 14	917	240	31	171
Elevator	F. S. King	316,152	Apr. 21	1634	427	31	310
Elevator	W. A. Koneman	319,099	June 2	206	54	31	1083
Elevator	B. A. Legg	330,792	Nov. 17	1813	488 489	33	867
Elevator	C. W. Levalley	311,335	Jan. 27	1585	433	30	311
Elevator	C. W. Levalley	311,336	Jan. 27	1586	434	30	312
Elevator	C. W. Levalley	311,337	Jan. 27	1588	434	30	313
Elevator	V. W. Mason	311,504	Feb. 3	59	18	30	360
Elevator	E. B. Powell	315,166	Apr. 7	248	60	31	45
Elevator	W. F. Rau and C. Münch	311,783	Feb. 3	418	113	30	627
Elevator	H. J. Reedy	325,971	Sept. 8	995	253 254	32	1906
Elevator	G. H. Reynolds	313,241	Mar. 3	308	77	30	633
Elevator	S. T. Richardson	311,369	Jan. 27	1630	446 447	30	380
Elevator	G. H. Roehm	313,687	Mar. 17	1163	303	30	1010
Elevator	I. S. Smith, Sr.	310,738	Jan. 13	741	201	30	147
Elevator	U. P. Smith	314,736	Mar. 31	2228	607	30	1223
Elevator	W. Stevens	330,750	Nov. 17	1765	476	33	658
Elevator and distributor. Combined	J. H. Hunt	331,684	Dec. 8	946	244 245 246	33	1175
Elevator-belts. Slat-attaching device for	D. Maxwell	331,515	Dec. 1	396	98	33	1064
Elevator-brake. Automatic	C. K. Rogers	313,451	Mar. 3	578	149	30	894
Elevator brake mechanism	J. A. Hurley	326,504	Sept. 15	1701	444	32	1344
Elevator-bucket	W. M. Babbott, J. H. Roberts, and C. Banker	317,278	May 5	474	119	31	610
Elevator-bucket	C. Banker and J. H. Roberts	325,478	Sept. 1	353	86	32	1089
Elevator-bucket	W. H. and W. J. Clark	320,760	June 23	2467	654	31	1222
Elevator-bucket	C. M. Thomas	320,897	June 23	2642	701	31	1555
Elevator-buckets. Machine for making	C. Banker and J. H. Roberts	331,109	Nov. 24	2229	605 606	33	962
Elevator-buckets. Machine for making	S. S. Stott and R. Birtwistle	318,582	May 26	2225	594	31	956
Elevator-cage and safety appliance	A. B. See	324,493	Aug. 18	1480	406	32	619
Elevator-cage and safety attachment	G. H. Reynolds	313,240	Mar. 3	303	76	30	632
Elevator-cages, &c. Safety device for	P. F. Laarman	321,303	June 30	3169	845	31	1658
Elevator-cars. Safety attachment for	P. Cohn	315,734	Apr. 14	1055	276	31	198
Elevator-chain	C. W. Levalley	311,334	Jan. 27	1581	432 433	30	311
Elevator fan attachment	R. Marshall	316,633	Apr. 28	2266	596	31	430
Elevator for hoisting and lowering and automatically discharging barrels, &c.	H. McQuire	311,773	Feb. 3	405	110	30	424
Elevator for mining purposes	R. Lee	318,757	May 26	2446	655 656	31	997
Elevator-gate	A. U. Grummann	311,120	Jan. 20	1264	346	30	247
Elevator-gate. Automatic	R. Lade	312,276	Feb. 17	1128	309	30	573
Elevator-gate. Automatic	J. G. Meisner	319,292	June 2	434	116 117	31	1130
Elevator guide-posts. Chair for	C. G. Otis	310,713	Jan. 13	710	194	30	141
Elevator-indicator	Q. N. Evans	327,075	Sept. 29	2512	655	32	1503
Elevator-operating mechanism	N. C. Bossett	332,776	Dec. 22	2224	586 587	33	1415
Elevator safety appliance	G. H. Reynolds	314,721	Mar. 31	2272	603	30	1249
Elevator safety attachment	A. M. Baker	311,279	Jan. 27	1511	412	30	299
Elevator safety-brake	J. W. Metz	324,144	Aug. 11	995	274	32	715
Elevator safety-brake	F. Schnitzlein	316,577	Apr. 28	2196	578	31	417
Elevator safety-catch	H. Albert	331,269	Dec. 1	1	1	33	1001
Elevator safety device	R. M. Curtiss	324,751	Aug. 18	1929	505 506	32	679
Elevator safety device	L. S. Graves	319,420	June 9	694	187	31	1186
Elevator safety device	W. W. Jackson	331,405	Dec. 1	210	55	33	1035
Elevator safety device	J. H. Manning	320,374	June 16	1966	517	31	1421
Elevator safety device	M. L. Wright	317,268	May 5	461	115	31	608
Elevator safety-gate	G. T. Fallis	324,544	Aug. 18	1547	437	32	825
Elevator safety-gate	C. Sorber	328,820	Oct. 20	1720	447	33	330
Elevator-stop. Automatic	J. S. Ashton	331,672	Dec. 1	642	158	33	1110
Elevators and hoists. Automatic safety-brake for	D. C. De la Jeanniere	311,640	Feb. 3	251	70	30	396
Elevators and inclined railways. Safety attachment for	F. Wittram	327,048	Sept. 29	2478	647	32	1497
Elevators. Automatic feeder and register for barrel	J. Meyer	327,007	Sept. 29	2423	633 634	32	1498
Elevators. Automatic safety-guard for	F. P. Hinds	322,452	July 21	1406	368	32	272
Elevators. Controlling the operation of	G. H. Reynolds	317,202	May 5	377	94	31	592
Elevators. Device for preventing accidents in	M. L. Wright	313,242	Mar. 10	1096	284 285	30	988
Elevators. Electrical safety device for	R. M. Curtiss	314,167	Mar. 17	1530	401	30	1078
Elevators, &c. Hydraulic valve for	C. R. Crane	319,678	June 9	935	233	31	1223
Elevators. Machinery for opening and closing automatically safety-covers for	A. J. Blaikie	312,609	Feb. 24	1692	465 466	30	667
Elevators, &c. Valve for hydraulic	G. H. Reynolds	314,720	Mar. 31	2267	602	30	1249
Ellipsograph	A. Marichal	324,395	Aug. 18	1352	368	32	790
Elliptic spring	E. Cliff	326,247	Sept. 22	2205	575	30	1442
Elliptic spring	W. Davison	314,919	Mar. 31	2562	678	30	1369
Elliptic springs. Bar or plate for	H. B. Dye	315,920	Apr. 14	1315	649	31	544
Embalmer's table	H. B. Knowles	316,980	May 5	65	17	31	234
Embalming apparatus	W. T. Baker, A. S. Lovett, and C. D. Van Etten	317,703	May 12	1037	269 270	31	720
Embalming apparatus	P. S. Ensworth	328,577	Oct. 20	1402	365	33	71
Embalming device	C. W. Gath	315,272	Apr. 7	406	101	31	73
Embalming device	J. Jackson	322,541	July 21	1524	402	32	294
Embalming-table	C. M. Linkens	325,550	Sept. 1	451	112 113	32	1168
Embalming-table. Adjustable	G. P. Gaston	322,437	July 21	1378	361	32	268

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Embalming-tables. Arm-rest for.....	J. H. Clarke.....	329,140	Oct. 27	2198	569	33	420
Embalming-tables. Head-rest for.....	C. M. Lukens.....	325,551	Sept. 1	453	113	32	1102
Embossed fabric for decorating walls, &c.....	T. McGovern.....	325,687	Sept. 8	623	158	32	1138
Embossing-machine.....	J. K. Krieg.....	319,417	June 2	589	160	31	1160
Embossing plastic material.....	C. Schwartz.....	332,444	Dec. 15	1747	456	33	1323
Embroidering implement.....	J. C. Rorick.....	313,770	Mar. 10	996	257	30	971
Embroidering-machine.....	J. J. Ebnetter.....	331,953	Dec. 8	1047	272	33	1195
Embroidering-machine.....	J. A. Groebli.....	328,935	Oct. 27	1889	492 493 494 495	33	366
Embroidering-machine.....	J. Sobotka.....	322,860	July 21	1956	518	32	372
Embroidering-machine.....	H. Stöckel.....	332,846	Dec. 22	2309	608 609 610 611	33	1431
Embroidering-machine.....	F. Von Martini.....	332,024	Dec. 8	1152	301 302	33	1213
Embroidering-machine. Hand.....	S. A. Scofield.....	321,318	June 30	3188	850	31	1662
Embroidering-machines. Device for securing the needles in.....	W. H. Farmer.....	322,704	July 21	1745	461	32	334
Embroidery.....	J. Krüsi.....	322,386	July 14	1313	242	32	249
Embroidery.....	M. H. Pulaski.....	319,122	June 2	235	62	31	1091
Embroidery. Box for packing and displaying.....	H. J. Woodley.....	317,604	May 12	911	233 234 235	31	697
Embroidery-cutting machine.....	C. White.....	320,031	June 16	1454	322 323	31	1329
Embroidery-envelope.....	J. E. Lee.....	324,854	Aug. 25	1983	545	32	914
Embroidery-holder.....	J. B. West. (Reissue).....	10,533	Jan. 13	904	245	30	176
Embroidery. Imitation-bead.....	E. Cornely.....	322,582	July 21	1589	419	32	304
Embroidery show-box.....	M. H. Pulaski.....	314,542	Mar. 24	2034	543	30	1180
Embroidery show-card.....	I. Neuburger.....	332,102	Dec. 8	1274	331	33	1234
Embroidery, &c. Transferring patterns for.....	H. E. Kramer.....	333,306	Dec. 29	2973	778	33	1557
Emery-wheel for card-grinders. Traveling.....	J. H. Loudon.....	323,172	July 28	2399	636	32	460
Emery-wheels. Tool for dressing.....	L. Bush, Jr.....	318,952	June 2	19	5	31	1052
Enameled goods. Making.....	J. Hines.....	322,290	July 14	1180	310	32	225
Enameling.....	J. Hines.....	329,185	Oct. 27	2231	577	33	427
End-gate.....	J. M. Coppernoll and J. W. Brandow.....	316,748	Apr. 28	2453	638	31	463
End-gate and scoop-board. Combined.....	R. Cass, J. McArthur, and W. H. Adkins.....	326,714	Sept. 22	1993	522 521	32	1404
End-gate and scoop-board. Combined.....	J. O. Gordon.....	319,229	June 2	356	95	31	1115
End-gate fastener.....	B. J. Swenson.....	314,154	Mar. 17	1515	397	30	1075
End-gate fastening.....	D. W. McKinnon.....	322,192	July 14	1069	277	32	203
End-gate for dumping wagons.....	T. S. Stewart.....	315,969	Apr. 14	1381	358	31	255
End-gate. Wagon.....	A. B. Cooper.....	317,977	May 19	1412	379	31	799
End-gate. Wagon.....	E. Q. Darr.....	322,295	Oct. 13	1014	264	32	192
End-gate. Wagon.....	F. F. Everett.....	321,891	July 7	681	172	32	120
End-gate. Wagon.....	C. A. Gale.....	326,420	Sept. 15	1601	417	32	1326
End-gate. Wagon.....	D. E. Lantz.....	319,271	June 2	407	108	31	1125
End-gate. Wagon.....	L. Lehman.....	318,635	May 26	2283	610	31	966
End-gate. Wagon.....	R. M. Skiles.....	327,830	Oct. 6	424	110	33	75
End-gate. Wagon.....	H. Stow.....	316,307	Apr. 21	1825	420	31	344
End-gate. Wagon.....	S. G. Travis.....	322,506	July 21	1491	392	32	287
End-gate. Wagon.....	H. H. Turner.....	331,744	Dec. 1	750	189	33	1131
End-gate. Wagon.....	G. H. Williams.....	314,407	Mar. 24	1848	493	30	1148
Engine:							
See Aero-steam engine. Hydraulic engine.							
Air-engine. Locomotive-engine.							
Air and gas engine. Locomotive steam-engine.							
Air-compressing engine. Oscillating engine.							
Blowing-engine. Pulp-beating engine.							
Caloric engine. Pumping-engine.							
Carding-engine. Road-engine.							
Compound engine. Rotary engine.							
Condensing-engine. Rotary steam-engine.							
Cylinder-engine. Single-acting engine.							
Dental engine. Steam-engine.							
Direct-acting engine. Steam or vapor engine.							
Duplex engine. Traction-engine.							
Electric engine. Valveless engine.							
Electro-magnetic reciprocating engine. Vapor-engine.							
Explosive engine. Vibrating-piston engine.							
Fire-engine. Watch-maker's wheel-cutting engine.							
Gas-engine. Water-pressure engine.							
Hot-air engine. Wind-engine.							
Engine.....	A. E. Johnson.....	329,563	Nov. 3	193	51, 52	33	542
Engine.....	G. W. Price.....	324,592	Aug. 18	1608	443	32	838
Engine and dynamo-electric machine. Combined.....	J. H. Vall.....	331,994	Dec. 8	1013	262 263	33	1188
Engine bed-frames. Machine for finishing.....	W. F. Parish.....	332,745	Dec. 22	2188	577 578	33	1409
Engine bed-frames. Mechanism for finishing.....	W. F. Parish.....	332,742	Dec. 22	2184	576 577	33	1408
Engine bed-frames. Mechanism for finishing.....	W. F. Parish.....	332,743	Dec. 22	2186	577	33	1408
Engine bed-frames. Mechanism for finishing.....	W. F. Parish.....	332,744	Dec. 22	2187	577	33	1408
Engine bed-plate.....	R. Scheidler.....	333,342	Dec. 29	3014	729	33	1564
Engine cross-head.....	W. J. Creelman.....	324,367	Aug. 18	1314	357	32	783
Engine cylinder and valve.....	G. S. Strong.....	320,893	June 23	2637	698 699	31	1354
Engine for starting or turning large engines.....	W. Hargreaves and W. Inglis.....	316,776	Apr. 28	2486	649	31	470
Engine for twin-screw vessels.....	E. Banduin.....	315,381	Apr. 7	539	139 140	31	98
Engine reverse-gear.....	O. Avery.....	319,051	June 2	144	39	31	1074

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Engine-reversing device	D. P. Kane	328,787	Oct. 20	1678	437	33	391
Engine-reversing gear	J. C. Debes	313,579	Mar. 10	737	194	30	924
Engine-reversing gear	E. Huber and G. W. King	330,980	Nov. 24	2064	559	33	921
Engine-reversing gear	H. B. Larzelere	331,069	Nov. 24	2165	588	33	941
Engine-reversing mechanism	R. Scheidler	311,921	Feb. 10	614	170	30	471
Engine-starter	G. J. Goodhue	332,197	Dec. 8	1401	362	33	1256
Engines. Electrical apparatus for controlling marine.	L. M. Sanders	326,337	Sept. 15	1501	392	32	1307
Engines. Regenerator for compound	T. Hulme	310,826	Jan. 13	852	231	30	167
Engraving-machine	R. Burgess	321,482	July 7	99	27	32	30
Ensilage and fodder cutter	J. B. Brown, J. W. Douglass, and J. Pentreath	332,698	Dec. 22	2126	561	33	1396
Ensilage. Apparatus for compressing	E. T. Blunt	318,595	May 26	2238	599	31	958
Ensilage-cutter	J. Y. Smith	311,538	Feb. 3	107	32	30	309
Envelope	A. A. Bishop	311,946	Feb. 10	653	179	30	477
Envelope	R. P. Brown	320,215	June 16	1700	451	31	1573
Envelope	G. W. Crane	310,495	Jan. 6	423	117	30	82
Envelope	J. T. Dunham	331,118	Nov. 24	2244	610	33	955
Envelope	K. H. Pedrick	311,915	Feb. 10	608	167	30	489
Envelope	S. H. Smith	332,454	Dec. 15	1759	460	33	1325
Envelope	R. Snelder	311,268	Jan. 27	1393	380	30	277
Envelope	J. N. Williams	331,358	Dec. 1	136	33, 34	33	1022
Envelope-blank-feeding mechanism	L. P. Bouvier	324,644	Aug. 18	1698	468	32	853
Envelope-folding machine	F. H. Richards	323,207	July 28	2454	652	32	471
Envelope for mailing barbed articles	J. B. Oliver	313,100	Mar. 3	81	21	30	792
Envelope-machine	L. P. Bouvier	321,183	June 30	3023	800 801 802	31	1631
Envelope-machines. Blank-picker for	F. H. Richards	331,444	Dec. 1	273	74	33	1047
Envelope-machines. Blank-picker for	F. H. Richards	331,445	Dec. 1	273	74	33	1047
Envelope-moistener	J. A. Martens	318,921	May 26	2009	708	31	1037
Envelope-moistener	E. Ryder	319,426	June 2	601	163	31	1163
Envelope-moistener	E. Ryder	325,632	Sept. 1	550	140	32	1190
Envelope. Money.	P. Scanlan	332,008	Dec. 8	1126	294	33	1209
Envelope-opener and paper-cutter	G. C. Holden	318,475	May 26	2063	557	31	929
Envelope-opener and paper-knife. Combined.	G. T. Brown	330,557	Nov. 17	1519	406	33	809
Envelope or protector for cards	J. Markinsky	329,925	Nov. 10	677	173	33	639
Envelope. Reversible	J. Hoffmann	321,297	June 30	3164	843	31	1657
Envelope. Sample	A. Ackerman	315,692	Apr. 14	967	258	31	185
Eraser. Ink.	W. L. Finley	313,717	Mar. 10	916	238	30	857
Eraser. Knife.	F. L. Stowell	322,991	July 28	2154	571	32	415
Erasing compound. Ink.	C. Walpuski	314,759	Mar. 31	2314	.....	30	1258
Erasable rubber	F. H. Holton	328,778	Oct. 20	1666	434	33	319
Erasable rubber	F. H. Holton	328,779	Oct. 20	1667	434	33	319
Escape-movement. Rotary	W. D. Chapman	332,679	Dec. 22	2367	696	33	1440
Escapement.	G. B. St. John	313,962	Mar. 17	1273	332	30	1030
Escapement-motor	M. F. Teague	328,360	Oct. 13	1107	287	33	210
Evaporating and condensing apparatus	E. Theisen	332,648	Dec. 22	2312	611 612 613	33	1431
Evaporating apparatus	F. J. Oakes	319,611	June 9	879	232	31	1219
Evaporating apparatus for brine, &c.	M. P. Hayes	321,025	June 30	2823	750 751	31	1585
Evaporating pan	T. F. Krajewski	326,299	Sept. 15	1452	379	32	1298
Evaporating pan	J. F. Porter	326,149	Sept. 15	1226	316	32	1257
Evaporating pan and furnace	C. W. Frick	310,403	Jan. 6	390	88	30	82
Evaporating pan. Salt.	G. H. Smith	317,229	May 5	409	102	31	598
Evaporating pan. Salt.	G. H. Smith	321,456	July 7	64	18	32	15
Evaporating-pans. Automatic discharger for	M. E. Sprague	332,019	Dec. 8	1139	297	33	1211
Evaporating-pans. Making.	G. H. Grimm	316,893	Apr. 22	2050	691	31	500
Evaporating saline or saccharine liquids. System of inclined troughs with inclosed steam-pipes for	C. N. Walte	331,587	Dec. 1	518	125	33	1088
Evaporator							
See Cane-juice evapora- Sorghum-evaporator.							
Evaporator	J. W. Babbitt	315,696	Apr. 14	992	260	31	166
Evaporator	L. W. Cooper	331,867	Dec. 8	923	238	33	1171
Excavating-machine	G. C. Blickensderfer	332,042	Dec. 8	1181	309	33	1218
Excavating-machine	H. J. Scherff and C. B. Wolf	322,858	July 21	1951	515 516	32	370
Excavating-machine. Hydraulic	R. Stone	316,497	Apr. 28	2099	552	31	388
Excavator	M. F. Brainard	332,227	Dec. 15	1451	376 377	33	1271
Excavator	R. R. Osgood	313,613	Mar. 10	785	206	30	932
Excavator	B. K. Reed and B. L. Burris	322,319	July 14	1217	320	32	232
Excavator	H. Rengstorff	321,051	June 30	2851	759	31	1600
Excavator	B. F. Thomas	318,326	May 19	1870	502	31	654
Excavator	C. H. Watson	325,370	Sept. 1	193	50	32	1051
Excavator for removing snow, &c. Rotary	E. Leslie	317,009	May 12	1175	312	31	746
Excavator. Submarine	R. Morhard	317,664	May 12	967	256	31	710
Excavator. Submarine	J. E. Walsh	328,095	Oct. 13	769	201	33	145
Excavator. Tunnel	C. C. Quinn	330,617	Nov. 17	1588	424 425	33	824
Excavators, dredgers, &c. Conveyor for	M. Marolle	316,377	Apr. 21	1922	507	31	360
Excavators. Universal swivel and pipe connection for	M. F. Brainard	332,228	Dec. 15	1452	377	33	1272
Excelsior-machine	G. Brooks	326,395	Sept. 15	1579	408	32	1220
Excreta, &c. Apparatus for the reception and de-odorization of human	R. Nicholls	324,146	Aug. 11	997	278	32	716
Exercising apparatus	P. E. McDonnell	327,403	Sept. 29	2951	770	32	1500
Exercising apparatus	J. E. Ruebsam	321,388	June 30	3280	876 877	31	1660
Exercising apparatus. Cabinet	G. H. Benedict	332,969	Dec. 22	2515	664 665	33	1468
Exercising apparatus. Electrical	J. H. Shaw	311,381	Jan. 27	1646	450	30	323

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	De'g.	Vol.	Page.
Exercising-bag	C. E. Longden	318,766	May 26	2462	660	31	1000
Exercising-chair	M. G. Farmer	325,519	Sept. 1	412	102	32	1095
Exercising-chair	J. M. W. Kitchen	329,570	Nov. 3	203	53, 54	33	543
Exercising-chair	J. M. W. Kitchen	329,653	Nov. 3	306	78	33	563
Exercising-machine	G. P. Clarke and G. Harsin	321,278	June 30	3141	837	31	1652
Exercising-machine	W. L. Coop and J. C. Boms	323,792	Aug. 4	527	149	32	622
Exercising-machine	M. G. Farmer	319,686	June 9	962	255	31	1235
Exercising-machine	W. E. Forest	325,404	Sept. 1	256	64	32	1064
Exercising-machine	J. B. Root	326,247	Sept. 15	1384	359	32	1284
Exercising stool or chair. Portable.	G. J. F. Tate	321,157	June 30	2991	793	31	1024
Exhaust-muffle	C. L. Kidder	330,242	Nov. 10	1095	290	33	722
Exhaust-nozzle	C. A. Thompson	330,016	June 16	1435	377	31	1325
Exhibiting-case	J. M. Clapp	322,903	July 28	2024	534	32	390
Exhibitor for articles of merchandise	J. P. Marshall and A. R. Howze	327,000	Sept. 29	2416	{ 631 632 }	32	1487
Expansible bit	G. H. Hill	313,735	Mar. 10	946	245	30	962
Expansion-joint	M. H. Gray	330,392	Nov. 17	1309	348	33	770
Expansion-joint	P. Koch	322,457	July 21	1413	370	32	273
Expansion-joint	J. Letzkus	327,281	Sept. 29	2786	725	32	1532
Explosive compound	R. S. Penniman	320,583	June 23	2245	.....	31	1480
Explosive compound	R. S. Penniman	333,152	Dec. 29	2755	.....	33	1516
Explosive compound	J. C. Schrader	333,344	Dec. 29	3016	.....	33	1564
Explosive compounds. Making	J. C. Schrader	333,345	Dec. 29	3018	.....	33	1564
Explosive compounds. Protected nitrate of ammonia for use in	R. S. Penniman	312,010	Feb. 10	747	.....	30	495
Explosive engine	G. Asher and J. Buttress	329,354	Oct. 27	2507	{ 645 646 647 }	33	478
Explosive. Gelatinated.	R. S. Penniman and J. C. Schrader	333,151	Dec. 29	2754	.....	33	1516
Explosives. Aerial drop for	M. L. S. Buckner	315,712	Apr. 14	1016	.....	31	190
Extensible stand	C. Denecke	314,808	Mar. 31	2409	637	30	1276
Extension-table	S. E. Claassen	332,590	Dec. 15	1859	513	33	1359
Extension-table	D. Copeland and H. J. Durgin	315,946	May 5	90	6	31	526
Extension-table	L. M. Doddridge	313,406	Mar. 3	513	134	30	873
Extension-table	A. E. French	320,124	June 16	1555	419	31	1352
Extension-table	J. D. Main	316,472	Apr. 28	2067	541	31	392
Extension-table	G. McLagan	317,525	May 12	1202	318	31	752
Extension-table	E. Neumer and M. Derr	323,520	Aug. 4	180	52	32	556
Extension-table	G. Schmitt	333,341	Dec. 29	3013	789	33	1564
Extractor:							
See Beeswax-extractor.	Spike-extractor.						
Cartridge-shell ex-tractor.	Spoke-extractor.						
Lemon-juice ex-tractor.	Staple-extractor.						
	Stump-extractor.						
	Weed-extractor.						
Extracts from cereals. Preparing	H. Lehrenkrauss	312,869	Feb. 24	1926	.....	30	728
Eye-bars and similar articles. Manufacture of	C. L. Strobel	329,501	Nov. 3	103	27	33	525
Eye-bars. Machine for upsetting.	W. Cooke and D. Carlough	328,290	Oct. 13	1007	262	33	191
Eye-links. Manufacture of	A. H. Emery	322,048	July 14	877	228	32	168
Eye remedy	R. D. Haley	318,468	May 26	2056	.....	31	928
Eye-water	M. M. Lamontagne	312,131	Feb. 10	904	.....	30	524
Eyes. Apparatus for testing the	F. A. Hardy	311,185	Jan. 27	1363	373	30	271
Eyebolts. Machine for welding and tapering the shanks of	W. D. Parker	318,788	May 26	2494	666	31	1005
Eyeglass	J. J. Bausch	322,673	July 21	1699	450	32	326
Eyeglass and spectacle frame	C. B. Heady	318,733	May 26	2412	.....	31	992
Eyeglass and spectacle frame	C. B. Heady	318,734	May 26	2412	.....	31	992
Eyeglass-frame	S. B. Opdyke	311,602	Feb. 3	193	55	30	385
Eyeglass-holder	S. F. Merritt	319,293	June 2	436	117	31	1130
Eyeglass-hook	G. D. Briggs	330,673	Nov. 17	1658	447	33	839
Eyeglass nose-guards. Cushion for	G. W. Wells	323,550	Aug. 4	222	66	32	563
Eyeglass nose-pad	J. S. Spencer	330,521	Nov. 17	1475	395	33	802
Eyeglass spring and nose-guard	G. W. Wells	331,465	Dec. 1	303	81	33	1052
Eyeglass-springs. Machine for making	E. J. Watson	311,548	Feb. 3	125	36	30	372
Eyeglasses	H. Borsch	329,883	Nov. 10	630	160	33	629
Eyeglasses	A. C. Lord	322,461	July 21	1418	371	32	274
Eyeglasses	F. W. McAllister	315,154	Apr. 7	232	56	31	42
Eyeglasses	J. W. Riglander	323,736	Aug. 4	462	130	32	609
Eyeglasses. Nose-guard for	J. Currin	324,540	Aug. 18	1543	426	32	824
Eyeglasses or spectacles	C. Slotterbek	311,615	Feb. 3	208	59	30	388
Eyellet or button-hole. Metal	T. B. Ashford	329,692	Nov. 3	359	91	33	573
Eyetelet-machine	H. H. Cummings	327,142	Sept. 29	2604	{ 679 680 }	32	1519
Eyetelet-machine	L. C. Emerson	332,334	Dec. 15	1592	418	33	1297
Eyetelet-machine	L. D. Hawkins	325,077	Aug. 25	2279	{ 628 627 }	32	970
Fabric:							
See Embossed fabric.	Non-conducting fabric.						
Metallic fabric.	Woven fabric.						
Fabric	T. Isherwood	330,787	Nov. 17	1807	487	33	866
Fabric for window-shades, book-covers, &c	S. Bancroft, Jr	313,799	Mar. 10	1037	.....	30	978
Fabric for wrappers	C. H. Leonard	314,557	Mar. 31	2470	654	30	1287
Fabric-turfing implement	G. H. Baker	333,279	Dec. 29	3059	798	33	1571
Fabric-turfing implement	J. J. Deal	330,301	Nov. 10	1171	312	33	737
Fabric-turfing implement	C. M. Hinkle	314,023	Mar. 17	1346	351	30	1045
Fabric-turfing machine	M. F. Connett, Jr	332,639	Dec. 15	2022	531	33	1371
Fabrics. Machine for forming raised ornaments by threads on	R. Guerrand	322,537	July 21	1521	401	32	283
Fabrics. Machine for trimming	D. Sweeney and G. Rehfuess	329,865	Nov. 3	595	153	33	616
Fabrics. Machine for turfing	M. F. Connett, Jr	313,710	Mar. 10	907	{ 236 237 }	30	956
Fabrics. Manufacturing illuminated	R. K. Slaughter	314,349	Mar. 24	1777	472	30	1133
Face-protector	E. T. Stover	331,339	Dec. 1	115	27	33	1019
Face-protector	E. T. Stover	331,340	Dec. 1	115	27	33	1019

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Vol.	Official Gazette.
				Spec.	Digs.		
Fan	E. W. Hooft	323,811	Aug. 4	550	156	32	636
Fan	M. Rubin	317,211	May 5	388	97	31	364
Fan	J. M. Seymour	326,888	Sept. 22	2285	592	32	1452
Fan	J. M. Seymour	330,627	Nov. 17	1599	428	33	886
Fan	J. M. Seymour	333,349	Dec. 29	3023	789	33	1565
Fan attachment	C. E. Eaton	322,530	July 21	1514	399	32	291
Fan attachment	A. Nawadny	315,320	Apr. 7	463	117	31	81
Fan attachment	H. P. Roberts	325,663	Sept. 8	868	218	32	1182
Fan attachment	H. P. Watts	312,413	Feb. 17	1306	360	30	607
Fan. Automatic	C. Bailey	314,775	Mar. 31	2309	627	30	1268
Fan. Automatic	W. H. Mercer	328,705	Oct. 20	1582	412	33	302
Fan. Automatic	P. Murray, Jr.	332,820	Dec. 22	2272	599	33	1425
Fan. Automatic	W. H. Pittman	310,655	Apr. 28	2295	603	31	435
Fan. Automatic	A. M. Richardson	325,662	Sept. 8	867	218	32	1182
Fan. Automatic	G. Schmidt	312,169	Feb. 10	971	265	30	536
Fan. Automatic	J. M. Seymour. (Reissue)	10,657	Nov. 3	611	156	33	619
Fan-blast regulator	A. Kahl	329,567	Nov. 3	199	53	33	543
Fan. Columnar	J. M. Seymour	332,446	Dec. 15	1749	457	33	1321
Fan. Exhaust	W. M. Dwight	318,684	May 26	2622	696	31	1028
Fan. Fly	W. R. Fowler	321,352	June 30	3232	861	31	1671
Fan for ventilating mines, &c.	W. Viggers	328,540	Oct. 20	1366	356	33	263
Fan-holder	B. Brower	315,899	Apr. 14	1282	334	31	529
Fan-holder	B. A. Drayton	319,890	June 9	1252	330	31	1285
Fan. Rotary	G. M. Capell	324,006	Aug. 11	807	224	32	681
Fan. Rotary	J. M. Seymour	325,453	Sept. 1	321	78	32	1676
Fan. Suspended	J. M. Seymour	331,092	Nov. 24	2203	596	33	948
Fanning-machines, &c. Blast-regulator for	C. Dickinson	324,242	Aug. 11	1140	310	32	742
Fanning-mill	T. M. Bales and C. P. Riley	321,270	June 30	3132	834	31	1631
Fanning-mill	B. S. Constant	317,084	May 5	216	54	31	563
Fanning-mill	P. M. Fabing and J. Ackermann	311,733	Feb. 3	353	97	30	415
Fanning-mill	J. Luxem	329,401	Oct. 27	2585	666	33	491
Fanning-mill	E. H. Pease	312,157	Feb. 10	955	260	30	533
Fanning-mill	W. S. Wood	321,563	July 7	216	57	32	43
Fanning-mill and cockle-separator. Combined	E. Phelps	317,412	May 5	655	167	31	642
Fanning-mill. Automatic	H. S. Zink	332,470	Dec. 15	1778	465	33	1329
Fanning-mill sieve	S. J. Aasen	322,096	July 28	2303	608	32	442
Fare-box	F. O. Landgrane and M. E. Willis	325,348	Sept. 1	154	42	32	1044
Fare-box	F. O. Landgrane and M. E. Willis	333,223	Dec. 29	2805	749	33	1536
Fare-box	T. Mangan and J. T. Wilson	328,326	Oct. 13	1053	272	33	900
Fare-box	W. G. Price	319,313	June 2	463	125	31	1136
Fare-box	W. G. Price	326,778	Sept. 22	2108	548	32	1423
Fare-box	W. Zaehring	322,286	July 14	1118	291	32	913
Fare-box, indicator, and recorder	C. H. Maltby	311,019	Jan. 20	1120	306	30	921
Fare-box register	F. F. Mattoon	324,396	Aug. 18	1354	368	32	791
Fare receiver, register, and alarm	W. A. Connelly	315,737	Apr. 14	1057	277	31	196
Fare-recorder	E. Baldwin	323,553	Aug. 4	226	67	32	564
Fare-register	C. A. Neuert	313,513	Mar. 10	656	170	30	907
Fare-register	C. E. Pratt	319,847	June 9	1190	314	31	1274
Fare register and recorder	J. Corbett	326,720	Sept. 22	2011	526	32	1407
Fare register and recorder	J. H. Rose	315,963	Apr. 14	1373	335	31	254
Fare-registering machine	J. B. Benton	332,966	Dec. 22	2343	619	33	1436
Farm-gate	L. T. Akin	321,413	July 7	1	1	32	3
Farm-gate	J. W. Bennett	327,992	Oct. 13	631	167	33	121
Farm-gate	J. C. Budd	327,654	Oct. 6	211	52	33	38
Farm-gate	E. M. Coombs	325,657	Sept. 8	585	148	32	1131
Farm-gate	D. A. Dickinson	312,442	Feb. 17	1342	370	30	614
Farm-gate	J. H. Lanev	315,798	Apr. 14	1140	299	31	214
Farm-gate	L. T. Nichols	327,694	Oct. 6	498	130	33	89
Farm-gate	E. S. Robinson	313,372	Mar. 3	470	128	30	664
Farm-gate	J. G. Sherman	325,123	Aug. 25	2338	643	32	980
Farm-gate	S. W. Smith	330,631	Nov. 17	1603	429	33	297
Farm-gate	A. O. Thornton	330,939	Nov. 24	2014	544	33	912
Farm-gate	J. Ulrich	314,756	Mar. 31	2311	614	30	1256
Farm-gate	C. Walker	317,048	May 5	148	38	31	549
Farm-gate	J. K. Wilmot	312,311	Feb. 17	1171	320	30	581
Farm-gate	T. E. Wilson	323,476	Aug. 4	190	35	32	544
Fascine-binder	A. M. Kanters	313,340	Mar. 3	430	108	32	836
Fastener	G. W. Mohrstadt	327,009	Sept. 29	2427	634	32	1489
Fastener	A. P. Moses	320,953	June 30	2718	721	32	1575
Fastener	J. F. Thayer	324,895	Aug. 25	2043	559	32	924
Fastener. Metallic	G. W. McGill	330,995	Nov. 24	2063	564	33	925
Fastening device	E. Wright	325,221	Aug. 25	2468	679	32	1004
Fat-cutter	T. Raeko	319,316	June 2	467	126	31	1137
Fat-cutting machine	J. E. Bowman	331,262	Dec. 8	915	236	33	1170
Fat-cutting machine. Pork	B. Gloekler	328,667	Oct. 20	1535	399	33	294
Faucet	A. J. Bantlin	321,476	July 7	93	25	32	19
Faucet	W. F. Class and A. J. Weatherhead	328,651	Oct. 20	1515	394	33	290
Faucet	H. P. Drew	325,225	Sept. 8	824	206	32	1173
Faucet, &c.	M. Fitzgerald	320,770	June 23	2478	658	31	1525

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Faucet	P. Kuntzel and F. L. Loescher	319,913	June 9	1287	340	31	1291
Faucet	T. Long	333,139	Dec. 29	2736	718	33	1513
Faucet	H. H. Orbits and M. Willet	313,443	Mar. 3	569	147	30	882
Faucet	E. G. and C. Pfau	319,845	June 9	1188	314	31	1274
Faucet	A. D. Puffer	318,801	May 26	2513	671	31	1008
Faucet	P. Schofield	320,705	June 23	2400	635	31	1509
Faucet	E. U. Scoville	322,129	July 14	986	257	32	188
Faucet	N. Styne	313,249	Mar. 3	319	78	30	834
Faucet	F. F. Wolf	323,094	July 28	2301	607	32	441
Faucet and air-pump combined. Beer-	M. L. Deering	326,482	Sept. 15	1673	437	32	1339
Faucet and bushing	H. Nadorff	326,310	Sept. 15	1480	385	32	1303
Faucet and pump. Combined	S. Wicks	319,535	June 9	768	205	31	1199
Faucet and vent. Combined	H. B. Lytle	317,466	May 5	730	184	31	655
Faucet. Beer	E. A. Byrne and J. P. Lenahan	325,316	Sept. 1	115	33	32	1037
Faucet. Beer	F. W. Polle	322,318	July 14	1217	319	32	231
Faucet. Beer	M. Singer	328,529	Oct. 20	1333	345	33	258
Faucet. Beer-registering	D. W. Davis and W. G. Latimer	327,662	Oct. 6	224	55	33	39
Faucet. Can	E. Kells	328,038	Oct. 13	691	182	33	132
Faucet. Fluid-discharge and vent	W. S. F. Dillon	331,379	Dec. 1	172	44	33	1029
Faucet for shipping cans	J. Marshall	315,153	Apr. 7	231	56	31	42
Faucet for wash-bowls	T. C. Clark	323,563	Aug. 4	237	69	32	565
Faucet. Force and drain	W. F. Class, A. J. Weatherhead, and G. Collins	328,877	Oct. 20	1791	467	33	342
Faucet. Force and drain	A. J. Weatherhead	319,647	June 9	922	243	31	1226
Faucet. Measuring	J. E. Carey	323,317	Sept. 1	117	33	32	1037
Faucet. Measuring	S. B. Derby	332,882	Dec. 22	2370	627	33	1441
Faucet or valve	J. Darling	321,094	July 7	382	102	32	71
Faucet. Pump	P. J. Casar	319,357	June 9	797	211	31	1204
Faucet. Registering	L. C. Lane	320,480	June 23	2108	556	31	1454
Faucet registering attachment	D. W. Davis and W. G. Latimer	327,663	Oct. 6	224	55	33	40
Faucet. Self-closing	T. Haley	319,777	June 9	825	219	31	1209
Faucet. Self-closing	A. J. Homan	325,412	Sept. 1	266	66	32	1066
Faucet. Self-closing	H. B. Leach	322,114	July 14	967	252	32	185
Faucet-socket	C. A. Chandler	321,89	July 7	377	101	32	70
Faucet. Water	A. Stover	330,324	Nov. 17	1480	396	33	802
Feather. Artificial	F. Seymour	325,70	Sept. 8	875	220	32	1181
Feather-renovator	H. Berger	324,321	Aug. 18	1521	419	32	820
Feather-renovator	O. S. Crane	320,340	June 23	2188	578	31	1468
Feather-renovator	H. Eldridge	324,63	Aug. 18	1440	394	32	806
Feather-renovator	F. Schach and W. Stelter	318,339	May 19	1495	401	31	814
Feather-sorting machine	H. C. Dyer	320,342	June 16	1899	500	31	1408
Feathers for dusters. Machine for preparing	S. M. Park	329,672	Nov. 3	329	84	33	567
Feathers. Machine for removing plumage from	G. R. Holden	328,004	Oct. 13	1177	304	33	223
Feed-actuating mechanism	J. H. Wright	312,058	Feb. 10	805	220	30	506
Feed-bag	F. Burkhard	322,553	July 14	1138	297	32	216
Feed-bag	J. Conway	314,915	Mar. 31	2556	676	30	1301
Feed-bag for horses	M. Burton	320,103	Sept. 15	1171	299	32	1246
Feed-bag holder	W. G. Howe	325,007	Sept. 1	515	129	32	1113
Feed-box for animals	L. Doty	311,880	Feb. 10	550	151	30	459
Feed-cutter	F. Blocki	310,000	Apr. 21	1421	369	31	270
Feed-cutter	A. M. Forrester	313,662	Mar. 10	850	221	30	945
Feed-cutter	C. Knauer	319,992	June 9	710	190	31	1188
Feed-cutter	E. F. Sherman	314,266	Mar. 24	1661	441	30	1111
Feed-cutter	H. G. Shipp	331,653	Dec. 1	283	77	33	1049
Feed-cutter	M. R. Vinson	331,664	Dec. 1	303	81	33	1052
Feed-hopper and water-trough. Combined	A. Handley	331,132	Nov. 24	2262	614	33	958
Feed-lubricator	J. S. Hall	322,927	July 28	2057	543	32	397
Feed-mill	T. C. Cadwgan	322,661	Aug. 4	235	69	32	565
Feed-rack	H. S. Crabtree	327,070	Sept. 29	2503	654	32	1501
Feed-rack	M. Thomas	314,373	Mar. 24	1671	444	30	1113
Feed-rack	B. F. Waggoner	325,061	Sept. 1	329	80	32	1078
Feed-rack and manger. Combined	W. S. Downing	319,361	Jan. 6	131	37	30	27
Feed-rack and stall. Combined	J. H. Dyringer	319,668	June 9	869	216	31	1206
Feed-rack and trough. Combined	R. W. Dye	329,029	Oct. 27	2039	529	33	393
Feed-regulator	L. C. Schroeder	324,688	Aug. 25	2031	556	32	923
Feed-regulator. Boiler	C. F. Wilson	316,212	Apr. 21	1705	447	31	322
Feed-roll	P. Hanavan	325,339	Sept. 1	144	40	32	1042
Feed-roll	J. A. Roberts	322,324	July 14	1223	321	32	233
Feed-trough	J. Blattner	310,354	Jan. 13	508	140	30	104
Feed-trough	F. L. Buchanan	318,340	May 19	1907	514	31	891
Feed-trough	G. Laning	331,007	Dec. 1	356	96	33	1062
Feed-water alarm	A. P. Urey	326,685	Sept. 15	1637	432	32	1336
Feed-water apparatus	J. L. Longstreth	328,225	Oct. 13	1052	272	33	200
Feed-water by exhaust-steam. Heating	W. E. Pearson	323,553	Dec. 15	1910	500	33	1351
Feed-water cleaner	J. T. Bryant	326,014	Sept. 8	1053	268	32	1216
Feed-water cleaner	F. Trowbridge	320,511	June 23	2148	567	31	1142
Feed-water heater	G. H. Babcock	314,415	Mar. 24	1858	495	30	1149
Feed-water heater	D. M. Bornarth and T. W. Heintzelman	327,994	Oct. 13	633	167	33	122
Feed-water heater	W. H. Burk	321,338	June 30	3209	856	31	1667
Feed-water heater	H. Cummings	326,203	Sept. 15	1318	341	32	1272
Feed-water heater	T. Evans	310,570	Jan. 13	528	145	30	107
Feed-water heater	M. Funk	317,636	May 12	950	244	31	703
Feed-water heater	A. A. Goubert	319,232	June 2	359	96, 97	31	1116
Feed-water heater	J. A. Grant	312,716	Feb. 24	1716	471	30	691
Feed-water heater	J. J. Hoppes	318,112	May 19	1589	425	31	832
Feed-water heater	S. R. Hughes	328,587	Oct. 20	1415	368, 369	33	273
Feed-water heater	D. Lee	331,307	Dec. 1	69	17	33	1012
Feed-water heater	W. Love	315,306	Apr. 7	446	113	31	81
Feed-water heater	G. G. Minor and J. D. Sullivan	326,580	Sept. 22	1802	473	32	1317
Feed-water heater	J. O'Brien and S. J. Weaver	330,612	Nov. 17	1520	423	33	822
Feed-water heater	R. O'Neill	327,583	Oct. 6	107	24	33	20

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Feed-water heater	L. A. Olsen	332,224	Dec. 22	2278	601	33	1496
Feed-water heater	J. W. Pearce	323,957	Aug. 11	745	207	32	670
Feed-water heater	D. E. Rice	323,076	July 28	2273	601	32	436
Feed-water heater	C. H. Robinson	329,488	Nov. 3	84	23	33	521
Feed-water heater	A. Rodgers	316,182	Apr. 21	1665	436	31	316
Feed-water heater	P. Rohan	310,297	Apr. 21	1815	477	31	342
Feed-water heater	O. Rothrock	318,396	May 19	1965	529	31	902
Feed-water heater	O. Rothrock	328,902	Oct. 20	1829	477	33	349
Feed-water heater	O. Rothrock	328,903	Oct. 20	1832	477	33	349
Feed-water heater	W. H. Rushforth	318,880	May 26	2618	605	31	1027
Feed-water heater	W. Schwartz	313,690	Mar. 17	1165	303	30	1010
Feed-water heater	H. W. Shepard	321,641	July 7	168	50	32	37
Feed-water heater	S. J. Weaver	330,050	Nov. 17	1627	437	33	832
Feed-water heater	J. Welsh	310,968	Jan. 20	1033	286	30	207
Feed-water heater	W. H. Wood	319,376	June 2	537	146	31	1150
Feed-water heater	F. S. Zwickl	324,910	Aug. 25	2062	564	32	928
Feed-water heater and filter	P. Brickman	329,265	Oct. 27	2373	614	33	454
Feed-water heater and filter	T. A. Lathrop	317,806	May 12	1173	311	31	746
Feed-water heater and purifier	D. Cochrane	313,287	Mar. 3	363	90	30	842
Feed-water heater and purifier	M. W. Hazelton	326,092	Sept. 8	1148	292	32	1234
Feed-water heater and purifier	G. H. Malter	320,077	June 16	1518	402	31	1341
Feed-water heater and purifier	W. W. Tyler	333,489	Dec. 29	3205	838	33	1595
Feed-water heater and purifier	A. W. Ward	321,406	June 30	3309	883	31	1684
Feed-water heater and purifier	D. D. Wass	323,611	Aug. 4	299	85	32	577
Feed-water heater for steam-boilers	F. Doyle	314,521	Mar. 24	2006	535	30	1175
Feed-water. Heating	J. Kirkaldy	324,120	Aug. 11	964	265	32	710
Feed-water. Heating and purifying	W. Baragwanath	314,559	Mar. 31	2069	550	30	1212
Feed-water in steam-boilers. Purifying	H. Stollwerck	313,838	Mar. 10	1086	282	30	987
Feed-water purifier	A. J. Stevens	331,917	Dec. 8	994	257	33	1184
Feed-water purifier and heater	J. P. Warner	322,767	July 21	1824	428	32	347
Feed-water purifier and heater	J. P. Warner	330,758	Nov. 17	1773	478	33	860
Feed-water regulator	J. A. Creelman	319,959	June 16	1356	356	31	1311
Feed-water regulator	W. Ritter	320,093	June 16	1539	407	31	1345
Feed-water regulator for steam-boilers	W. White	315,098	Apr. 7	151	33	31	29
Feed-water trap. Steam	H. Creamer	313,854	Mar. 17	1117	290	30	1001
Feeder and alarm. Boiler	T. Barber	319,603	June 9	938	248	31	1230
Feeder. Automatic boiler	W. H. Page	326,143	Sept. 15	1225	313	32	1255
Feeder. Automatic time stock	T. L. Bissell	317,708	May 12	1043	271	31	721
Feeder. Boiler	S. Haigh	319,708	June 9	995	263	31	1240
Feeder. Boiler	G. E. Hall	317,532	May 12	816	210	31	680
Feeder. Hog	H. M. Carter	324,531	Aug. 18	1534	423	32	292
Feeder. Safety stock	J. E. Roach	327,110	Sept. 22	2365	609	32	1513
Feeder. Steam-boiler	F. Kleine and W. F. Achter	321,981	July 14	782	204	32	150
Feeder. Steam-boiler	C. A. Rickard	313,954	Mar. 17	1366	330	30	1029
Feeder. Stock	F. M. Ago	316,859	Apr. 28	2607	680	31	492
Feeder. Stock	E. R. Harman	312,462	Feb. 17	1374	379	30	690
Feeder. Time stock	T. L. Bissell	327,062	Sept. 29	2405	651	32	1500
Feeding device	J. W. Craig	324,090	Aug. 11	923	235	32	702
Feeding hogs. Device for	H. Sloan	331,564	Dec. 1	446	115	33	1077
Feeding-rack	H. D. Streator	329,500	Nov. 3	101	27	33	524
Feeding salt or compressed feed to cattle. Device for	M. S. Thompson	332,973	Dec. 22	2487	658	33	1464
Feeding-trough	J. S. Moody	313,227	Mar. 3	287	72	30	589
Felly boring and mortising machine combined	P. Petersen	328,906	Oct. 20	1701	443	33	526
Felly-clamp	G. M. Dillard	314,232	Mar. 24	1614	427	30	1103
Felly-dressing machine	W. Gardner	320,467	June 23	2094	552	31	1452
Felly-inserting device	J. G. Roh	314,197	Mar. 17	1570	415	30	1084
Felly machine. Wheel	W. H. Stevens	317,876	May 12	1266	337	31	763
Felly-making machine	H. D. Jeffery	325,241	Sept. 8	837	210	32	1176
Felly. Metallic	G. D. Haworth	319,410	June 2	579	158	31	1158
Felly. Vehicle-wheel	E. Danford	332,593	Dec. 15	1963	514	33	1360
Felly. Wheel	J. Maris	321,832	July 7	587	152	32	108
Felt and expelling water from the same. Machine for compressing and evening	C. H. Merritt	331,423	Dec. 1	245	65	33	1041
Felt and knit fabric. Combined	S. G. Alexander	325,808	Sept. 8	801	201	32	1169
Felt-cleaning apparatus	G. Dunn	319,567	June 9	808	215	31	1206
Felt having a cross-section varying in thickness throughout its width. Producing	C. B. Dolge	314,369	Mar. 24	1802	479	30	1138
Felt. Manufacture of hair-faced wool	C. B. Dolge	314,810	Mar. 31	2411	638	30	1276
Felted fabrics. Producing	C. B. Dolge	314,809	Mar. 31	2410	637	30	1276
Fence	I. W. Archibald	321,171	June 30	3010	797	31	1029
Fence	L. Barnes	324,517	Aug. 18	1516	417	32	819
Fence	F. A. Bartgis	314,419	Mar. 24	1864	496	30	1151
Fence	J. H. Bickley	319,057	June 2	151	41	31	1075
Fence	W. H. Boggs	313,248	Mar. 17	1110	288	30	1000
Fence	F. Bremerman	313,100	Mar. 3	182	44	30	810
Fence	W. H. Brevoort	310,555	Jan. 13	509	140	30	104
Fence	A. Brock	321,576	July 7	230	61	32	45
Fence	J. Bryant	317,495	May 12	773	197	31	672
Fence	S. and J. G. Calhoun	317,023	May 12	937	240	31	701
Fence	D. Camp	310,559	Jan. 13	514	141	30	105
Fence	J. G. Chambers and L. Byers	324,656	Aug. 18	1713	472	32	856
Fence	J. M. Coffman	315,248	Apr. 7	378	93	31	86
Fence	W. Cokayne	320,223	June 16	1710	454	31	1375
Fence	J. H. Crain	327,384	Sept. 29	2628	764	32	1576
Fence	J. Du Bois	331,285	Dec. 1	43	10	33	1007
Fence	D. M. Emmitt	315,134	Apr. 7	193	47	31	35
Fence	J. S. Ferguson	323,032	July 28	2214	585	32	494
Fence	J. F. Glidden	323,316	July 28	2612	694	32	498
Fence	E. W. Goodwin	315,767	Apr. 14	1165	280	31	207

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Fence.....	G. T. Hammond.....	317,344	May 5	567	145	31	627
Fence.....	J. N. Hudson.....	328,120	Oct. 13	800	208	33	151
Fence.....	G. H. Ives.....	322,039	July 28	2074	552	32	400
Fence.....	N. Knaub.....	314,184	Mar. 17	1554	407	32	1081
Fence.....	E. R. Michaelis.....	320,930	Nov. 10	685	175	33	640
Fence.....	S. J. Miller.....	329,197	Oct. 27	2278	590	33	435
Fence.....	J. T. Montgomery.....	317,414	Oct. 6	405	105	33	71
Fence.....	E. Myers.....	325,021	Sept. 1	537	136	32	1117
Fence.....	D. B. Peck.....	315,827	Apr. 14	1170	308	31	221
Fence.....	J. H. Phillips.....	317,717	Oct. 6	2-9	73	33	50
Fence.....	J. Prealer.....	314,605	Mar. 31	2118	565	30	1222
Fence.....	J. W. Read.....	323,444	Sept. 1	309	75	32	1074
Fence.....	A. J. Russell and W. M. Goolden.....	316,916	Apr. 28	2693	701	31	503
Fence.....	W. A. Tillman.....	315,088	Apr. 7	137	33	31	26
Fence.....	S. C. Town.....	316,418	Apr. 21	1988	522	31	372
Fence.....	T. F. Van Loven.....	310,024	Jan. 13	595	164	30	119
Fence.....	P. J. Wagner.....	322,121	Dec. 8	1303	338	33	1230
Fence.....	I. N. Watson.....	324,430	Aug. 18	1412	365	32	801
Fence.....	R. F. Wilcox.....	325,140	Aug. 25	2378	649	32	984
Fence.....	A. Zimmerman and J. Q. Shipley.....	324,741	Aug. 18	1817	502	32	877
Fence. Adjustable-panel snow-fence and post lifter.....	H. Gleason.....	329,040	Nov. 3	289	73	33	550
Fence-barb.....	E. B. Miller.....	311,138	Jan. 20	1291	355	30	252
Fence. Barb.....	G. H. Pattison.....	323,324	Aug. 4	445	127	32	606
Fence. Barb.....	G. M. Beerbower.....	327,335	Oct. 6	328	84	33	58
Fence. Barb.....	G. De Walt.....	312,440	Feb. 17	1341	369	30	614
Fence. Barb.....	F. D. Ford.....	310,807	June 9	1139	302	31	1265
Fence. Barb.....	J. Haisb.....	312,93	Dec. 15	1680	440	33	1312
Fence. Barb.....	J. Potter.....	311,008	Dec. 4	984	254	33	1182
Fence. Barb.....	E. S. Wheeler.....	321,364	June 30	3124	832	31	1650
Fence. Barb-wire.....	F. D. Ford.....	311,426	Jan. 27	1710	465	30	334
Fence. Barb-wire.....	F. D. Ford.....	311,740	Feb. 3	361	100	30	417
Fence. Barb-wire.....	F. D. Ford.....	312,354	Feb. 17	1365	377	30	618
Fence. Barb-wire.....	M. Kelly.....	322,108	July 14	959	249	32	183
Fence-barbs. Die for making metallic.....	A. P. Thayer.....	315,066	Apr. 7	134	31	31	26
Fence-barbs. Die for making metallic.....	A. P. Thayer.....	315,087	Apr. 7	135	32	31	26
Fence-barbs. Making metal.....	A. P. Thayer.....	315,084	Apr. 7	131	31	31	26
Fence-building machine.....	J. T. Fairburn.....	322,000	Dec. 15	1975	517	33	1362
Fence-building machine.....	W. N. Parriah.....	311,320	Dec. 1	86	21	33	1014
Fence. Farm.....	A. Ewer.....	326,002	Sept. 22	2288	598	32	1455
Fence. Farm.....	W. H. Reed.....	321,531	July 7	175	47	32	35
Fence. Flood.....	S. Ingels.....	315,991	Apr. 14	1406	365	31	261
Fence. Flood.....	A. Spear.....	326,090	Sept. 22	1960	515	32	1398
Fence. Flood.....	C. E. Van Aukun.....	316,854	Apr. 28	2599	679	31	490
Fence. Flood.....	J. D. Whittenburg.....	326,931	Sept. 22	2326	609	32	1463
Fence. Form and frame for building iron fence-guard. Barb-wire.....	F. O. Hanson.....	318,427	May 19	2005	540	31	908
Fence. Hedge.....	W. C. Reichenecker.....	310,506	June 9	728	195	31	1192
Fence. Iron.....	W. Young.....	317,000	May 12	913	234	31	697
Fence. Iron.....	H. L. Jones.....	313,825	Mar. 10	1066	274	30	984
Fence. Iron.....	G. W. McCann.....	315,648	Apr. 14	934	244	31	174
Fence latch. Wire.....	L. R. Orr.....	311,003	Feb. 3	194	55	30	385
Fence-lock.....	J. D. Albert.....	318,440	May 26	2023	545	31	921
Fence lock. Worm.....	J. J. Iglehart.....	313,072	Mar. 10	859	223	30	947
Fence-machine.....	J. P. Fulgham.....	330,887	Nov. 24	1942	526	33	698
Fence-machine.....	G. W. Homeher.....	322,822	July 21	1899	504	32	361
Fence machine. Barb.....	L. Cook.....	312,820	Feb. 24	1853	508	30	716
Fence. Machine for making picket wire.....	B. L. Fletcher, J. M. Dunkin, L. Hanhart, and C. M. Trautmann.....	319,895	June 9	1257	332	31	1286
Fence machine. Wire.....	L. W. Fillebrown, S. S. Gray, and J. A. Fillebrown.....	314,442	Mar. 24	1894	506	30	1156
Fence machine. Wire.....	J. Fisk.....	320,121	June 10	1579	417	31	1351
Fence machine. Wire.....	O. Jackson.....	323,423	Aug. 4	51	13.14	32	532
Fence machine. Wire.....	S. Watson.....	322,872	July 21	1972	522	32	374
Fence-making machine.....	G. Q. Adams.....	312,063	Feb. 10	812	222	30	507
Fence-making machine.....	N. P. Bradish.....	314,646	Mar. 31	2176	577	30	1232
Fence-making machine.....	S. D. Fry.....	326,029	Sept. 8	1076	274	32	1220
Fence-making machine.....	J. M. Harrop.....	321,359	June 30	3242	863	31	1673
Fence-making machine.....	L. Huiskamp.....	320,358	June 16	1930	508	31	1413
Fence-making machine.....	W. S. and D. Romigh.....	321,534	July 7	179	48	32	35
Fence-making machine.....	J. Williams and J. Reynolds.....	323,841	Aug. 4	529	160	32	634
Fence-making machine.....	J. Zengel.....	326,007	Sept. 8	1043	265	32	1215
Fence. Metallic.....	L. T. and W. H. Brookhart.....	326,535	Sept. 15	1745	455	32	1353
Fence. Metallic.....	C. Hanika.....	330,583	Nov. 17	1547	414	33	815
Fence nail. Barb-wire.....	P. Dunn and T. Harris.....	324,310	Aug. 11	1235	336	32	760
Fence-panel. Folding.....	J. J. Ogilvie.....	319,995	June 16	1409	370	31	1320
Fence. Panel picket.....	M. Dudley.....	323,392	Oct. 13	1159	299	33	219
Fence. Portable.....	G. T. Bale.....	324,801	Aug. 25	1915	528	32	901
Fence. Portable.....	C. H. Brandt and C. J. Werth.....	328,104	Oct. 13	780	203	33	148
Fence. Portable.....	H. W. Butterfield.....	333,279	Dec. 29	28.0	766	33	1548
Fence. Portable.....	G. H. Ives.....	315,038	Apr. 7	73	17	31	15
Fence. Portable.....	W. E. Jones.....	328,849	Oct. 20	1760	453	33	336
Fence. Portable.....	W. Kemery.....	321,978	July 14	779	203	32	150
Fence. Portable anchor.....	J. Du Bois.....	311,065	Jan. 20	1188	326	30	234
Fence-post.....	B. B. Adams.....	314,303	Mar. 24	1716	456	30	1122
Fence-post.....	E. R. Annable.....	311,710	Feb. 3	325	90	30	410
Fence-post.....	D. P. Baker.....	323,256	July 28	2516	668	32	422

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Fence-post	W. Bayliss	319,878	June 9	1238	327	31	1222
Fence-post	T. E. C. Brinly and F. E. Heinig	316,599	Apr. 28	2225	586	31	423
Fence-post	V. Brown	320,330	June 16	1885	495	31	1405
Fence-post	W. W. Carpenter and A. S. Dudley	310,250	Jan. 6	111	31	30	23
Fence-post	E. R. Copeland	323,793	Aug. 4	527	149	32	622
Fence-post	J. W. Davy	318,361	May 19	1919	518	31	893
Fence-post	J. E. Donaldson	332,141	Dec. 8	1336	346	33	1244
Fence-post	A. D. Doubleday	310,800	Jan. 13	818	221	30	160
Fence-post	M. and S. E. Foreman	317,757	May 12	1107	291	31	733
Fence-post	W. H. Gates	322,172	July 14	1042	270	32	198
Fence-post	L. Goddu	315,018	Apr. 7	43	9	31	9
Fence-post	A. Handley	314,377	Mar. 24	1809	481	30	1140
Fence-post	S. B. Harrod	318,428	May 19	2007	541	31	909
Fence-post	S. Hicks	331,969	Dec. 8	1070	278	33	1199
Fence-post	M. W. Huffaker	328,946	Oct. 27	1905	498	33	369
Fence-post	G. W. and C. M. Kiler	319,823	June 9	1163	307	31	1270
Fence-post	S. L. Knepper	332,807	Dec. 22	2259	595	33	1422
Fence-post	C. P. Leshar	319,277	June 2	415	111	31	1126
Fence-post	J. J. Ogilvie	325,357	Sept. 1	165	44	32	1046
Fence-post	D. Schweickhard	322,072	July 14	910	236	32	174
Fence-post	J. L. Smolley	312,524	Feb. 17	1470	402	30	636
Fence-post	C. W. Stambaugh	318,816	May 26	2533	676	31	1011
Fence-post	A. E. Stephenson	312,919	Feb. 24	1981	541	30	738
Fence-post	P. Vanbriggles	311,693	Feb. 3	305	83	30	406
Fence-post	J. J. Vinton	317,896	May 12	1297	347	31	769
Fence-post	B. Wheeler, Jr.	328,264	Oct. 13	976	254	33	185
Fence-post	T. E. Wilson	325,302	Sept. 1	99	28	32	1034
Fence-post	J. A. Wright	321,564	July 7	217	57	32	43
Fence-post anchor	J. Carpenter	319,558	June 9	799	212	31	1204
Fence-post and wire-fastening	E. C. Jones	327,443	Sept. 29	3000	784	32	1589
Fence-post. Metallic	W. Nendel and W. I. Knowlton	314,870	Mar. 31	2492	661	30	1291
Fence-post. Wire	J. Schafer	327,827	Oct. 6	421	109	33	74
Fence-posts. Wire-fastening device for	I. Droege, Jr.	322,359	July 14	1273	332	32	242
Fence-posts. Wire-fastening device for metal	W. H. M. Reese	318,635	May 26	2311	617	31	973
Fence-rail. Barbed	I. A. and M. D. Kilmer	317,799	May 12	1166	309	31	744
Fence-stay. Wire	W. M. Clow	323,389	Aug. 4	21	6	32	527
Fence-stay. Wire	J. J. Hutchins	328,890	Oct. 20	1814	473	33	346
Fence-strips. Device for making barbed	J. W. Ellis	310,394	Jan. 6	309	86	30	60
Fence-strips. Machine for making barbed	J. W. Roon	330,852	Nov. 17	1892	512	33	861
Fence-tool. Wire	J. B. Barron	314,779	Mar. 31	2375	628	30	1260
Fence. Wire	W. J. Adam	326,087	Sept. 15	1156	295	32	1243
Fence. Wire	F. H. Bissell	314,785	Mar. 31	2381	630	30	1270
Fence. Wire	A. Clark	314,430	Mar. 24	1880	502	30	1153
Fence. Wire	P. McOmber	331,807	Dec. 8	828	211	33	1153
Fence. Wire	H. B. Rains and G. Tarkington	314,877	Mar. 31	2501	663	30	1283
Fence. Wire	C. W. Weld	327,208	Sept. 29	2895	700	32	1537
Fence-wire. Barb	J. Haish	332,252	Dec. 15	1486	388	33	1277
Fence-wire. Barbed	W. Edenborn	313,929	Mar. 17	1236	321	30	1022
Fence-wire. Barbed	C. C. Hill	330,893	Nov. 24	1950	528	33	900
Fence-wire. Barbed	E. R. Matteson	330,993	Nov. 24	2081	563	33	924
Fence-wire carrier and stretcher	J. E. Blackmore	333,277	Dec. 29	2922	766	33	1548
Fence-wire coupling	N. H. Fuller and H. S. Hallock	311,480	Feb. 3	25	7	30	333
Fence-wire fastener	E. S. Lenox, F. H. Daniels, and J. D. Curtis	310,833	Jan. 13	858	223	30	168
Fence-wire machine. Barbed	O. P. Briggs and C. S. Locke	315,470	Apr. 14	682	178 179 180 382 383 384	31	127
Fence-wire. Machine for applying barbs to	J. Stubbe	328,621	Oct. 20	1470	383 384	33	222
Fence-wire. Machine for winding	E. W. Shoesmith	324,887	Aug. 25	2029	556	32	922
Fence-wire machines. Barb	L. W. Connell	325,733	Sept. 8	697	174 175	33	1150
Fence-wire reel	H. C. Lyons	325,616	Sept. 1	526	133	32	1115
Fence-wire reel device	W. S. Newth	330,610	Nov. 17	1578	423	33	822
Fence-wire strainer	S. W. Fulton	310,505	Jan. 6	434	119	30	84
Fence-wire stretcher	C. Konrad	316,153	Apr. 21	1635	428	31	310
Fence-wire-winding device	W. Logan	315,803	Apr. 14	1146	300	31	215
Fence-wires. Device for measuring the strain on	A. Overbagh	310,845	Jan. 13	875	236	30	171
Fence. Worm	D. A. McHenry	332,416	Dec. 15	1711	448	33	1317
Fences. Brace-wire fastening for wire	A. Lott	326,911	Sept. 22	2298	601	32	1457
Fences. Device for forming openings in wire	W. M. Clow	315,599	Apr. 14	869	328	31	161
Fences. Device to be used in constructing	J. Ulrich	313,634	Mar. 10	808	212	30	936
Fences. Machine for building and rerolling wire	J. S. Edge	323,303	July 28	2597	689	32	495
Fences. Machine for building picket	J. B. Snyder	325,574	Sept. 1	478	119	32	1107
Fences. Machine for making barbed-wire	L. E. Sunderland. (Reissue)	10,597	May 12	1383	371 372	31	786
Fences. Machine for making combined slat and wire	W. I. Brant	327,859	Oct. 6	458	119	33	81
Fences. Machine for making wire	L. W. and J. A. Fillebrown	322,096	July 14	940	243 244 245 757 758	32	180
Fences. Machine for manufacturing	C. A. Norling	321,047	June 30	2845	757 758	31	1599
Fences. Machine for manufacturing picket	J. B. Thies	316,849	Apr. 28	2593	677 678	31	489
Fences. Making barbed	F. D. Ford	310,813	Jan. 13	833	226	30	163
Fences. Metallic post for wire	T. J. Cox	314,654	Mar. 31	2189	580	30	1234
Fences. Visible guard for wire	R. Boone, Jr.	321,787	July 7	515	136	32	96
Fencing. Barbed	F. W. Brainerd	314,512	Mar. 24	1997	532	30	1173
Fencing. Connection for metallic	C. Hanika	330,584	Nov. 17	1548	414	33	816
Fencing. Die for making barbed	A. P. Thayer	311,150	Jan. 20	1309	360	30	255
Fencing. Die for making barbed	A. P. Thayer	312,404	Feb. 17	1294	357	30	605
Fencing. Die for making barbed	A. P. Thayer	313,031	Feb. 24	2138	521	30	766
Fencing. Die for making barbed metallic	A. P. Thayer	320,825	June 23	2543	673	31	1337
Fencing. Electric conductor for wire	C. Williamson	317,908	May 12	1312	351	31	773

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Fencing. Machine for making wire and picket.....	M. F. Connett	325,504	Sept. 1	382	94. 95	32	1088
Fencing. Machine for making wire and picket.....	T. B. Harrison	314,933	Mar. 31	2580	{ 683 684	30	1306
Fencing. Making barbed metallic.....	E. Jordan	314,183	Mar. 17	1551	{ 406 407	30	1081
Fencing. Making barbed metallic.....	A. P. Thayer	315,085	Apr. 7	133	31	31	26
Fencing. Metal.....	W. Bayliss	319,877	June 9	1237	327	31	1252
Fencing. Metallic.....	J. J. Brinkerhoff	324,221	Aug. 11	1118	{ 303 304	32	738
Fencing. Metallic.....	I. Kinney	312,864	Feb. 24	1921	526	30	727
Fencing. Register for measuring wire.....	S. D. Lindsay	333,137	Dec. 29	2734	718	33	1513
Fender: See Carriage-fender. Fire-fender. Carriage-wheel. Plow-fender. fender.							
Fermented beverages. Making certain.....	C. Pfandler	318,793	May 26	2499	667	31	1005
Fermented, fermentable, or distilled liquids. Apparatus for treating.....	C. W. Ramsay	313,237	Mar. 3	300	75	30	831
Fermenting liquids. Pressure-regulator for.....	A. S. Bigelow	324,642	Aug. 18	1696	{ 467 468	32	853
Fermenting liquids. Pressure-regulator for.....	M. Warren	320,422	June 16	2025	532	31	1431
Fermenting-vats. Pressure-regulator for.....	P. Schaar	316,491	Apr. 28	2092	{ 547 548	31	307
Ferro-nickel and ferro-cobalt. Making malleable.....	H. Marbeau, Ainé.....	310,901	Jan. 20	948	.....	30	190
Ferrules. Manufacturing.....	J. L. Parker	315,058	Apr. 7	104	24	31	20
Fertilizer.....	L. Haas	318,371	May 19	1931	.....	31	896
Fertilizer.....	L. Haas	327,256	Sept. 29	2756	.....	32	1547
Fertilizer.....	A. E. Wemple	330,075	Nov. 10	891	.....	33	621
Fertilizer and seed distributor.....	J. W. Downs	319,469	June 9	676	{ 181 182	31	1182
Fertilizer and seed distributor.....	P. S. Smith	328,349	Oct. 13	1085	283	33	206
Fertilizer-distributor.....	J. E. Clark	314,652	Mar. 31	2186	579	30	1234
Fertilizer-distributor.....	W. I. Collins	329,020	Oct. 27	2027	525	33	291
Fertilizer-distributor.....	N. A. Currie	312,334	Feb. 17	1201	329	30	587
Fertilizer-distributor.....	J. B. Denton	314,920	Mar. 31	2563	678	30	1303
Fertilizer-distributor.....	S. Freeman	321,705	July 7	396	106	32	74
Fertilizer-distributor.....	P. Johnson	325,249	Sept. 1	22	7	32	1019
Fertilizer-distributor.....	J. F. Keller. (Reissue).....	10,640	Aug. 25	2481	682	32	1007
Fertilizer-distributor.....	J. Kittle	330,333	Nov. 10	1210	324	33	745
Fertilizer-distributor.....	A. McKenney	328,596	Oct. 20	1428	372	33	275
Fertilizer-distributor.....	E. Ostensen	311,444	Jan. 27	1728	471	30	338
Fertilizer-distributor.....	H. O. Peabody	320,279	June 16	1792	{ 476 477	31	1389
Fertilizer-distributor.....	H. O. Peabody	325,269	Sept. 1	49	15	32	1025
Fertilizer-distributor.....	R. B. Sheldon and J. V. Peacock	318,045	May 19	1503	403	31	815
Fertilizer-distributor.....	J. E. Simpson	316,071	Apr. 21	1512	393	31	287
Fertilizer-distributor.....	L. C. Stalnaker	333,263	Dec. 29	2909	761	33	1545
Fertilizer-distributor and cultivator.....	H. A. Campbell	312,329	Feb. 17	1104	327	30	585
Fertilizer-distributor and planter.....	F. M. and W. E. King	310,308	Jan. 6	63	17	30	14
Fertilizer-distributor and stalk-breaker. Combined.....	J. Y. and A. Savage	333,164	Dec. 29	2768	{ 725 726	33	1519
Fertilizer-drill.....	A. W. Kappenberg	331,901	Nov. 24	2364	640	33	976
Fertilizer from tank-waters. Making a.....	C. Gibson	324,103	Aug. 11	940	.....	32	705
Fertilizer. Phosphate.....	W. S. Pierce	317,010	May 5	108	.....	31	542
Fertilizers. Apparatus for drying.....	H. Breer	313,401	Mar. 3	507	132	30	871
Fertilizers. Machine for mixing.....	W. B. Chisolm	311,291	Jan. 27	1524	415	30	300
Fiber-decorating machine.....	T. A. Smith	321,883	July 7	630	{ 162 163	32	115
Fiber-disintegrating machine.....	T. A. Smith	314,268	Mar. 24	1664	{ 442 443	30	1112
Fiber for textiles, cordage, &c. Treating animal and vegetable.....	W. W. Hamilton	332,513	Dec. 15	1840	.....	33	1340
Fiber for textiles, cordage, &c. Treating animal and vegetable.....	W. W. Hamilton	332,514	Dec. 15	1842	.....	33	1340
Fiber for upholstering. Treatment of animal and vegetable.....	W. W. Hamilton	332,515	Dec. 15	1845	.....	33	1340
Fiber. Machine for reducing quills, feathers, &c., to.....	G. R. Ho'den	328,680	Oct. 20	1551	404	33	297
Fiber preparatory to being felted. Machine for disintegrating.....	W. S. Archer	314,642	Mar. 31	2170	576	30	1231
Fiber-rubbing machine.....	A. Scott	315,666	Apr. 14	955	250	31	178
Fibers and leaves of plants. Cleaning and separating the pulpy matters from the.....	J. G. Stephens	328,355	Oct. 13	1094	{ 284 285	33	208
Fibers. Apparatus for cleansing pulpy matters from.....	J. G. Stephens	328,356	Oct. 13	1097	285	33	208
Fibers from leaves or plants. Machine for obtaining.....	G. Sanford	321,536	July 7	181	48	32	36
Fibers from plants. Machine for separating.....	J. B. Vogel	324,054	Aug. 11	872	{ 240 241	32	692
Fibers of leaves, &c. Machinery for cleaning and separating the pulpy matters from.....	J. G. Stephens	328,357	Oct. 13	1099	{ 285 286	33	209
Fibrous material from wood for surgical and other purposes. Manufacture of.....	J. Odelga	331,534	Dec. 1	396	.....	33	1070
Fibrous materials, &c. Chain and chain-wheel for machinery for preparing.....	J. Good	311,577	Feb. 3	160	45	30	378
Fibrous materials. Machine for drawing or spreading.....	J. Good	311,310	Jan. 27	1544	420	30	304
Fibrous plants. Roller-crusher for.....	F. Luft	330,989	Nov. 24	2076	562	33	924
Fifth-wheel.....	F. G. Dippus	316,869	Apr. 28	2621	683	31	494
Fifth-wheel.....	F. L. Ezell	315,926	Apr. 14	1322	344	31	245
Fifth-wheel.....	J. M. Foote	321,203	June 30	3051	809	31	1636
Fifth-wheel.....	L. C. Fuller	324,827	Aug. 25	1949	535	32	907
Fifth-wheel.....	B. F. Gorsuch	330,781	Nov. 17	1801	485	33	865
Fifth-wheel.....	J. W. Leece	316,276	Apr. 21	1790	470	31	337
Fifth-wheel.....	M. A. Pigott	319,846	June 9	1189	314	31	1274
Fifth-wheel.....	J. B. Rutherford	319,510	June 9	735	197	31	1193
Fifth-wheel.....	A. Sanford	327,598	Oct. 6	126	29, 30	33	24

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Fifth-wheel.....	S. P. Stillman.....	324,965	Aug. 25	2131	582	32	942
Fifth-wheel attachment.....	A. A. Meyers.....	329,194	Oct. 27	2275	509	33	435
Fifth-wheel heads. Die for.....	N. Eccles.....	312,828	Feb. 24	1870	512	30	719
Fifth-wheel. Vehicle.....	A. G. Johnson.....	324,116	Aug. 11	956	263	32	708
Fifth-wheel. Vehicle.....	E. E. Rowe.....	321,641	July 7	313	83	32	60
Fifth-wheel. Vehicle.....	T. Smith.....	314,068	Mar. 17	1400	365	30	1055
Fifth-wheel. Vehicle.....	L. B. Sneden and H. N. Holden.....	326,686	Sept. 22	1955	514	32	1397
File.....	H. G. Piffard.....	331,324	Dec. 1	91	22	33	1015
File and cutting the same.....	W. Tucker.....	320,899	June 23	2644	702	31	1555
File. Bill.....	T. E. Baden.....	321,333	June 30	3205	854	31	1606
File. Bill.....	G. H. Dunn.....	331,043	Nov. 24	2135	579	33	936
File. Bill.....	D. W. Garrigues.....	331,125	Nov. 24	2252	612	33	756
File. Bill.....	J. B. Swezey.....	332,921	Dec. 8	1443	372	33	1264
File box. Letter.....	G. V. Nauwerth and J. M. Jenkins.....	315,157	Apr. 7	237	58	31	43
File-case.....	E. B. Wight.....	324,625	Aug. 18	1669	460	32	848
File case. Bill.....	C. H. Moulton.....	323,877	Aug. 4	635	179	32	643
File-cutting machine.....	H. A. Foss.....	319,218	June 2	340	91, 92	31	1111
File-cutting machine.....	J. F. French.....	333,458	Dec. 29	3163	826	33	1568
File-cutting machine.....	H. J. Gosling.....	318,104	May 19	1578	423	31	830
File-cutting machine.....	H. F. W. Liebmann.....	323,874	Aug. 4	628	177	32	642
File for holding blanks.....	S. M. Meek.....	314,598	Mar. 31	2108	562	30	1220
File for letters, invoices, &c. Permanent.....	M. Silverberg.....	318,516	May 26	2127	573	31	941
File for preserving prescriptions.....	B. H. Colby.....	327,140	Sept. 29	2602	678	32	1518
File-holder.....	W. H. Phelps.....	312,012	Feb. 10	750	205	30	485
File. Letter.....	A. L. Colton.....	331,185	Nov. 24	2338	633	33	971
File. Letter.....	A. Dom.....	316,951	May 5	22	8	31	528
File. Letter.....	L. L. Ferris.....	327,389	Sept. 29	2314	766	32	1577
File. Letter.....	F. M. Rand.....	327,310	Sept. 29	2221	736	32	1559
File. Newspaper.....	A. Dom.....	331,872	Dec. 8	928	240	33	1172
File. Newspaper.....	F. M. Xiques.....	332,789	Dec. 22	2217	524	33	1414
File. Paper.....	W. Bright.....	311,951	Feb. 10	663	161	30	479
File. Paper.....	W. H. H. Clague.....	312,086	Feb. 10	647	231	0	514
File. Paper.....	W. F. Crafts.....	321,950	July 14	747	195	32	144
File. Paper.....	J. M. Jenkins.....	325,076	Sept. 8	613	155	32	1136
File. Paper.....	J. H. Laney.....	332,663	Dec. 15	2062	541	33	1379
File. Paper.....	F. D. Weber.....	310,758	Jan. 13	768	208	30	151
File. Paper.....	E. E. Webster.....	331,172	Nov. 24	2319	628	33	968
File. Paper.....	R. H. Welch.....	322,663	July 21	1687	448	32	323
File. Permanent and temporary letter.....	G. M. Patten.....	325,625	Sept. 1	542	137	32	1118
File. Photographic and card.....	W. Verbeck.....	310,586	Apr. 28	2211	561	31	490
File rack. Newspaper.....	H. D. West.....	321,164	June 30	3001	795	31	1626
File. Transfer.....	J. H. Laney.....	332,664	Dec. 15	2063	542	33	1379
Files. Cutting.....	C. M. Fairbanks.....	316,704	Apr. 28	2472	645	31	467
Files. Recutting.....	L. Chapman.....	318,957	June 2	37		31	1055
Filing-cabinet.....	F. W. Hoyt.....	324,324	Aug. 11	1256	341	32	764
Filing-case.....	J. H. Laney.....	332,665	Dec. 15	2064	542	33	1379
Filing-case.....	H. W. Keech.....	329,676	Nov. 3	336	26	33	568
Filing implement. Paper.....	L. P. Keech.....	318,990	June 2	79	20	31	1062
Filing way-bills, &c. Device for.....	W. H. Fox.....	322,274	July 14	1161	304	32	281
Filler and faucet. Combined.....	E. Kells.....	318,479	May 26	2071	550	31	930
Filler and faucet. Combined.....	E. Kells.....	326,747	Sept. 22	2065	537	32	1416
Filling and compressing machinery.....	J. Tickle and F. Leonardi.....	328,439	Oct. 13	1923	317	33	231
Filter.....	D. Biggs.....	315,463	Apr. 14	671	174	31	115
Filter.....	C. W. Bingham, Jr.....	327,646	Oct. 6	199	49	33	36
Filter.....	W. Dearden.....	316,124	Apr. 21	1597	417	31	308
Filter.....	A. C. De los Rios.....	312,187	Feb. 10	998	279	30	541
Filter.....	J. Demarest.....	324,541	Aug. 18	1544	426	32	825
Filter.....	J. H. Dumont.....	316,885	Apr. 28	2637	667	31	498
Filter.....	A. J. Giberson.....	318,465	May 26	2052	555	31	927
Filter.....	B. L. Hood.....	331,790	Dec. 8	808	206	33	1150
Filter.....	J. W. Hyatt.....	322,103	July 14	951	247	32	189
Filter.....	B. James.....	332,610	Dec. 15	1985	520	33	1365
Filter.....	W. L. Johnson.....	332,660	Dec. 15	2058	541	33	1378
Filter.....	V. M. Law.....	321,228	June 30	3080	817	31	1641
Filter.....	J. F. Le Beau.....	330,907	Nov. 24	1968	532	33	903
Filter.....	E. Loze and A. Helaers.....	319,917	June 9	1821	341	31	1229
Filter.....	J. Mallié.....	312,281	Feb. 17	1135	311	30	574
Filter.....	R. C. Moore.....	313,946	Mar. 17	1254	327	30	1026
Filter.....	W. Neracher.....	331,531	Dec. 1	393	105	33	1069
Filter.....	W. Neracher.....	332,422	Dec. 15	1722	451	33	1319
Filter.....	E. Noppel.....	328,333	Oct. 13	1068	277	33	202
Filter.....	H. Roeske.....	314,150	Mar. 17	1511	390	30	1074
Filter.....	H. Roeske.....	333,481	Dec. 29	3196	835	33	1594
Filter.....	F. X. Spitznagel.....	312,527	Feb. 17	1472	403	30	637
Filter.....	H. H. Teeter.....	329,505	Nov. 3	106	28	33	525
Filter.....	J. Thomson.....	320,985	June 30	2768	735	31	1584
Filter.....	R. P. A. Turcot.....	316,674	Apr. 28	2320	609	31	440
Filter.....	J. E. Warren.....	332,979	Dec. 22	2494	659	33	1465
Filter.....	E. F. Wheelock.....	324,622	Aug. 18	1666	460	32	847
Filter.....	A. N. Wilson.....	314,281	Mar. 24	1622	448	30	1115
Filter and cooler. Combined.....	J. C. Jewett.....	330,404	Nov. 17	1326	353	33	773
Filter-bed.....	E. Holden.....	323,620	Aug. 4	329	111	32	585
Filter. Bone-black.....	F. O. Matthiessen.....	329,329	Oct. 27	2471	638	33	472
Filter. Capillary.....	J. A. Tupper.....	311,452	Jan. 27	1737	473	30	340
Filter-case. Hard-rubber.....	E. K. Haynes.....	316,457	Apr. 28	2048	537	31	389

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Filter. Floating.	J. H. Breesee	318,689	May 26	2356	629	31	981
Filter for filtering saccharine liquids. Bone-black.	T. Gaunt	329,306	Oct. 27	2434	631	33	465
Filter for filtering sugar-liquor. Bone-black.	F. O. Matthiessen	329,185	Oct. 27	2257	585	33	432
Filter for filtering sugar-liquor. Continuous.	F. O. Matthiessen	329,184	Oct. 27	2255	585	33	432
Filter for purifying water. Submerged water.	W. G. Himrod.	326,500	Sept. 15	1697	443	32	1343
Filter. Hydrant.	G. W. Shawk	322,486	July 21	1458	384	32	281
Filter. Oil.	J. Baker	328,872	Oct. 20	1784	465	33	341
Filter. Oil.	D. S. Neiman	320,274	June 16	1786	475	31	1387
Filter-ventilator.	T. B. Howe	325,803	Sept. 8	794	199	32	1168
Filter. Water.	O. S. Lindon	325,681	Sept. 8	619	157	32	1137
Filters. Apparatus for cleaning the filtering media of	J. E. Hodgkin and E. Perrett.	317,457	May 5	719	181	31	653
Filters. Bone-black discharger for continuous	T. Gaunt	329,305	Oct. 27	2433	630	33	465
Filtering apparatus.	W. Anderson	322,148	July 14	1015	264	32	193
Filtering apparatus.	J. W. Hyatt	322,102	July 14	940	246	32	181
Filtering apparatus.	G. H. Moore	329,064	Oct. 27	2087	542	33	401
Filtering apparatus.	W. Oldham	330,145	Nov. 10	979	255	33	639
Filtering apparatus.	C. W. E. Piefke	311,257	Jan. 27	1464	400	30	290
Filtering apparatus.	K. W. Vogel.	316,925	Apr. 28	2703	704	31	510
Filtering device.	W. E. Lindsley	312,735	Feb. 24	1738	478	30	695
Filtering liquids. Apparatus for	M. M. Monsanto	331,725	Dec. 1	794	181	33	1125
Filtering material. Revivifying	J. W. J. Reford	315,837	Apr. 14	1187	310	31	222
Filtering media. Producing	F. Breyer	321,947	July 14	742	194	32	143
Filtering-paper	G. H. Billings, E. W. Carter, and D. R. Smith.	311,223	Jan. 27	1423	387	30	292
Filtering-paper	E. W. Carter and D. R. Smith	313,174	Mar. 3	189	46	30	812
Filtering-paper	S. H. Johnson	328,947	Oct. 27	1907		33	399
Filtering-tank	A. Doughton	320,545	June 23	2194	579	31	1470
Filtration through bone-black. Apparatus for decolorizing saccharine and other liquids by	F. O. Matthiessen and E. E. Quimby.	329,330	Oct. 27	2473	638	33	472
Filtration through bone-black. Apparatus for decolorizing sugar-liquor by upward	F. O. Matthiessen	329,332	Oct. 27	2478	639	33	473
Filtration through bone-black. Apparatus for decolorizing sugar-liquor by upward	E. E. Quimby	329,210	Oct. 27	2299	595	33	439
Finger. Automatic artificial	I. Bashore	319,776	June 9	1084	288	31	1256
Finger-exercising machine.	G. A. Liebig, Jr.	318,916	May 26	2663	705	31	1036
Finger-nail cleaning and trimming apparatus	G. D. Burton	327,085	Sept. 20	2407	652	32	1500
Finger-ring	J. Bulova	327,431	Sept. 20	2385	780	32	1586
Finger-ring	J. W. Gwinn	323,322	July 28	2019	696	32	500
Finger-ring	R. A. Kullmann	313,064	Mar. 3	59	16	30	769
Finger-ring	W. H. Richmond	331,080	Nov. 24	2195	594	33	946
Finger-ring. Adjustable	F. N. Foster	322,435	July 21	1377	360	32	268
Finger-ring, &c.	B. D. Trattel and H. Ruyter	317,596	May 12	898	230	31	694
Finger-rings. Device for severing.	J. H. Thomas	328,154	Oct. 13	842	219	33	159
Finger-rings. Machine for enlarging	N. Clark	318,690	May 26	2366	631	31	983
Finger-rings. Manufacture of.	E. E. Hanf	324,553	Aug. 18	1557	429	32	828
Fire-alarm	G. J. Crickelair	317,931	May 12	1339	360	31	778
Fire-alarm box. Automatic	W. C. Hess	310,424	Jan. 6	339	93	30	66
Fire-alarm. Electric.	S. A. Chase	322,638	Dec. 15	2021	531	33	1371
Fire-alarm signal.	W. J. Keenan and E. M. Wilson.	333,131	Dec. 29	2794	715	33	1511
Fire-alarm signal-box	J. Young	313,040	Feb. 24	2146	584	30	768
Fire-alarms. Device for preventing false.	E. Jungerman	320,068	June 16	1502	398	31	1339
Fire-arm	W. H. Davenport	320,637	June 23	2317	612	31	1492
Fire-arm	W. H. Davenport.	326,276	Sept. 15	1417	369	32	1290
Fire-arm	W. H. Elliot.	325,513	Sept. 1	403	98	32	1092
Fire-arm	A. Hyde.	326,966	Sept. 29	2397	627	32	1483
Fire-arm. Breech-loading	W. Anson	327,914	Oct. 6	529	138	33	95
Fire-arm. Breech-loading	E. A. Bassett	325,901	Sept. 8	903	227	32	1189
Fire-arm. Breech-loading	H. Briggs	327,880	Oct. 6	459	119	33	81
Fire-arm. Breech-loading	H. F. Clark	328,005	Oct. 13	647	171	33	124
Fire-arm. Breech-loading	J. B. Davis	315,253	Apr. 7	381	94	31	69
Fire-arm. Breech-loading	A. Dickerman	323,501	Aug. 4	156	46	32	551
Fire-arm. Breech-loading	W. H. Elliot.	314,570	Mar. 31	2076	555	30	1214
Fire-arm. Breech-loading	J. Harder	319,482	June 9	698	187	31	1187
Fire-arm. Breech-loading	J. Hurst and H. Schultz	312,564	Feb. 17	1521	414	30	647
Fire-arm. Breech-loading	D. Kirkwood	318,001	May 19	1445	387	31	895
Fire-arm. Breech-loading	E. L. Lake	310,689	Jan. 13	680	187	30	135
Fire-arm. Breech-loading	D. M. Lefever	329,397	Oct. 27	2579	665	33	490
Fire-arm. Breech-loading	S. A. Sullenberger	330,354	Nov. 10	1244	332	33	751
Fire-arm. Breech-loading	W. S. Teall	322,568	July 21	1570	414	32	300
Fire-arm. Breech-loading	J. Turner	321,923	July 7	703	184	32	128
Fire-arm. Breech-loading	M. Wheeler	329,793	Nov. 3	491	124	33	598
Fire-arm. Electric	J. W. Frost	319,898	June 9	1266	334	31	1287
Fire-arm. Electric	J. K. G. Gavitt	352,071	Dec. 8	1923	319	33	1226
Fire-arm. Electric	F. E. Kinsman.	317,545	May 12	835	215	31	682
Fire-arm hammer	S. S. Hopkins	311,323	Jan. 27	1560	425	30	307
Fire-arm lock	J. B. Bull	313,170	Mar. 3	183	44	30	811
Fire-arm lock	F. W. Hood	316,622	Apr. 28	2251	583	31	427
Fire-arm lock	J. S. Landers and D. B. Wesson	323,873	Aug. 4	627	177	32	641
Fire-arm magazine.	R. F. Cook	313,851	Mar. 17	1113	269	30	1001
Fire-arm magazine.	L. F. Diss	313,856	Mar. 17	1119	290	30	1092
Fire-arm magazine.	R. T. Hare	322,886	Dec. 22	2385	631	33	1445
Fire-arm. Magazine.	J. M. and M. S. Browning	324,297	Aug. 11	1216	331	32	757
Fire-arm. Magazine.	A. Burgess. (Reissue)	10,555	Feb. 8	522	141	30	447
Fire-arm. Magazine.	R. S. Chaffee	314,363	Mar. 24	1791	476	30	1136

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fire-arm. Magazine.	I. Curtis and L. J. Russell.	310,880	Apr. 28	2630	686	31	496
Fire-arm. Magazine.	C. J. Ehbets.	310,761	Apr. 28	2469	644	31	467
Fire-arm. Magazine.	C. J. Ehbets.	318,711	May 26	2382	636	31	966
Fire-arm. Magazine.	W. H. Elliot.	323,922	Aug. 11	699	196	32	662
Fire-arm. Magazine.	W. B. Franklin.	314,883	Mar. 31	2428	{ 641 } 642	30	1279
Fire-arm. Magazine.	W. B. Franklin.	326,491	Sept. 15	1683	440	32	1341
Fire-arm. Magazine.	J. D. Greene.	312,201	Feb. 10	1013	276	30	543
Fire-arm. Magazine.	P. Kerrin.	333,307	Dec. 29	2971	{ 777 } 778	33	1556
Fire-arm. Magazine.	F. F. Knous.	316,999	Apr. 28	2664	694	31	503
Fire-arm. Magazine.	F. F. Knous.	324,330	Aug. 11	1263	343	32	766
Fire-arm. Magazine.	F. F. Knous.	332,203	Dec. 8	1408	364	33	1257
Fire-arm. Magazine.	J. M. Marlin.	315,645	Apr. 14	930	244	31	173
Fire-arm. Magazine.	J. M. Marlin.	316,554	Apr. 28	2167	570	31	412
Fire-arm. Magazine.	W. Mason.	311,079	Jan. 20	1211	332	30	238
Fire-arm. Magazine.	W. Mason.	312,139	Feb. 10	914	248	30	526
Fire-arm. Magazine.	H. S. Maxim.	317,162	May 5	318	80	31	581
Fire-arm. Magazine.	H. S. Maxim.	319,585	June 9	855	227	31	1215
Fire-arm. Magazine.	S. H. Roper.	316,401	Apr. 21	1854	515	31	366
Fire-arm. Magazine.	C. Salvator and G. Von Dormus.	326,676	Sept. 22	1935	{ 509 } 510	32	1393
Fire-arm. Magazine.	G. N. Spencer.	310,328	Jan. 6	231	63	30	44
Fire-arm. Magazine.	M. Sporer.	320,186	June 16	1660	{ 441 } 442	31	1366
Fire-arm. Magazine.	P. W. Strong.	325,774	Sept. 8	755	189	32	1161
Fire-arm. Repeating.	A. Chuchui.	325,053	Aug. 25	2250	618	32	964
Fire-arm. Revolving.	W. H. Bliss.	313,048	Mar. 3	13	4	30	781
Fire-arm. Revolving.	J. Boland.	317,965	May 19	1399	{ 375 } 376	31	796
Fire-arm. Revolving.	D. Smith.	315,352	Apr. 7	503	129	31	99
Fire-arm. Revolving.	D. Smith.	318,315	May 19	1858	499	31	861
Fire-arm. Revolving.	W. Trabue.	314,494	Mar. 24	1974	525	30	1169
Fire-arm. Revolving.	W. Trabue.	314,754	Mar. 31	2309	613	30	1257
Fire-arm. Revolving.	D. B. and J. H. Wesson.	323,837	Aug. 4	584	165	32	633
Fire-arm safety-lock.	P. A. Altmeuler.	320,038	June 16	1463	385	31	1231
Fire-arm safety-lock.	C. J. Ehbets.	311,732	Feb. 3	351	97	30	415
Fire-arm safety-lock mechanism.	D. B. Wesson.	323,838	Aug. 4	586	165	32	634
Fire-arm safety-lock mechanism.	D. B. Wesson.	323,839	Aug. 4	587	165	32	634
Fire-arm safety-stop.	J. C. Kelton.	338,416	Dec. 29	3108	810	33	1579
Fire-arm sight.	H. F. Clark.	319,068	June 2	168	45	31	1079
Fire-arm sight.	W. Lyman.	327,957	Oct. 6	585	152	33	105
Fire-arm sight.	W. Maynard.	318,999	June 2	87	42	31	1064
Fire-arm sight.	W. G. Owen.	333,024	Dec. 22	2572	676	33	1479
Fire-arm sight-plumb.	S. W. Taylor.	316,416	Apr. 21	1985	522	31	371
Fire-arm sight-protector.	J. C. Kelton.	313,212	Mar. 3	254	64	30	824
Fire-arm stock.	J. Hermle.	311,755	Feb. 3	382	105	30	421
Fire-arm stock.	J. P. Onderdonk.	319,613	June 9	882	233	31	1219
Fire-arms. Electric sight for.	W. Winans.	320,200	June 16	1675	446	31	1369
Fire-arms. Feeding mechanism for breech-loading.	R. S. Chaffee.	314,515	Mar. 24	1999	533	30	1173
Fire-arms. Gas-check for.	J. E. Tyler.	325,878	Sept. 8	883	223	32	1186
Fire-arms. Rifling.	M. C. De Arguibel.	315,746	Apr. 14	1076	282	31	801
Fire-board.	M. Gallagher.	319,221	June 2	345	93	31	1112
Fire-box. Adjustable.	M. Franco.	318,716	May 26	2389	637	31	987
Fire-box muffler.	A. Berney.	319,778	June 9	1085	289	31	1257
Fire-boxes. Deflector-plate for.	A. J. Stevens.	329,603	Nov. 3	247	64	33	552
Fire-cracker.	C. E. Masten.	321,833	July 7	588	152	32	106
Fire-cracker holder.	W. Nugent.	329,068	Oct. 27	2094	544	33	402
Fire-engine.	H. Losse.	321,510	July 7	133	35	32	27
Fire-engine. Chemical.	W. Morrison.	313,755	Mar. 10	977	252	30	967
Fire-engine houses. Man-hole for.	E. O. Chasé.	325,731	Sept. 8	695	173	32	1149
Fire-engine system. Electric.	S. S. Wheeler.	312,939	Feb. 24	2004	548	30	743
Fire-engines. Apparatus for lighting the fires of steam.	L. Campbell.	315,721	Apr. 14	1032	271	31	193
Fire-engines. Relief-valve for steam.	J. E. Prunty.	311,145	Jan. 20	1301	358	30	254
Fire-escape.	M. A. Arrowsmith.	323,288	July 28	2561	682	32	490
Fire-escape.	W. H. Barr.	328,637	Oct. 20	1499	390	33	987
Fire-escape.	W. C. Barkley.	325,381	Sept. 1	217	55	32	1056
Fire-escape.	E. Beale and A. Bangs.	317,704	May 12	1040	270	31	790
Fire-escape.	E. H. Bergmann.	324,914	Aug. 25	2065	565	32	929
Fire-escape.	A. G. Bierbach.	320,256	Oct. 27	2363	611	33	452
Fire-escape.	J. H. Bowley.	311,605	Feb. 3	443	120	30	432
Fire-escape.	H. E. Braunfeld.	316,870	Apr. 28	2622	683	31	485
Fire-escape.	J. and J. J. Brückner.	320,359	Oct. 27	2519	649	33	479
Fire-escape.	H. Chamberlain.	313,709	Mar. 10	907	236	30	955
Fire-escape.	W. C. Cronmeyer.	318,600	May 26	2242	601	31	960
Fire-escape.	D. F. Davis.	325,399	Sept. 1	250	62	32	1063
Fire-escape.	G. Denison.	316,757	Apr. 28	2464	643	31	465
Fire-escape.	J. Dittick.	319,888	June 9	1250	330	31	1284
Fire-escape.	J. Dittick.	326,726	Sept. 22	2040	531	32	1412
Fire-escape.	W. B. Doolittle.	324,670	Aug. 18	1730	{ 476 } 477	32	859
Fire-escape.	L. A. H. Engelke.	326,961	Sept. 29	2369	619	32	1477
Fire-escape.	W. A. Evers.	323,924	Aug. 11	701	{ 196 } 197	32	662
Fire-escape.	I. Farrar and J. A. Powers.	311,889	Feb. 10	577	158	30	464
Fire-escape.	E. W. Fliegenbaum.	314,287	Mar. 24	1601	451	30	1117
Fire-escape.	J. Fisher and A. Coquillard.	331,123	Nov. 24	2250	612	33	456
Fire-escape.	J. Fleming.	331,191	Nov. 24	2350	{ 635 } 636	33	973
Fire-escape.	J. Flietner.	330,103	Nov. 10	923	240	33	627
Fire-escape.	J. R. Fuller.	331,459	Dec. 1	330	89	33	1057
Fire-escape.	H. Gollings.	323,140	July 28	2355	625	32	453
Fire-escape.	T. P. Hall.	310,675	Jan. 13	659	181	30	131

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Fire-escape	S. Hargrave, Sr., and A. M. Lee	321,212	June 30	3061	812	31	1638
Fire-escape	G. M. Heath	315,025	Apr. 7	51	12	31	11
Fire-escape	W. F. High	316,960	May 5	51	13	31	532
Fire-escape	C. Hoell	317,534	May 12	810	210	31	680
Fire-escape	P. Huber	329,648	Nov. 3	300	76	33	561
Fire-escape	M. B. Ingersoll	320,474	June 23	2102	554	31	1453
Fire-escape	C. W. Joynt	311,661	Feb. 3	265	73	30	398
Fire-escape	P. S. Keck and J. J. Schadt	332,255	Dec. 15	1493	391	33	1279
Fire-escape	G. W. Kern	322,613	July 21	1626	430	32	311
Fire-escape	F. Kogoschek	325,180	Aug. 25	2414	663	32	994
Fire-escape	O. G. Lee	320,664	June 23	2353	621	31	1500
Fire-escape	Z. Ludwig	312,874	Feb. 24	1932	528	30	729
Fire-escape	D. J. MacLean	328,953	Oct. 27	1914	500	33	371
Fire-escape	L. B. McDonald	310,603	Jan. 13	570	158	30	115
Fire-escape	T. D. McKinzie	329,190	Oct. 27	2269	587	33	434
Fire-escape	R. Molyneux	319,920	June 9	1294	342	31	1292
Fire-escape	P. H. Montague	328,331	Oct. 13	1066	277	33	202
Fire-escape	P. H. Montague	331,428	Dec. 1	250	66	33	1042
Fire-escape	P. H. Montague	331,429	Dec. 1	231	66	33	1042
Fire-escape	H. F. Neumeyer	331,081	Nov. 24	2168	593	33	945
Fire-escape	R. H. Nichols	311,669	Feb. 3	273	76	30	400
Fire-escape	I. D. Pasco	332,554	Dec. 15	1909	500	33	1351
Fire-escape	W. R. Price	318,391	May 19	1960	527	31	901
Fire-escape	G. W. Putnam	313,024	Feb. 24	2129	579	30	765
Fire-escape	W. R. Pyne	321,385	June 30	3274	875	31	1679
Fire-escape	H. Rensch	318,293	May 19	1816	486	31	875
Fire-escape	W. Robinson	327,111	Sept. 29	2566	669	32	1512
Fire-escape	S. Samper	318,299	May 19	1826	489	31	877
Fire-escape	J. E. Sandberg and M. Akeson	326,336	Sept. 15	1499	391	32	1307
Fire-escape	G. Scheidt and J. A. Rehard	311,039	Jan. 20	1148	313	30	227
Fire-escape	C. Scradar and F. W. Kittler	317,862	May 12	1252	332	31	760
Fire-escape	L. Sees	328,345	Oct. 13	1081	281	33	205
Fire-escape	F. Shickle	312,908	Feb. 24	1966	538	30	735
Fire-escape	F. Shickle	312,909	Feb. 24	1968	538	30	736
Fire-escape	F. Shickle	312,910	Feb. 24	1968	538	30	736
Fire-escape	I. S. Smeltzer	322,206	July 14	1085	282	32	206
Fire-escape	S. Snyder	325,450	Sept. 1	318	77	32	1076
Fire-escape	F. Steinebach and H. Wright	326,169	Sept. 15	1263	325	32	1262
Fire-escape	D. S. Thomas	314,628	Mar. 31	2151	572	30	1227
Fire-escape	J. Walsh	325,998	Sept. 8	1031	262	32	1212
Fire-escape	C. S. Watson	331,746	Dec. 1	752	190	33	1132
Fire-escape	E. Watts	314,355	Mar. 24	1784	474	30	1135
Fire-escape	L. Werner	323,092	July 28	2298	607	32	441
Fire-escape	J. W. Wetmore	333,182	Dec. 29	2794	731	33	1523
Fire-escape	H. Wettstein	312,683	Feb. 24	1669	459	30	683
Fire-escape	H. Wettstein	312,684	Feb. 24	1671	460	30	684
Fire-escape	C. P. Willson	319,370	June 2	529	144	31	1149
Fire-escape	J. H. Wilson	325,142	Aug. 25	2359	650	32	984
Fire-escape	H. O. Woodbury and S. T. Thacher, Jr.	326,616	Sept. 22	1862	487	32	1379
Fire-escape	T. B. Woodward	327,976	Oct. 6	611	159	33	110
Fire-escape	R. Woolliscroft	324,971	Aug. 25	2130	585	32	943
Fire-escape and elevator	C. R. S. Curtis	320,854	June 23	2583	684	31	1545
Fire-escape and water-tower combined	C. A. Lieb	316,375	Apr. 21	1918	507	31	360
Fire-escape. Automatic	F. A. Done	312,076	Feb. 10	833	227	30	511
Fire-escape ladder	J. Barnett	312,793	Feb. 24	1818	499	30	709
Fire-escape ladder	R. M. Henderson and J. A. Glaesline	328,943	Oct. 27	1902	497	33	368
Fire-escape ladder	T. A. Kimmell	319,824	June 9	1164	307	31	1270
Fire-escape ladder	A. Roso	331,736	Dec. 1	740	186	33	1129
Fire-escape ladder	L. Swenson	316,415	Apr. 21	1984	521	31	371
Fire-escape ladder	R. M. Wilson	314,899	Mar. 31	2536	671	30	1298
Fire-escape ladder and ventilating-flue. Combined.	J. W. Evans	311,230	Jan. 27	1442	393	30	286
Fire-escape platform	R. Hamill	316,960	May 5	41	11	31	530
Fire-escape. Portable	W. H. Bechtel	322,778	July 21	1838	498	32	351
Fire-escape. Portable	H. Wettstein	312,415	Feb. 17	1308	361	30	607
Fire-escape step-rod attachment	W. H. Barr	328,636	Oct. 20	1498	390	33	287
Fire-escape tower	C. Clarke	318,086	May 19	1554	417	31	825
Fire-extinguisher	J. W. Bishop	332,041	Dec. 8	1179	309	33	1218
Fire-extinguisher	J. M. Giblin	310,888	Jan. 20	929	253	30	187
Fire-extinguisher	J. A. House and C. H. Dimond	318,744	May 26	2432	651	31	994
Fire-extinguisher	W. M. Le Moyne	328,319	Oct. 13	1045	270	33	198
Fire-extinguisher	J. S. Shrawder	311,204	Jan. 27	1389	379	30	276
Fire-extinguisher	D. B. Smith	325,982	Sept. 8	1008	257	32	1209
Fire-extinguisher	W. H. Stratton	316,581	Apr. 28	2200	579	31	418
Fire-extinguisher and alarm. Automatic	G. W. Laudon	323,160	July 28	2380	631	32	457
Fire-extinguisher. Automatic	E. H. Ashcroft	324,209	Aug. 11	1104	298	32	735
Fire-extinguisher. Automatic	C. Barnes	319,774	June 9	1082	288	31	1256
Fire-extinguisher. Automatic	C. Barnes	324,977	Aug. 25	2149	587	32	945
Fire-extinguisher. Automatic	J. Buel	329,360	Oct. 27	2320	649	33	479
Fire-extinguisher. Automatic	A. M. Granger	313,724	Mar. 10	928	241	30	959
Fire-extinguisher. Automatic	W. Harkness	323,578	Aug. 4	254	75	32	569
Fire-extinguisher. Automatic	J. Hill	329,311	Oct. 27	2443	632	33	467
Fire-extinguisher. Automatic	C. L. Horack	310,432	Jan. 6	348	95	30	6
Fire-extinguisher. Automatic	C. L. Horack	313,423	Mar. 3	335	141	30	87
Fire-extinguisher. Automatic	J. A. House	318,743	May 26	2431	651	31	99
Fire-extinguisher. Automatic	M. Ruthenburg	318,508	May 26	2109	569	31	93
Fire-extinguisher. Automatic	D. C. Stillson	311,088	Jan. 20	1223	335	30	24

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fire-extinguisher. Automatic	E. H. Williams	328,908	Oct. 20	1839	480	33	351
Fire-extinguishing apparatus	W. A. Reid	319,899	Feb. 24	1953	533	30	733
Fire-extinguishing apparatus	J. R. Smith	314,887	Mar. 31	2514	666	30	1295
Fire-extinguisher. Chemical	T. E. Connelly	317,513	May 19	798	204	31	676
Fire-extinguisher. Chemical	J. A. De Mauciero	329,587	July 21	1593	420	32	305
Fire-extinguisher. Chemical	R. Dowson and J. Taylor	323,859	Aug. 4	612	172	32	638
Fire-extinguisher. Chemical	W. Gee	315,610	Apr. 14	824	232	31	104
Fire-extinguisher. Chemical	G. A. Lindgren	323,170	July 28	2386	636	32	459
Fire-extinguisher. Chemical	E. F. Steok	327,342	Sept. 29	2866	748	32	1565
Fire-extinguisher. Chemical	T. G. Turner	333,177	Dec. 29	2786	730	33	1522
Fire-extinguisher. Chemical	J. A. Wagner	321,161	June 30	2996	794	31	1625
Fire-extinguisher. Chemical hand	E. H. Lewis	317,152	May 5	299	77	31	578
Fire-extinguisher. Hand	G. L. Chapin	322,683	July 21	1709	453	32	328
Fire-extinguisher. Hand	O. E. Conner	320,225	June 16	1713	455	31	1375
Fire-extinguisher. Hand	O. E. Conner and T. C. McNamara	320,226	June 16	1714	455	31	1376
Fire-extinguisher. Hand	A. W. Porter	323,528	Aug. 4	190	55	32	557
Fire-extinguisher. Hand	J. S. Zerbe	320,425	June 16	2031	533	31	1432
Fire-extinguisher. Hand chemical	A. B. Harrison	329,308	Oct. 27	2439	622	33	466
Fire-extinguisher. Hand-grenade	H. C. Hart	324,024	Aug. 11	833	221	32	686
Fire-extinguisher. Hand-grenade	A. Jones	318,908	May 26	2654	703	31	1034
Fire-extinguisher. Hand-grenade	N. Mitchell	324,577	Aug. 18	1590	438	32	834
Fire-extinguisher holder	E. C. Nelson	322,468	July 21	1425	373	32	276
Fire-extinguishers. Automatic sprinkler for	A. M. Granger	331,394	Dec. 1	195	50	33	1032
Fire-extinguishers. Fusible link for automatic	O. B. Hall	324,316	Aug. 11	1244	338	32	762
Fire-extinguishing apparatus	T. Evans	326,962	Sept. 29	2371	620	32	1478
Fire-extinguishing apparatus	J. Hill	329,741	Nov. 3	425	109	33	585
Fire-extinguishing apparatus. Automatic	C. Barnes	316,223	Apr. 21	1717	451	31	325
Fire-extinguishing apparatus. Automatic	O. B. Hall	327,876	Oct. 6	475	124	33	84
Fire-extinguishing apparatus. Automatic	D. C. Stillson	326,691	Sept. 22	1961	516	32	1398
Fire-extinguishing apparatus. Automatic	D. C. Stillson	333,171	Dec. 29	2777	727	33	1520
Fire-extinguishing apparatus. Chemical	J. Britto	323,229	Dec. 15	1453	377	33	1272
Fire-extinguishing compound	G. W. Eddison	327,929	Oct. 6	549	.....	33	98
Fire-extinguishing compound	F. Fröhlich	310,404	Jan. 6	321	.....	30	62
Fire-extinguishing compound	J. M. Giblin	310,887	Jan. 20	928	.....	30	187
Fire-extinguishing compound	J. M. Giblin	310,889	Jan. 20	930	.....	30	187
Fire-extinguishing compound	W. H. Polleys	328,250	Oct. 13	961	.....	33	183
Fire-extinguishing compound	J. R. Smith	314,888	Mar. 31	2513	.....	30	1295
Fire-extinguishing grenade	M. H. Piper	324,414	Aug. 18	1322	376	32	735
Fire-extinguishing hand-grenades. Hermetical seal for liquid	J. H. Peirce	314,148	Mar. 17	1509	395	30	1074
Fire-fender	J. W. Ella	312,620	Feb. 24	1587	435	30	668
Fire-front	P. McCauley	312,143	Feb. 10	921	250	30	527
Fire-iron stand and support for coal-vases. Combined	G. Russell	312,513	Feb. 17	1458	399	30	634
Fire-kindler	G. W. Brown	316,327	Apr. 21	1851	429	31	348
Fire-kindler	A. W. Hall	318,246	May 19	1759	470	31	864
Fire-kindler	J. E. Hignutt	321,027	June 30	2926	751	31	1525
Fire-kindler	P. McMenamin	332,816	Dec. 22	2228	598	33	1424
Fire-kindler	J. Meil	320,268	June 16	1766	.....	31	1385
Fire-kindler. Automatic	L. E. Osborne	329,070	Oct. 27	2096	544	33	402
Fire-lighter and kindler	P. T. Hamberg	313,419	Mar. 3	529	139	30	876
Fire-lighter. Automatic	N. Archibald	311,463	Feb. 3	4	1	30	349
Fire-place	C. Hughes	319,722	June 9	1020	270	31	1245
Fire-place	E. Chickering. (Reissue)	10,610	June 16	2067	543	31	1439
Fire-place	W. Crook	310,822	Jan. 20	922	232	30	186
Fire-place	R. R. Jones	313,675	Mar. 10	861	224	30	948
Fire-place	M. King	329,747	Nov. 3	433	110	33	586
Fire-place	C. L. Page	322,962	July 28	2109	561	32	407
Fire-place	G. E. Sharpe	329,224	Oct. 27	2316	600	33	443
Fire-place	I. C. Williams	315,367	Apr. 7	524	134	31	95
Fire-place and chimney	T. C. Natrel	313,441	Mar. 3	567	146	30	882
Fire-place and heating-stove	S. Reeve	330,516	Nov. 17	1468	393	33	800
Fire-place attachment	T. W. Dickinson	321,588	July 7	245	65	32	47
Fire-place heater	T. J. Bartlett	319,172	June 2	268	77	31	1100
Fire-place heater	G. L. Morrison	312,003	Feb. 10	737	201	30	492
Fire-place. Hot-air	D. Pearson	322,634	July 21	1650	436	32	316
Fire-place. Hot-air	D. Pearson	332,429	Dec. 15	1730	453	33	1320
Fire-place. Hot-air	J. Phillips	324,337	Aug. 11	1273	345	32	767
Fire-place niche	J. N. Long	324,710	Aug. 18	1762	492	32	869
Fire-place. Open	I. Hayes	310,277	Jan. 6	154	43	30	30
Fire-place. Open	D. E. Jones	327,396	Sept. 29	2942	768	32	1578
Fire-pot	W. C. Higgins	322,280	July 14	1180	310	32	294
Fire-proof building material	J. C. Kerner	313,501	Mar. 10	642	.....	30	905
Fireproofing and other preservative purposes. Composition for	A. J. Martin	331,312	Dec. 1	74	.....	33	1013
Fireproofing compound	J. T. Greenwood, Jr.	322,280	July 14	1168	.....	32	222
Fireproofing fabrics. Composition for	F. Konrad	319,100	June 2	208	.....	31	1086
Fires. Protecting buildings from	J. G. Merrill	323,518	Aug. 4	178	52	32	555
Fire-screen and desk. Combined	S. K. Darrow	319,198	June 2	319	85	31	1107
Fire-screen and ventilator	A. E. French	328,932	Oct. 27	1885	491	33	366
Fire-shovel	C. M. Burgess	311,160	Jan. 20	1319	362	30	257
Fire-tube boiler	N. W. Pratt	321,248	June 30	3103	825	31	1645
Fires. Automatic sprinkler for extinguishing	J. A. Miller, Jr.	329,585	Nov. 3	220	57, 58	33	547
Fires in grain or malt mills. Mechanism for extinguishing	C. J. Hexamer	331,058	Nov. 24	2149	583, 584	33	938
Fish and method of preparing. Cake of cured	A. B. Bray	326,099	Sept. 15	1167	.....	32	1945
Fish-cutting board	O. Andrews	328,995	Oct. 27	1866	517	33	384
Fish-grapple	E. W. Clark	321,796	July 7	531	140	32	99
Fish-hook	C. Lie	330,793	Nov. 17	1815	469	33	867
Fish-hook	J. G. Weatherly	326,818	Sept. 22	2166	544	32	1434
Fish-hook	R. Wright	319,655	June 9	930	246	31	1228
Fish-hook. Combination	C. L. Spencer	315,967	Apr. 14	1379	357	31	253

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Fish-inclosure.....	W. H. Turner.....	313,458	Mar. 3	587	150	30	886
Fish into layers. Machine for cutting blocks of.....	W. S. Moses and O. Andrews.....	317,469	May 5	735	185	31	656
Fish-line float.....	C. Palm.....	327,100	Sept. 29	2556	666	32	1510
Fish-line stake.....	G. A. Dupuis.....	311,068	Jan. 20	1191	327	30	934
Fish-packing apparatus.....	D. O. Marshall and C. F. York.....	325,102	Aug. 25	2310	636	32	975
Fish-packing apparatus.....	G. P. Rust.....	330,929	Nov. 24	2002	540	33	909
Fish-plate fastening.....	W. S. Grubb.....	317,531	May 12	815	210	31	679
Fish-plate-fastening machine.....	J. H. N. Guilford.....	313,418	Mar. 3	527	138	30	875
Fish-pole holder.....	T. P. Taylor.....	314,751	Mar. 31	2306	613	30	1257
Fish-pond trunk.....	W. S. Mallard.....	325,552	Sept. 1	454	113	32	1102
Fish trap and bucket.....	G. H. McKinney.....	311,346	Jan. 27	1599	437	30	314
Fishing-boat.....	J. McNeal.....	320,134	Sept. 15	1215	310	32	1254
Fishing-gig.....	R. N. Stockton.....	320,603	Sept. 22	2142	557	32	1430
Fishing-line float.....	H. C. Behrens.....	322,088	July 14	930	241	32	178
Fishing-line float.....	W. H. Tufts.....	332,573	Dec. 15	1939	508	33	1356
Fishing-line reel.....	C. V. Roberts.....	322,341	Oct. 13	1078	220	33	205
Fishing-reel.....	J. Kopf.....	318,190	May 19	1685	451	31	850
Fishing-reel.....	H. L. Joslin.....	321,900	July 7	675	175	32	123
Fishing-reel.....	J. Kopf.....	330,985	Nov. 24	2072	561	33	923
Fishing-reel.....	E. F. Trent.....	313,695	Mar. 10	865	230	30	952
Fishing-reel.....	J. Vom Hofe.....	330,811	Nov. 17	1840	496	33	872
Fishing-reel clamp.....	J. Kopf.....	333,232	Dec. 29	2264	748	33	1535
Fishing-rod.....	R. W. Andrews.....	324,450	Aug. 18	1425	389	32	803
Fishing-rod. Bamboo.....	E. M. Edwards.....	330,572	Nov. 17	1534	410	33	813
Fishing-rods. Joint-ferrule for.....	W. H. Reed.....	322,750	July 21	1804	476	32	344
Fishing-rods. Reel-holder and fastening for.....	F. D. Divine.....	331,380	Dec. 1	174	44	33	1029
Fishing-tackle box. Pocket.....	F. C. Wilson.....	324,443	Aug. 18	1417	387	32	801
Fishing-tackle case.....	H. F. Price. (Reissue).....	10,598	May 19	2021	544	31	912
Fishing-tackle line-reel.....	C. H. Briggs.....	325,813	Sept. 8	807	203	32	1170
Flag.....	J. M. Ebersole.....	330,099	Nov. 10	919	238	33	686
Flange connection. Expansion.....	G. A. Karwiese.....	332,906	Dec. 22	2402	635	33	1448
Flanging-machine.....	J. M. Bailey and R. A. Carter.....	322,274	Oct. 13	990	258	33	187
Flanging-machine.....	R. A. Carter.....	313,917	Mar. 17	1910	315	30	1018
Flanging-machine.....	R. A. Carter.....	313,918	Mar. 17	1213	316	30	1018
Flanging-machine.....	S. Fox.....	318,889	May 26	2028	697	31	1029
Flanging-machine.....	M. R. Moore.....	318,785	May 26	2491	665	31	1004
Flanging-machine.....	R. Munroe.....	330,141	Nov. 10	975	254	33	696
Flanging-machine.....	H. W. Shepard.....	314,615	Mar. 31	2130	567	30	1224
Flask:							
See Liquor-flask. Molder's flask.							
Milk or coffee flask.							
Flask-pin.....	S. C. Price.....	315,661	Apr. 14	949	948	31	177
Flax. Tank for curing.....	I. T. Quinn.....	329,949	Nov. 10	714	182	33	645
Flax, &c. Treatment of.....	J. E. Dry.....	314,921	Mar. 31	2564	.....	30	1303
Flies, hooks, &c. Device for holding artificial.....	M. A. Shipley.....	326,794	Sept. 22	2134	555	32	1428
Flies, &c. Implement for catching.....	I. J. Edge.....	322,268	July 14	1154	302	32	219
Flood-gate.....	R. A. Barnes.....	332,039	Dec. 8	1178	308	33	1217
Flood-gate.....	H. T. Day.....	312,437	Feb. 17	1338	369	30	613
Flood-gate.....	W. Donnan.....	321,697	July 7	385	103	32	72
Flood-gate.....	J. A. Galloway.....	329,728	Nov. 3	408	105	33	583
Flood-gate.....	F. M. Monger.....	314,865	Mar. 31	2467	659	30	1291
Flood-gate.....	M. E. Scherer.....	326,922	Sept. 22	2310	605	32	1460
Flood and sluice gate.....	J. S. Brown.....	316,733	Apr. 28	2432	633	31	460
Floor and ceiling.....	C. Butcher.....	328,185	Oct. 13	869	229	33	167
Floor and sidewalk construction.....	P. H. Jackson.....	320,066	June 16	1500	596	31	1338
Floor and surface. Metallic.....	F. R. Cargill and W. V. Kent.....	329,012	Oct. 27	2017	523	33	229
Floor-board clamp.....	A. B. Patten and F. E. Sprague.....	311,020	Jan. 20	1132	309	30	224
Floor-boards. Device for setting.....	F. W. French.....	321,353	June 30	3233	861	31	1671
Floor-clamp.....	C. F. Dearth.....	319,464	June 9	671	160	31	1182
Floor-clamp.....	J. M. Groce.....	322,369	July 14	1287	336	32	244
Floor-clamp.....	T. A. Southwick.....	312,526	Feb. 17	1471	403	30	636
Floor-cloth, &c. Manufacture of.....	G. Schwarzwald.....	332,841	Dec. 22	2301	.....	33	1430
Floor-cloth, water-proof cloth, &c. Figured fabric or material for.....	J. Hebblewaite and E. Holt.....	322,601	July 21	1608	.....	32	308
Floor-cloths, &c., in various colors. Machine for making.....	G. Schwarzwald.....	328,524	Oct. 20	1323	344	33	257
Floor-covering.....	R. Schroeder.....	318,661	May 26	2320	620	31	975
Floor-coverings. Apparatus for uniting wood for.....	H. Belshelm.....	320,616	June 23	2291	605	31	1488
Floor-coverings, &c. Apparatus for uniting wood for.....	C. E. Rider.....	320,696	June 23	2391	632	31	1507
Floor. Fire-proof.....	J. Bossyns.....	319,670	June 9	946	250	31	1231
Floor. Fire-proof.....	W. B. and C. H. Hayden.....	316,361	Apr. 21	1896	501	31	356
Floor. Fire-proof.....	W. W. Hazlett.....	326,735	Sept. 22	2050	534	32	1413
Floor or area covering.....	P. H. Jackson.....	314,677	Mar. 31	2211	587	30	1238
Floor-tube.....	A. G. Stilson.....	317,684	May 12	1014	283	31	715
Floors. Device for preventing drafts beneath.....	W. W. Clay.....	332,491	Dec. 15	1803	474	33	1333
Flooring.....	S. C. Little.....	323,697	Aug. 4	412	118	32	600
Flooring and wainscoting. Wooden.....	A. Green.....	329,228	Nov. 3	548	140	33	607
Flooring-board.....	J. R. Baldwin.....	329,616	Nov. 3	262	68	33	555
Flooring, ceiling, or dado. Wood.....	A. Putney.....	316,175	Apr. 21	1658	434	31	315
Flooring-clamp.....	P. J. Abbott.....	317,959	May 19	1389	373	31	795
Flooring-clamp.....	A. Redman.....	311,608	Feb. 3	199	56	30	386
Flooring-machine.....	J. T. West.....	327,842	Oct. 6	438	114	33	77
Flooring tile. Wood.....	C. E. Rider.....	320,698	June 23	2394	633	31	1508
Flooring. Wood.....	C. E. Rider.....	320,697	June 23	2392	633	31	1508
Flooring, &c. Wooden tongue for joining.....	I. H. Spelman.....	317,223	May 5	413	103	31	599
Flour, &c. Apparatus for feeding.....	A. D. Northrup.....	311,670	Feb. 3	276	76	30	401

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Flour and meal bin	R. Clarke	320,921	June 16	1708	454	31	1375
Flour and meal bin and flour-sifter. Combined	R. E. Williams and W. A. Trammell	328,444	Oct. 13	1229	319	33	333
Flour-bin	E. A. Powell	322,935	July 28	2113	562	32	408
Flour-bolt	J. B. Allfree	313,152	Mar. 3	152	37, 38	30	805
Flour-bolt	J. F. Ayres	310,772	Jan. 13	786	212	30	155
Flour-bolt	W. F. Cochran and G. T. Smith	311,873	Feb. 10	541	148	30	457
Flour-bolt	J. C. Frazier	310,572	Jan. 13	530	145	30	107
Flour-bolt	G. Halliday	325,833	Sept. 8	831	208	32	1175
Flour-bolt	N. W. Holt. (Reissue)	10,617	June 30	3317	884	31	1686
Flour-bolt	J. Koelner	324,029	Aug. 11	839	232	32	687
Flour-bolt	B. Kniffier	328,789	Oct. 20	1680	437	33	332
Flour-bolt	G. T. Smith and W. F. Cochran	312,914	Feb. 24	1974	530	30	737
Flour-bolt	B. W. Tuttle	331,265	Nov. 24	2463	604	33	993
Flour-bolt attachment	J. M. R. Kennedy	314,137	Mar. 17	1498	391	30	1071
Flour-bolt. Centrifugal	A. Heine	316,968	May 5	50	13	31	532
Flour-bolt. Centrifugal	C. E. Moyer	313,758	Mar. 10	979	252	30	968
Flour-bolt conveyor	M. W. Clark	319,786	June 9	1104	293	31	1258
Flour-bolt reel	V. Teague	324,187	Aug. 11	1058	290	32	727
Flour-bolt. Upright centrifugal	L. Gathmann	319,695	June 9	976	259	31	1237
Flour-bolts and middlings-purifiers. Conveyor for	F. J. Schupp	320,707	June 23	2403	636	31	1510
Flour-bolts. Mechanism for brushing	M. Harmon	310,778	Apr. 28	2469	650	31	470
Flour-bolting machine	M. Martin	315,308	Apr. 7	449	113	31	82
Flour-bolting machines. Brush for	J. B. Richards	316,179	Apr. 21	1663	436	31	315
Flour box and sifter. Combined	W. C. Marr	324,859	Aug. 25	1990	547	32	916
Flour-chest	D. Shuler	324,419	Aug. 18	1389	378	32	797
Flour-chest. Ventilated	M. Wrightsman	316,593	Apr. 28	2218	583	31	421
Flour-dressing machine	W. H. Williams	326,893	Sept. 22	2274	595	32	1453
Flour. Making sweet-potato	J. A. Whitcomb	310,937	Jan. 20	966		30	196
Flour-mill roller	J. Pauly	321,241	June 30	3095	822	31	1644
Flour-mills. Disintegrating apparatus for	A. C. Nagel, R. H. Kaemp, and A. W. F. G. Linnenbrügge	312,215	Feb. 10	1034	283	30	547
Flour-packer	H. P. Chapman	311,811	Feb. 3	450	122	30	433
Flour-packer	L. Creveling	310,496	Jan. 6	423	117	30	82
Flour-packers. Friction attachment for	C. F. Walters	320,419	June 16	2024	531	31	1430
Flour-purifier	S. Spitzer	329,498	Nov. 3	99	26	33	524
Flour-testing apparatus	K. W. Kunis	328,494	Oct. 20	1285	334	33	249
Flouring-mill feeder	E. M. Smith and C. H. Heck	333,351	Dec. 29	8025	790	33	1565
Flouring-mill rolls. Adjusting device for	I. H. Eisenberg	322,432	July 21	1374	359	32	967
Flower. Artificial	R. Georgi	322,367	July 14	1286	336	32	244
Flower-frame	S. A. Elliott	328,926	Oct. 27	1874	480	33	364
Flower-pot	O. Kaiser	314,622	Mar. 31	2218	589	30	1240
Flower-pot	S. J. Rhoads	320,588	June 23	2254	596	31	1428
Flower-pot holder. Wire	W. J. Hesser	313,667	Mar. 10	855	222	30	946
Flower-pot shelf	R. W. Perry	322,525	Aug. 4	187	54, 55	32	537
Flower-pot stand	A. H. Perkins	312,150	Feb. 10	958	261	30	533
Flower-stand	R. H. F. Behrens	318,593	May 26	2236	598	31	958
Flower-stand	R. H. F. Behrens	318,553	May 26	2361	687	31	1020
Flower-stand	N. E. Burch	324,079	Aug. 11	910	252	32	699
Flower-stand	P. J. Cunningham	317,443	May 5	703	177	31	650
Flower-stand	A. Iske	323,690	Aug. 4	404	116	32	598
Flower-stand. Folding	M. E. Stephenson	319,339	June 2	494	133	31	1148
Flower-stand. Revolving	H. Mecke	325,850	Sept. 8	850	213	32	1178
Flue-cleaner	W. Butcher	311,408	Jan. 27	1682	459	30	330
Flue-cleaner	L. Duenisch	331,691	Dec. 1	673	166	33	1117
Flue-cleaner	J. A. Hurley	329,045	Oct. 27	2066	536	33	397
Flue-cleaner	F. L. McGahan	313,509	Mar. 10	651	169	30	907
Flue-stop	G. Booth	324,216	Aug. 11	1113	301	32	757
Flue-stop	W. McArthur	327,573	Oct. 6	93	20	31	17
Flue-welding device	J. Rademacher and R. A. Lemon	312,895	Feb. 24	1951	534	30	733
Flue-welding machine	B. F. Lowther	330,844	Nov. 17	1881	508	33	879
Flues of boilers. Baffle-plate for	R. Gosling	324,532	Aug. 18	1556	429	32	827
Fluid and detecting waste. Registering the flow of	J. C. Ayer	318,927	May 19	1738	465	31	860
Fluid-cooler	N. S. Valentine	322,081	July 14	922	238	32	176
Fluid diaphragm-meter	R. Deuel	327,388	Sept. 29	2033	765	33	1577
Fluid-meter	C. C. Barton and J. Thomson	313,159	Mar. 3	105	40, 41	30	807
Fluid-meter. Diaphragm	J. Thomson	318,327	May 19	1872	503	31	884
Fluid-meter. Rotary	J. A. Tilden	324,503	Aug. 18	1496	409	32	815
Fluid piston-meter	H. M. Bartlett	333,099	Dec. 29	2675	701	33	1508
Fluid regulator and cut-off	J. T. Hamby	311,747	Feb. 3	372	102	30	418
Fluids. Apparatus for propelling	H. Thiéry	314,489	Mar. 24	1968	524	30	1168
Fluids. Apparatus for the conveyance of	J. F. Bennett	312,318	Feb. 17	1181	323	30	583
Flume-rack cleaner	V. H. and G. T. Crisman	332,790	Dec. 22	2241	591	33	1419
Flush tank. Automatic	A. Rosewater	330,352	Nov. 10	1241	331	33	750
Flushing apparatus. Automatic	B. J. Healy	316,966	May 5	48	19	31	531
Flushing tanks. Mechanism for	G. C. Phillips	315,063	Apr. 7	109	25	31	21
Flushing tanks, sinks, &c. Device for	A. Rosewater	320,398	June 10	1998	526	31	1426
Fluxes. Manufacturing	H. F. Taylor and G. Leyshon	332,458	Dec. 15	1762		33	1326
Fly-book	C. G. Levison	333,239	Dec. 29	2673	751	33	1537
Fly-book for anglers	M. Bray	333,384	Dec. 29	3063	709	33	1572
Fly-trap	G. W. W. Edson	325,163	Aug. 25	2383	656	32	988
Fly-trap	P. D. Horton	331,437	July 7	29	8	32	8
Fodder-binder	C. E. Moles	332,619	Dec. 15	1998	524	33	1367
Fodder from residual products of distilleries and breweries. Process of and apparatus for producing	H. Hencke	316,145	Apr. 21	1621	424	31	507
Folding apparatus	L. C. Crowell	331,281	Dec. 1	26	6, 7	33	1005
Folding box	R. W. Brumby and S. Clarke	332,486	Dec. 15	1798	472	33	1332

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Folding box.....	G. L. Jaeger.....	317,795	May 12	1160	307	31	743
Folding box.....	R. S. Merrill.....	325,755	Sept. 8	731	182	32	1157
Folding box.....	R. S. Merrill.....	325,757	Sept. 8	731	183	32	1157
Folding box.....	R. S. Merrill.....	326,577	Sept. 22	1797	471	32	1369
Folding chair.....	P. P. Achenbach.....	333,273	Dec. 29	2923	765	33	1547
Folding chair.....	J. Briggs.....	328,181	Oct. 13	878	228	33	166
Folding chair.....	E. L. Gaylord.....	330,222	Nov. 10	1071	280 281	33	717
Folding chair.....	E. L. Gaylord.....	330,223	Nov. 10	1072	281 282	33	717
Folding chair.....	E. L. Gaylord.....	330,224	Nov. 10	1074	282	33	717
Folding chair.....	E. L. Gaylord.....	330,225	Nov. 10	1075	283	33	718
Folding chair.....	C. H. Hall and J. E. Tripp.....	330,231	Nov. 10	1081	285 286	33	719
Folding chair.....	S. C. Hopkins.....	326,564	Sept. 22	1782	467	32	1367
Folding chair.....	A. Horn and H. Gundlach.....	332,342	Dec. 15	1607	422	33	1300
Folding chair.....	W. Lindsay.....	328,322	Oct. 13	1048	271	33	188
Folding chair.....	J. C. Merritt and L. A. C. Müller.....	317,402	May 5	637	163	31	639
Folding chair.....	J. Pierco.....	327,105	Sept. 29	2560	667	32	1511
Folding chair.....	E. L. Prall and A. Williams.....	332,740	Dec. 22	2194	579	33	1410
Folding chair.....	R. Shelley.....	327,901	Oct. 6	509	132	33	91
Folding chair.....	L. K. Snodce.....	313,381	Mar. 3	479	125	30	866
Folding chair.....	G. E. Vandenburg.....	315,680	Apr. 14	974	253	31	182
Folding chair or settee.....	H. J. Harwood.....	315,617	Apr. 14	898	235	31	167
Folding chair or settee.....	H. J. Harwood.....	330,698	Nov. 17	1693	457	33	845
Folding gate and window-guard.....	C. M. Dissoway.....	330,966	Nov. 24	2049	554	33	918
Folding-guide.....	A. P. Barber, Jr.....	331,032	Nov. 24	2112	572	33	931
Folding-machine.....	L. C. Crowell.....	316,132	Apr. 21	1501	415	31	302
Folding-machine.....	L. C. Crowell.....	331,280	Dec. 1	18	5, 6	33	1004
Folding-machine.....	J. C. Kneeland.....	326,125	Sept. 15	1198	306	32	1250
Folding-machine.....	J. G. Northrup.....	322,552	July 21	1539	406 407	32	296
Folding-machine carrier attachment.....	R. T. Brown.....	331,782	Dec. 8	779	197	33	1145
Folding-machine, Rotary.....	A. Campbell.....	321,684	July 7	369	98, 99	32	69
Folding-machine sheet-conveyer.....	R. T. Brown.....	322,344	July 14	1254	328	32	238
Folding stand or table.....	W. P. Roberts.....	318,298	May 19	1825	429	31	877
Folding table.....	G. H. Allen.....	320,560	Sept. 15	1398	364	32	1287
Folding table.....	J. Benedict.....	310,245	Jan. 6	105	29	30	22
Folding table.....	J. Danner.....	317,097	May 5	220	56	31	563
Folding table.....	N. N. Gordon.....	316,142	Apr. 21	1618	423	31	307
Folding table.....	J. C. Melhaffey.....	318,779	May 26	2478	604	31	1003
Folding table.....	J. W. Stowell.....	313,632	Mar. 10	86	211	30	936
Folding table.....	O. A. Thayer.....	320,413	June 16	2017	529	31	1429
Folding table.....	E. Tucker.....	312,039	Feb. 10	783	214	30	501
Folding table.....	H. S. Webster.....	322,990	Oct. 27	1979	514	33	352
Folding table and ironing-board support. Adjustable.....	H. P. Schneek.....	315,665	Apr. 14	933	250	31	178
Folding table and seat.....	A. Neutacher.....	322,246	Oct. 13	957	249	33	182
Folding table, Portable.....	J. Linsley and J. A. Baldwin.....	319,915	June 9	1289	340	31	1292
Food compound.....	A. A. De Puy.....	331,775	Dec. 8	794	.....	33	1147
Food for calves.....	S. Sanborn.....	317,021	May 5	120	.....	31	544
Food for infants and invalids.....	W. R. Barker and A. L. Savory.....	313,157	Mar. 3	160	.....	30	806
Food for poultry. Preparing.....	S. S. Myers.....	321,909	July 7	684	.....	32	124
Food product.....	H. Lorch.....	318,764	May 26	2460	.....	31	1000
Foot-boat.....	S. Hagen.....	319,242	June 2	374	100	31	1118
Foot-rest.....	J. S. Clark.....	322,792	July 21	1854	492	32	354
Foot-rest, Adjustable.....	O. M. Moore.....	360,343	Nov. 10	1222	337	33	747
Foot-rest, Adjustable and reversible.....	H. H. Daingerfield.....	317,978	May 19	1412	379	31	800
Foot-warmer.....	M. E. Boyd.....	311,283	Jan. 27	1514	413	30	299
Foot-warmer.....	H. Sack.....	325,116	Aug. 25	2327	640	32	978
Foot-warmer and heater. Combined.....	E. B. Elrod.....	316,252	Apr. 21	1754	461	31	331
Foot-wear made of combined textile and felting material. Manufacturing.....	A. A. Hawley.....	322,285	July 14	1175	308	32	224
Forceps for applying rubber-dam clamps.....	F. A. Brewer and W. S. How.....	315,706	Apr. 14	1006	265	31	189
Forge.....	J. L. Osgood.....	311,358	Jan. 27	1615	442	30	317
Forge.....	H. W. Ransom.....	328,588	Sept. 22	1811	476	32	1372
Forge, Portable.....	A. König.....	318,629	May 26	2276	607 608	31	966
Forges, Adjustable leg for.....	J. F. Winchell.....	326,006	Sept. 8	1042	265	32	1214
Forges, Detachable lever for.....	J. F. Winchell. (Reissue).....	10,593	May 5	735	181	31	650
Forging bolt-blanks. Machine for.....	J. Brudner and O. C. Burdick.....	310,646	Jan. 13	621	172	30	124
Forging bolt-blanks. Machine for.....	H. J. Johnson.....	330,901	Nov. 24	1957	530	33	901
Forging blacksmiths' tongs. Die for.....	F. T. Smith.....	326,797	Sept. 22	2136	556	32	1429
Forging car-axles and other metal articles. Machine for.....	G. F. Simonds.....	319,752	June 9	1053	278 279	31	1251
Forging-dies.....	H. P. Phipps.....	327,300	Sept. 29	2821	736	32	1558
Forging-machine.....	H. Hammond.....	322,928	July 28	2058	544 545 546 547 548	32	397
Forging-machine.....	H. Hammond.....	322,929	July 28	2060	546 547 548	32	398
Forging-machine.....	H. Hammond.....	322,930	July 28	2062	548 549	32	398
Forging-machine.....	H. St. Lawrence.....	333,486	Dec. 29	3201	837	33	1594
Forging-machine, Hydraulic.....	C. Davy.....	332,594	Dec. 15	1964	514 515	33	1301
Forging machine, Nut.....	F. A. Hasenclever.....	310,620	Jan. 13	667	183	30	133
Forging-machine, Radial.....	J. C. Richardson.....	330,262	Nov. 10	1118	297 298	33	727
Forging metal articles circular in cross-section. Die for.....	G. F. Simonds.....	319,754	June 9	1055	280	31	1251
Forging metal bars.....	G. F. Simonds.....	319,755	June 9	1056	280	31	1252

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Forging-plant.....	W. Hainsworth.....	317,767	May 12	1117	{ 294 295 }	{ 31	735
Fork:							
See Agricultural fork.	Manure-fork.						
Carving-fork.	Potato or manure fork.						
Grappling-fork.	Stone and potato fork.						
Hay-fork.	Table-fork.						
Hay and manure fork.	Tedder-fork.						
Hay-stacker fork.	Tuning-fork.						
Fork.....	T. Coyle.....	316,334	Apr. 21	1859	492	31	350
Fork.....	W. H. Withington.....	394,908	Aug. 25	2060	{ 563 564 }	{ 32	998
Fork for digging vegetables.....	J. A. Ervien.....	316,347	Apr. 21	1876	496	31	352
Fork-forming machine.....	P. D. Dupont.....	312,984	Feb. 24	2066	564	30	754
Fork-guard.....	J. W. Drew.....	330,924	Nov. 17	1853	500	33	754
Fork guard and rest.....	E. E. Wood, Jr.....	318,070	May 19	1537	412	31	821
Fork-pointing machine.....	P. D. Dupont.....	315,395	Apr. 7	565	146	31	102
Fork-prong-rolling machine.....	P. D. Dupont.....	315,396	Apr. 7	567	146	31	102
Forks. Apparatus for working derrick.	C. Stone.....	328,530	Oct. 20	1333	346	33	258
Form for displaying dress-goods, &c.....	A. A. Murphy.....	322,196	July 14	1072	278	32	304
Fortification. Revolving-tower.....	T. R. Timby.....	330,640	Nov. 17	1614	{ 432 433 }	{ 32	829
Fortifications. Revolving-tower system of.....	T. R. Timby.....	330,638	Nov. 17	1612	431	33	829
Fortifications. Revolving-tower system of.....	T. R. Timby.....	330,641	Nov. 17	1615	434	33	830
Fortifications. Revolving-tower system of.....	T. R. Timby.....	330,642	Nov. 17	1616	435	33	830
Fortifications. Shield and tower system of.....	T. R. Timby.....	330,639	Nov. 17	1613	{ 431 432 }	{ 33	829
Foundry-plant.....	J. H. Whiting.....	314,768	Mar. 31	2357	{ 623 624 }	{ 30	1266
Foundryman's clamp.....	T. Harding.....	321,612	July 7	548	144	32	102
Fountain:							
See Drinking-fountain.	Sirup-fountain.						
Fountain. Floating apparatus for producing illuminated	E. N. Gaillard.....	327,673	Oct. 6	237	58	33	42
Fountains. Floating apparatus for producing illuminated	F. J. Bolton.....	312,958	Feb. 24	2029	554	30	747
Fowls. Perch for.....	J. G. Staunton.....	322,076	July 14	915	237	32	175
Fracture apparatus.....	A. J. Remsberg.....	320,266	June 16	1805	479	31	1301
Frame:							
See Awning-frame.	Sewing-machine quilting-frame.						
Bag, pocket-book, or purse frame.	Slate-frame.						
Bed-frame.	Spectacle and eyeglass frame.						
Bed-screen frame.	Spinning-frame.						
Clock-frame.	Stacking-frame.						
Clothes-line frame.	Steam-engine frame.						
Display-frame.	Stretching-frame.						
Drawing-frame.	Transparency-frame.						
Flower-frame.	Umbrella and parasol frame.						
Grindstone-frame.	Window-frame.						
Hammock-frame.	Window-screen frame.						
Net-frame.	Wire frame.						
Picture-frame.							
Quilting-frame.							
Roving-frame.							
Fresco-work.....	E. S. Miragoli.....	311,509	Feb. 3	67	20	30	361
Freezing cream, &c. Machine for.....	A. W. Marshall.....	320,572	June 23	2224	590	31	1476
Freezing liquids. Apparatus for.....	E. Fixary.....	330,984	Nov. 24	1937	525	33	897
Freezing-machine. Absorption.....	R. Habermann.....	321,985	July 14	763	190	32	147
Friction-coupling.....	J. C. Blevney.....	310,173	Jan. 6	15	5	30	6
Friction-coupling.....	H. E. Eberhardt.....	311,179	Jan. 27	1356	{ 371 372 }	{ 30	270
Friction-drum.....	W. J. Carlin.....	315,239	Apr. 7	364	89	31	66
Friction-slide.....	C. F. Oxley.....	313,444	Mar. 3	569	147	30	823
Fringe-reel.....	C. Rothengatter.....	321,454	July 7	62	18	32	14
Fruit and nut gatherer.....	G. W. Hogan.....	310,429	Jan. 6	344	94	30	67
Fruit-bleaching apparatus.....	A. W. Miller, W. Bower, and A. W. Coleman.....	321,741	July 7	442	117	32	82
Fruit-box. Knockdown.....	S. T. Jenkins.....	318,937	May 26	2689	712	31	1040
Fruit-cutter.....	H. M. Morrison.....	317,563	May 12	854	219	31	686
Fruit-drier.....	A. Blatchly and A. J. Hatch.....	325,782	Sept. 8	764	191	32	1163
Fruit-drier.....	M. E. Clark.....	331,768	Dec. 8	785	199	33	1146
Fruit-drier.....	J. H. Collins.....	322,462	Oct. 20	1251	325	33	244
Fruit-drier.....	S. Collins.....	318,543	May 26	2180	563	31	948
Fruit-drier.....	P. D. and J. H. Coryell.....	313,810	Mar. 10	1049	289	30	280
Fruit-drier.....	S. Deau.....	332,595	Dec. 15	1968	515	33	1361
Fruit-drier.....	J. R. Dew.....	320,543	June 23	2191	578	31	1469
Fruit-drier.....	J. R. Dew.....	332,596	Dec. 15	1969	515	33	1361
Fruit-drier.....	A. J. Dodge.....	331,392	Dec. 1	176	45	33	1029
Fruit-drier.....	J. C. Gunn.....	331,294	Dec. 1	54	13	31	1009
Fruit-drier.....	J. G. McNaughton.....	327,006	Sept. 29	2422	633	32	1428
Fruit-drier.....	M. B. Miller.....	320,883	June 23	2619	694	31	1552
Fruit-drier.....	S. L. Miller.....	316,637	Apr. 28	2270	597	31	431
Fruit-drier.....	L. W. Parsons.....	321,135	June 30	2662	785	31	1619
Fruit-drier.....	M. Reynolds, Jr.....	331,548	Dec. 1	412	110	33	1073
Fruit-drier.....	C. P. Rogers and L. Allen.....	325,360	Sept. 1	170	46	32	1047
Fruit-drier.....	B. L. Ryder.....	320,399	June 16	2000	{ 526 527 }	{ 31	1427
Fruit-drier.....	N. G. Williams.....	323,008	July 28	2176	{ 577 578 }	{ 32	419
Fruit-drier.....	J. J. Wolfe.....	333,435	Dec. 29	3181	818	33	1524
Fruit-drier.....	D. A. Wright.....	325,777	Sept. 8	758	190	32	1162
Fruit-drier. Steam.....	M. M. Burchfield.....	323,781	Aug. 4	518	146	32	620
Fruit-drying tray.....	S. E. and J. M. Sprout.....	318,436	May 19	2016	543	31	911

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Fruit-gatherer	P. and J. W. Hutcherson	394,326	Aug. 11	1258	341	32	765
Fruit-gatherer	J. Stonebraker	399,085	Oct. 27	2135	552	33	409
Fruit-jar	S. R. Barhite	361,372	June 30	3134	835	31	1651
Fruit-jar	H. L. Becker	367,853	Oct. 6	448	117	33	79
Fruit-jar	J. G. Briggs	314,099	Mar. 17	1442	378	30	1062
Fruit-jar	M. R. Gannaway	314,289	Mar. 24	1693	451	30	1117
Fruit-jar	S. L. Loomis	318,483	May 26	2074	560	31	931
Fruit-jar	W. C. Moody	324,036	Aug. 11	847	236	32	689
Fruit-jar	C. Newman	320,380	June 23	2239	593	31	1479
Fruit-jar	E. A. Taylor	325,877	Sept. 8	822	222	32	1185
Fruit-jar	A. V. Whiteman	320,107	June 16	1561	412	31	1348
Fruit-jar	A. F. Wilson	319,768	June 9	1075	226	31	1254
Fruit-jar	J. B. Wilson	312,595	Feb. 17	1560	425	30	654
Fruit-jar	J. B. Wilson	312,596	Feb. 17	1561	425	30	655
Fruit-jar cap	C. H. Fry, Jr.	326,492	Sept. 15	1685	440	32	1341
Fruit-jar cap	C. G. Imlay	321,220	June 30	3070	814	31	1640
Fruit-jar cover	J. Gilberda	328,115	Oct. 13	794	207	33	150
Fruit-jar fastener	J. C. Baldwin	321,473	July 7	92	25	32	19
Fruit-jar fastener	J. H. Cassidy	326,025	Sept. 22	1872	490	32	1381
Fruit-jar fastening	C. F. Eisler	326,416	Sept. 15	1597	415	32	1324
Fruit-jar fastening. Wire	W. F. Hannes	314,332	Mar. 24	1752	467	30	1128
Fruit-jar top	E. B. Repp and G. H. Brown	318,029	May 19	1483	398	31	812
Fruit-jars. Machine for holding and handling	B. F. Jones	312,442	Feb. 24	1618	445	30	674
Fruit. Machine for cleaning and brightening dried	J. F. Walsh	321,000	July 28	2104	574	32	417
Fruit-picker	J. Brown and M. G. Alcorn	312,326	Feb. 17	1191	326	30	585
Fruit-picker	E. Kimball	325,546	Sept. 1	446	111	32	1101
Fruit-picking stand. Adjustable	T. Elliott	317,325	May 5	543	138	31	622
Frying-pan	H. F. Bock	310,365	Jan. 6	275	76	30	53
Frying-pan	J. O. Drake	324,671	Aug. 18	1732	477	32	839
Frying-pan	J. Mason and G. W. Winsor	310,864	Jan. 13	896	242	30	175
Fuel and air. Apparatus for mixing liquid	J. W. and F. R. Hoard	326,981	Sept. 29	2390	625 626	32	1482
Fuel and illuminating-gas. Apparatus for the man- ufacture of vaporous and gaseous	R. B. Avery	317,611	May 12	923	236 237	31	690
Fuel and making the same. Artificial	W. H. Cory	332,497	Dec. 15	1810		33	1335
Fuel and making the same. Carbonaceous	W. H. Cory	332,498	Dec. 15	1811		33	1335
Fuel and other granulated materials. Machine for mixing and molding artificial	E. F. Lolseau	311,341	Jan. 27	1593	436 437	30	313
Fuel. Artificial	H. Aigner	314,097	Mar. 17	1441	377	30	1062
Fuel. Artificial	G. Leder	313,086	Mar. 3	61		30	789
Fuel. Composition	L. Cline	330,000	Nov. 10	783		33	658
Fuel. Composition for	C. H. Sternberg	316,460	Apr. 28	2200		31	418
Fuel-converter and gas-engine. Combined	L. H. Nash	322,062	July 14	896	232	32	171
Fuel. Feeding fine	W. Westlake	327,810	Sept. 29	2697	701	32	1537
Fulling-mills, &c. Cloth-guide for	T. Kiteon	329,457	Nov. 3	36	10	33	511
Fumigator	H. Perlich	315,330	Apr. 7	473	190	31	86
Funnel	P. C. Stadler	320,716	June 23	2413	640	31	1512
Funnel. Self-closing	J. Jochum	326,566	Sept. 22	1783	468	32	1367
Funnel. Ventilating measure	L. Bolus and P. Ellsperman	313,049	Mar. 3	15	4	30	781
Fur-blowing machines. Bearing for	R. A. Belden	331,181	Nov. 24	2333	631 632	33	970
Fur-case	F. W. Heinig	328,673	Oct. 20	1544	402	33	295
Fur-seal and other skins. Removing stagy hairs from	A. Paterson	331,638	Dec. 1	399	107	33	1070
Furs. Manufacture of	H. Fustier	327,543	Oct. 6	55	12	33	11
Furnace:							
See Blast-furnace.	Muffle-furnace.						
Boiler-furnace.	Open-hearth furnace.						
Calcining and chloridizing furnace.	Ore-roasting furnace.						
Cremation-furnace.	Ore roasting and smelting furnace.						
Crucible-furnace.	Portable furnace.						
Cupola-furnace.	Puddling-furnace.						
Fire furnace.	Puddling and heating furnace.						
Gas-furnace.	Regenerative furnace.						
Gas-generating retort-furnace.	Regenerator-furnace.						
Glass-furnace.	Retort-furnace.						
Glass-annealing furnace.	Revolving furnace.						
Glass annealing and flattening furnace.	Roasting-furnace.						
Glass-melting furnace.	Skeleton furnace.						
Hot-air furnace.	Smelting-furnace.						
House-furnace.	Smoke-consuming furnace.						
Locomotive-furnace.	Smoke-preventing furnace.						
Melting-furnace.	Steam-generator furnace.						
Metal-heating furnace.	Steel-ladle-drying furnace.						
Metallurgic gas-furnace.	Straw-burning furnace.						
Metallurgical furnace.	Tinner's portable furnace.						
Metallurgical furnace.	Tire-heating furnace.						
Furnace	E. Boileau	329,997	Nov. 10	790	200	33	657
Furnace	J. W. Brightman	318,690	May 26	2358	629 630	31	981
Furnace	J. F. Coignet	315,478	Apr. 14	696	182	31	129
Furnace	P. V. Dwyer	330,969	Nov. 24	2052	555	33	919
Furnace	G. Gulickson	310,582	Jan. 13	545	150	30	110
Furnace	E. Gurney and C. Sellers	324,315	Aug. 11	1244	338	32	762
Furnace	J. Hill	325,175	Aug. 25	2406	661	32	992
Furnace	M. Kearney and M. C. Hawley	313,939	Mar. 17	1246	324	30	1024
Furnace	W. Kent	320,563	June 23	2214	526	31	1474
Furnace	T. Murphy	316,642	Apr. 28	2276	599	31	432

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr't.	Vol.	Page.
Furnace	J. Neville	321,519	July 7	158	42	32	31
Furnace	J. A. Price	331,731	Dec. 1	733	184	33	1127
Furnace	J. Reuleaux	317,252	May 12	1237	327	31	758
Furnace	J. A. Toppliff, E. S. Cross, W. S. Cox, and J. A. McCollum. }	330,940	Nov. 24	2015	544	32	912
Furnace	C. H. Van Benschoten	322,215	July 14	1095	2-4	32	208
Furnace	R. M. Weir	315,867	Apr. 14	1234	322	31	230
Furnace	W. Westlake	331,597	Dec. 1	531	129	33	1091
Furnace ash-pan and screen	R. S. T. Cissel	312,331	Feb. 17	1196	328	30	586
Furnace-door	H. H. Dreyer	316,884	Apr. 28	2636	687	31	496
Furnace-door	D. M. Maxon	328,955	Oct. 27	1919	501	33	371
Furnace-door	W. O. Nightengale	312,578	Feb. 17	1736	419	30	650
Furnace-door arch	R. R. Zell	322,883	July 21	1994	527	32	379
Furnace-doors. Device for opening and closing	H. H. Dreyer	313,304	Mar. 3	389	96	30	847
Furnace fire-door	J. W. Baker	329,693	Nov. 3	360	92	33	573
Furnace for annealing metals	E. M. Herr and G. W. Cummins	319,713	June 9	1003	265	31	1342
Furnace for burning gaseous fuel	E. A. Uehling	318,328	May 19	1876	503	31	885
Furnace for burning liquid and gaseous fuel	D. H. Burrell	394,005	Aug. 11	806	224	32	661
Furnace for burning liquid hydrocarbons	J. Buffet	313,403	Mar. 3	510	133	30	872
Furnace for heating disks	A. McDonald	310,902	Jan. 20	949	250	30	190
Furnace for manufacturing iron and steel	J. Henderson	312,632	Feb. 24	1603	439	30	671
Furnace for melting glass, &c.	E. Pearson and J. Kitson	330,050	Nov. 10	848	219	33	672
Furnace for night-soil	A. Engle	315,397	Apr. 7	569	147	31	102
Furnace for preparing artificial fuel	V. Biérix	319,180	June 2	297	70	31	1103
Furnace for roasting copper and other ores	C. A. Bartsch	316,723	Apr. 28	2413	628	31	457
Furnace for reducing zinc and other metals	J. Quaglio	312,759	Feb. 24	1774	480	30	702
Furnace for the combustion of bituminous coal	N. W. Pratt and G. E. Palmer	312,655	Feb. 24	1632	450	30	677
Furnace for the combustion of liquid fuel	J. H. Selwyn	326,161	Sept. 15	1253	321	32	1280
Furnace for the manufacture of iron direct from the ore	C. Adams	310,164	Jan. 6	2	1	30	3
Furnace for the manufacture of sponge, wrought, and steely iron direct from the ore	C. J. Eames	318,608	May 26	2252	602	31	961
Furnace for the manufacture of zinc-white	S. C. West	328,097	Oct. 13	771	201	33	146
Furnace-front	W. Lowe	310,935	Jan. 13	860	233	30	109
Furnace-grate	G. W. Blackburn and W. F. Cordray	325,651	Sept. 8	580	147	32	1130
Furnace-grate	J. W. Brightman	318,862	May 26	2661	690	31	1023
Furnace-grate	S. E. Burke	323,290	July 28	2563	668	32	491
Furnace-grate	R. S. T. Cissel	323,112	July 28	2523	615	32	446
Furnace-grate	F. E. Culver	321,951	July 14	748	195	32	144
Furnace-grate	J. M. Duncan	321,890	July 7	660	171	32	120
Furnace-grate	S. D. Fisher	311,971	Feb. 10	636	191	30	484
Furnace-grate	G. Gulickson	318,467	May 26	2054	555	31	927
Furnace-grate	S. H. Huntington	326,285	Sept. 15	1448	377	32	1297
Furnace-grate	C. Martin	326,309	Sept. 15	1470	382	32	1301
Furnace-grate	F. V. Medynski	310,215	Jan. 6	71	19	30	15
Furnace-grate	F. Minlor	330,008	Nov. 17	1576	422	33	821
Furnace-grate	L. Passmore	317,184	May 5	345	87	31	586
Furnace-grate	J. A. Price	312,293	Feb. 17	1151	314	30	577
Furnace-grate	J. Smead	324,421	Aug. 18	1392	379	32	797
Furnace-grate	J. Storer	324,966	Aug. 25	2132	563	32	942
Furnace-grate bar	J. Burrell	317,439	May 5	699	176	31	649
Furnace grate-bar attachment	M. A. Foster	310,194	Jan. 6	46	13	30	11
Furnace grate. Boiler	C. H. Holt	312,472	Feb. 17	1392	384	30	622
Furnace. Liquid-fuel	C. M. Gearing	316,890	Apr. 28	2645	690	31	499
Furnace. Liquid-fuel	L. Nobel	321,840	July 7	595	154	32	109
Furnace-roof	J. H. Flagler	325,403	Sept. 1	254	63, 64	32	1064
Furnaces. Air-blast mechanism for	T. J. Fennell	325,330	Sept. 1	134	37	32	1040
Furnaces and forges. Air-injector for	J. B. Davis and W. Walker	323,644	Aug. 4	345	96	32	546
Furnaces. Apparatus for applying liquid fuel to blast	F. C. Weber	325,292	Sept. 1	83	25	32	1032
Furnaces. Apparatus for charging blast and other shaft	C. S. Hurd	329,044	Oct. 27	2062	535	33	396
Furnaces. Apparatus for firing	C. Holland, Jr.	331,197	Nov. 24	2357	637	33	975
Furnaces. Ash-receptacle for	E. W. Visger	323,986	Aug. 11	783	218	32	678
Furnaces. Device for burning gas in	J. Ashcroft	332,223	Dec. 15	1447	375	33	1271
Furnaces. Device for feeding air to	W. Thomas	315,187	Apr. 7	295	70	31	13
Furnaces. Feeding air to	E. A. Hanna	329,735	Nov. 3	417	107	33	584
Furnaces. Feeding air to	W. Wright	320,903	June 23	2651	704	31	1557
Furnaces. Feeding coal to	R. W. O. Rehmenkian	333,337	Dec. 29	3008	787	33	1563
Furnaces. Filling	P. L. Weimer and H. T. Euston	326,181	Sept. 15	1285	332	32	1966
Furnaces. Fire-door casing for	J. R. McElligott	325,105	Aug. 25	2313	637	32	976
Furnaces. Fuel-injector for	H. Mason	321,736	July 7	432	115	32	81
Furnaces. Hearth and lining of graphite for metal-burgie	C. J. Eames	318,554	May 26	2183	580	31	950
Furnaces. Hot-air feeder for	J. W. Loveridge	319,828	June 9	1169	309	31	1271
Furnaces. Junction or separator lining for open-hearth	O. Murisier and P. C. Gilchrist	322,937	Nov. 10	696	...	33	649
Furnaces of locomotive-boilers. Supplying air to the	T. C. Craven	311,475	Feb. 3	17	5, 6	30	351
Furnaces. Regulator for controlling combustion in	S. Draggins	318,688	May 26	2354	629	31	961
Furnaces. Regulator for gas and air supply to	G. Westinghouse, Jr.	318,839	May 26	2506	682	31	1016
Furnaces. Steam and air injector for	F. E. Fahrig	314,925	Mar. 31	2508	679	30	1303
Furnaces. Steam and air injector for	W. Mathews	326,232	Sept. 15	1353	350	32	1278
Furniture	F. H. Conant	317,732	May 12	1069	240	31	726
Furniture	H. L. Goodwin	326,730	Sept. 22	2044	532	32	1412
Furniture. Attachment for articles of	W. F. Davis	325,737	Sept. 8	706	176	32	1152

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Furniture. Combined article of	J. C. Pringle and J. W. Holdsworth.	313,768	Mar. 10	994	257	30	971
Furniture. Envelope for packing	J. T. Mygatt	315,435	Apr. 7	627	162	31	112
Furniture. Fan attachment for rocking	W. Dunkerly	326,727	Sept. 22	2041	531	32	1412
Furniture. Folding cabinet	L. F. Deming	321,566	July 7	242	64	32	47
Furniture. Guide-track for heavy	F. Delmont	323,566	Aug. 4	242	71	32	566
Furniture. Household	A. Herig	317,355	May 5	578	148	31	629
Furniture. Household	F. G. C. Peek	318,132	May 19	1614	431	31	837
Furniture. Household	F. Shannon	331,163	Nov. 24	2308	625	33	966
Furniture. Knockdown	J. B. Brolaski	325,049	Aug. 25	2243	615 617	32	963
Furniture-leg shoe	M. Straus	319,342	June 2	497	134	31	1142
Furniture-pad	C. M. Rhodes	329,231	Oct. 27	2304	506	33	440
Furniture. Self-leveling ship's	A. J. V. Tegner	323,231	July 28	2486	660	32	476
Furniture-standards to the floor. Device for secur- ing	J. M. Brown	316,328	Apr. 21	1852	490	31	348
Furniture. Woven or knitted cord	J. Springer	326,064	Sept. 8	1123	286	32	1230
Furrower, marker, and coverer	D. E. Darnell	312,098	Feb. 10	863	236	30	517
Furrower, marker, and fertilizer-distributor com- bined. }	W. A. Lawrence	313,504	Mar. 10	645	167 168	30	905
Furrowing and covering machine	S. L. Allen	318,441	May 26	2024	545	31	921
Fuse-cutter	J. M. Martin	318,006	May 19	1452	389	31	806
Fuse. Electric safety	G. Pfannkuche	332,226	Dec. 15	1530	401	33	1286
Fuse. Electric shell	E. L. Zalinski	313,150	Mar. 3	150	37	30	804
Fuse for exploding gunpowder and other explosives	A. F. Andrews	328,172	Oct. 13	869	925	33	164
Fuse for projectiles. Percussion	T. G. Bennett	320,210	June 16	1692	450	31	1379
Gag and muzzle	J. R. Noble and J. D. Bullock	325,434	Sept. 1	292	72	32	1071
Gage: See Centering-gage. Rule-gage. Clapboard-gage. Saw-table gage. Cutter-head gage. Scratch-gage. Drawing-knife gage. Screw-thread gage. Gas-pressure gage. Seed-drill gage. Hub-boxing gage. Sewing-machine gage. Lathe-gage. Shingle and siding gage. Liquid-gage. Siding-gage. Marking-gage. Steam and water gage. Micrometer-gage. Thickness-gage. Plow-gage. Tinner's shear-table gage. Pressure-gage. Track-gage. Pressure-indicating Water-gage. gage. Weather-gage. Railway-track gage. Weather-boarding gage. Roofing-gage.							
Gage and center-square. Combined	J. C. Eckert	329,592	Nov. 10	639	163	33	631
Gage. Combination	A. J. Hellings	310,420	Jan. 6	336	92	30	65
Gaining-machine table	D. Adams	322,237	July 14	1122	292	32	214
Gaiter. Button	P. J. Ruetzel	318,033	May 19	1490	400	31	813
Gaiter. Over	E. Cowan	324,365	Aug. 18	1312	356	32	789
Galley-rest, copy-holder, and copy-guide. Combined	J. Silbernik	332,054	Dec. 22	2463	652	33	1460
Galleys. Combined side and end lock for	W. H. Golding	320,128	June 16	1591	420	31	1353
Galloping horse	H. Lacasse	327,097	Oct. 6	262	65	32	46
Galvanic battery	H. J. Brewer	323,002	Aug. 11	677	190	32	658
Galvanic battery	H. J. Brewer	323,003	Aug. 11	678	190	32	668
Galvanic battery	H. J. Brewer	323,004	Aug. 11	679	190	32	658
Galvanic battery	H. J. Brewer	323,005	Aug. 11	680	190	32	658
Galvanic battery	A. Haid	315,038	Apr. 14	1334	347	31	248
Galvanic battery	W. K. Kidder	310,831	Jan. 13	855	232	30	168
Galvanic battery	E. F. Leighton	324,708	Aug. 18	1779	491	32	869
Galvanic battery	J. B. Low	324,658	Aug. 25	1989	547	32	915
Galvanic battery	W. T. Lyman	324,475	Aug. 18	1454	397	32	808
Galvanic battery	C. P. Orne	321,446	July 7	51	15	32	12
Galvanic-battery porous cup	C. P. Orne	311,516	Feb. 3	82	24	30	364
Galvanic cell	E. M. Gardner	328,008	Oct. 13	908	236	33	173
Galvanic element	A. Dun	312,339	Feb. 17	1209	333	30	588
Galvanic elements. Apparatus for emptying and charging	A. Dun	312,340	Feb. 17	1210	333	30	588
Galvanometer. Reflecting	R. J. Pratt	323,903	July 28	2450	650 651	32	470
Game	P. K. Dealy	310,388	Jan. 6	302	83	30	58
Game	J. B. Morse	324,673	Aug. 25	2014	552	32	920
Game apparatus	S. L. Clemens	324,635	Aug. 18	1539	425	32	824
Game apparatus	W. F. C. Dunklau	324,662	Aug. 18	1439	393	32	805
Game apparatus	H. N. Ewing	330,072	Nov. 24	2056	556	33	920
Game apparatus	G. Marzari	331,419	Dec. 1	239	62, 63	33	1040
Game apparatus	J. Ram	320,091	June 16	1536	406	31	1344
Game apparatus. Parlor	M. S. Thomas	324,189	Aug. 11	1060	290	32	727
Game apparatus. Railway	J. B. Wood	326,078	Sept. 8	1145	291	32	1233
Game-board	A. F. Knorp	322,005	Oct. 27	2577	664	33	429
Game-counter	N. M. Beach	312,094	Feb. 24	1819	499	30	710
Game counter and register	A. Nicken	321,046	June 30	2844	757	31	1599
Game-counter for cribbage	J. F. Bogan	324,135	Dec. 8	1324	343	33	1242
Game counter or indicator	R. H. Martin	316,473	Apr. 28	2068	541	31	392
Game-indicator for pool-tables. Electrical	E. Curtis	320,042	June 23	2190	578	31	1469
Game of fractions	F. B. Shannon	310,325	Jan. 6	226	62	30	43
Game. Parlor base-ball	F. B. Jacobus and W. V. McKinley	330,788	Nov. 17	1807	487	33	866
Game-table. Folding	D. Gosner	329,134	Nov. 3	416	107	33	584
Game-wheel	W. Donnings	329,372	Oct. 27	2540	654	33	483
Gang-plank for ferry-boats	L. F. Frazee	313,063	Mar. 10	851	221	30	945
Gang-plank for vessels	L. F. Frazee	314,325	Mar. 24	1747	465	30	1127
Garbage-box	W. C. Groff, Sr.	317,452	May 5	716	180	31	652
Garden-drill and seed-sower. Combined	W. J. Spalding	311,385	Jan. 27	1653	451 452	30	324
Garden implement	C. Marshall	311,503	Feb. 3	58	17	30	360

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Garden-rake	J. B. Fitzpatrick and A. Lewis	332,885	Dec. 22	9873	627	33	1441
Garden. Window	J. M. Bennett	324,291	Aug. 11	1207	329	32	735
Gardening-machine	J. G. Smith	318,047	May 19	1507	404	31	816
Garment	I. Pick	310,309	Jan. 6	198	53	30	36
Garment and carrying device attached thereto	H. L. Myers and J. W. Rogers	322,844	July 21	1933	511	32	367
Garment-clasp	F. Tucker	314,549	Mar. 24	2042	544	30	1181
Garment-clasp	C. B. Weeks	327,363	Sept. 29	2696	766	32	1570
Garment. Combination	W. F. Warner	315,093	Apr. 7	145	34	31	27
Garment. Convertible	E. M. Paice	330,920	Nov. 24	1984	537	33	906
Garment-fastening	J. C. Hyde	315,944	Apr. 14	1345	349	31	249
Garment-hanging stand	J. Black	322,036	July 14	861	224	32	164
Garment-hook	G. R. Grimes	317,343	May 5	566	145	31	626
Garment. Separable	M. Bischoff	326,834	Sept. 22	2188	571	32	1438
Garment-support. Elastic	J. A. Steinan	324,426	Aug. 18	1399	390	32	796
Garment-supporter	W. H. Frost	331,392	Dec. 1	193	50	33	1032
Garment-supporter	A. Proudft.	318,204	May 19	1704	456	31	854
Garment-supporter	C. C. Shelby	321,647	July 7	318	84	32	61
Garment-supporter	C. C. Shelby	321,648	July 7	319	85	32	61
Garment-supporter	C. C. Shelby	326,162	Sept. 15	1256	322	32	1261
Garment-supporter clasp	S. H. Whiting	327,367	Sept. 29	2903	757	32	1571
Garment. Ventilated	C. I. E. Mastin	315,806	Apr. 14	1148	301	31	216
Garments. Cutting and fitting	G. Frega	314,526	Mar. 24	2015	538	30	1176
Garments. Staying slits in	W. D. Smith and W. H. Paul	325,126	Aug. 25	2341	644	32	991
Garments. Strengthening	T. E. Kent	326,749	Sept. 22	2067	537	32	1416
Garter	A. E. Fuechsel	323,866	Aug. 4	621	174	32	640
Garter	C. C. Shelby	312,297	Feb. 17	1155	317	30	578
Garter-slide	D. S. Thompson	311,691	Feb. 3	304	83	30	406
Gas and air. Apparatus for mixing	J. R. Schrimshaw	325,448	Sept. 1	316	76	32	1075
Gas and cold air. Device for mixing natural	J. H. Sheffer	330,032	Nov. 24	2005	541	33	910
Gas and electric light fixture. Combined	C. Deane	318,547	May 26	2184	585	31	949
Gas and electric light fixture. Combined	P. H. Klein, Jr	311,131	Jan. 20	1282	332	30	251
Gas and lamp bracket. Jointed	H. P. Drew	322,167	July 14	1037	969	32	197
Gas, and liquefaction of gases and production of refrigeration. Cooling and separating a lubricating agent from a compressed	J. J. Suckert	320,305	June 16	1827	485	31	1385
Gas and oil pipes. Automatic stop-valve for	W. F. Cosgrove and E. F. Jennings	325,590	Sept. 1	496	194	32	1110
Gas and other machines. Cooling attachment for	J. Ring	310,616	Jan. 13	583	161	30	118
Gas apparatus	W. M. Casler	312,431	Feb. 17	1329	367	30	612
Gas apparatus	R. H. Smith	330,165	Nov. 10	1004	292	33	704
Gas. Apparatus for detecting the presence of	G. H. Eaton	331,119	Nov. 24	2246	610	33	955
Gas. Apparatus for generating hydrocarbon	J. Hanlon	324,685	Aug. 18	1752	423	32	861
Gas. Apparatus for generating illuminating	R. Boeklen and J. D. Averell	324,809	Aug. 25	1925	539	32	903
Gas. Apparatus for generating illuminating	R. M. Potter and R. Boeklen	325,766	Sept. 8	742	166	32	1159
Gas. Apparatus for generating illuminating and heating	J. W. Mitchell	317,407	May 5	644	165	31	640
Gas. Apparatus for making	E. Brook	315,709	Apr. 14	1012	266	31	190
Gas. Apparatus for making	W. P. Elliott	326,959	Sept. 29	2306	619	32	1477
Gas. Apparatus for making	W. P. Elliott	330,778	Nov. 17	1797	424	33	864
Gas. Apparatus for making illuminating	F. Egner	331,621	Dec. 1	571	139	33	1098
Gas. Apparatus for making illuminating	C. W. Isbell	330,122	Nov. 10	953	147	33	693
Gas. Apparatus for making water	P. E. De Mill, Jr	329,290	Oct. 27	2409	625	33	461
Gas. Apparatus for manufacturing	A. O. Granger and J. H. Collins, Jr	311,483	Feb. 3	29	9	30	354
Gas. Apparatus for manufacturing	J. J. Johnston	312,729	Feb. 24	1732	476	30	695
Gas. Apparatus for manufacturing	A. F. Randall	317,953	May 19	1368	367	31	783
Gas. Apparatus for manufacturing	R. B. Stapp	317,423	May 5	670	170	31	644
Gas. Apparatus for manufacturing	L. Stevens	328,149	Oct. 13	834	217	33	158
Gas. Apparatus for manufacturing	J. L. Stewart	323,569	Dec. 15	1928	505	33	1354
Gas. Apparatus for manufacturing illuminating	S. C. Salisbury	317,561	May 19	877	225	31	690
Gas. Apparatus for manufacturing illuminating	L. Stevens	328,150	Oct. 13	836	218	33	158
Gas. Apparatus for manufacturing non-luminous heating	J. Kidd	332,087	Dec. 8	1251	326	33	1230
Gas. Apparatus for manufacturing oil	B. C. Smith	314,484	Mar. 24	1960	521	30	1167
Gas. Apparatus for the manufacture of	A. L. Allen	310,487	Jan. 6	411	113	30	79
Gas. Apparatus for the manufacture of	W. F. M. McCarty	321,124	June 30	2052	789	31	1616
Gas. Apparatus for the manufacture of	T. G. Springer and G. W. Jeremy	314,400	Mar. 24	1838	490	30	1145
Gas. Apparatus for the manufacture of illuminating	F. Egner	326,488	Sept. 15	1681	430	32	1340
Gas. Apparatus for the manufacture of illuminating	I. D. Guyer	328,400	Oct. 13	1172	303	33	222
Gas. Apparatus for washing and scrubbing coal	F. Weck	321,870	July 7	639	165	32	116
Gas apparatus. Liquid	B. M. Wilkerson	328,370	Oct. 13	1120	289	33	212
Gas-burner	W. C. Boone and W. A. Whitfield	321,274	June 30	3137	826	31	1652
Gas-burner	T. Clough	314,653	Mar. 31	2188	520	30	1234
Gas-burner	W. B. Cole	322,839	Oct. 20	1747	435	33	334
Gas-burner	E. Detwiler	324,665	Aug. 16	1723	474	32	854
Gas-burner	A. P. Guyer	314,376	Mar. 24	1808	481	30	1140
Gas-burner	W. M. Jackson	310,945	Jan. 20	1018	275	32	901
Gas-burner	I. Kendrick	325,747	Sept. 8	720	179	32	1135
Gas-burner	A. B. Lipsey	312,279	Feb. 17	1132	310	30	574
Gas-burner	B. Martin	312,367	Feb. 17	1948	341	30	585
Gas-burner	O. D. McClellan	313,508	Mar. 10	650	169	30	906
Gas-burner	O. D. McClellan	319,285	June 2	427	114	31	1128
Gas-burner	W. M. Noel	313,834	Mar. 10	1062	281	30	968
Gas-burner	R. S. Robertson and L. B. Fulton	329,776	Nov. 3	471	119	32	569
Gas-burner	F. Siemens	323,537	Aug. 4	202	59	32	272
Gas-burner	O. M. Smith	322,399	July 14	1327	346	32	991
Gas-burner	J. Sturtz	331,261	Nov. 24	2457	663	33	991
Gas-burner	T. Thorp	314,630	Mar. 31	2155	573	30	1228

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Gas-burner	A. Vreeland	326,356	Sept. 15	1533	396	32	1312
Gas-burner. Automatic safety	J. H. J. Haines and J. F. Strong	325,928	Sept. 8	937	937	32	1186
Gas-burner. Heat-generating	H. A. Kimball	323,813	Aug. 4	552	157	32	627
Gas-burner. Regenerative	A. S. Bower and T. Thorp	322,038	July 14	864	224 225	32	165
Gas-burner. Regenerative	E. O. Schartau	320,087	Oct. 27	9125	530	32	407
Gas-burner. Safety	G. W. Browne	312,805	Feb. 24	1833	503	30	712
Gas-burner. Safety	M. L. Pence	312,892	Feb. 24	1948	533	30	732
Gas-burner. Safety	L. Zageimyer	332,770	Dec. 22	2218	585	32	1414
Gas-burner safety attachment	F. Dittmar	314,000	Mar. 17	1315	344	30	1038
Gas-burner safety attachment	P. H. Grimm and W. I. Fancher	333,215	Dec. 29	2837	743	32	1531
Gas-burners. Automatic cut-off for	J. E. Birch	326,832	Sept. 23	2185	570	32	1438
Gas-burners. Electric lighting device for	L. S. White	320,606	June 23	2275	601	31	1486
Gas-burners. Oxygen-gas attachment for	C. Beesler	318,161	May 19	1650	441	31	843
Gas-burners. Safety-key for	J. and J. H. Dutton	332,648	Dec. 15	2042	536	33	1375
Gas-burners. Stop-valve for	S. B. H. Vance	316,675	Apr. 28	2321	609	31	440
Gas-burning apparatus	A. Randol	316,059	Apr. 21	1495	390	31	284
Gas by electricity. Apparatus for turning on, lighting, and shutting off	L. S. White	320,105	June 16	1555	411	31	1347
Gas by electricity. Apparatus for turning on, lighting, and turning off	L. S. White	320,106	June 16	1559	412	31	1347
Gas by electricity. Device for lighting	F. H. Root	325,569	Sept. 1	473	118	32	1106
Gas by electricity. Turning on and shutting off	L. S. White	331,321	Nov. 24	2394	648	33	961
Gas-cautery	C. Graefe	319,096	June 9	961	260	31	1238
Gas-cleansing apparatus	A. Clark	324,331	Aug. 11	1130	307	32	740
Gas. Composition for purifying	J. Duke	316,009	Apr. 28	2238		31	425
Gas. Composition of matter for the manufacture of	J. J. Johnston	312,728	Feb. 24	1732	476	30	694
Gas-compressor	L. Block	314,892	Apr. 7	6	2	31	4
Gas-compressor	P. Effertz	320,326	Nov. 3	405	104	33	582
Gas-compressor	E. Jungensfeld and H. Raasbach	332,346	Dec. 15	1611	483	33	1300
Gas-compressor	J. B. Stobaens	323,751	Aug. 4	480	136	32	613
Gas-condensers. Cooling coils of	V. H. Becker	313,047	Mar. 3	13	3	30	781
Gas-conducting mains. Preventing leakage from	H. Moeser	310,441	Jan. 13	867	235	30	170
Gas-conductor	J. Hunter	315,788	Apr. 14	1130	296	31	212
Gas-conductor	J. D. Upperman	316,006	Apr. 28	2111	555	31	401
Gas conductor. Natural	J. N. Pew	321,337	July 7	307	82	32	59
Gas conductors. Joint for natural	J. N. Pew	317,009	May 5	107	27	31	542
Gas-conduit	S. R. Brick	327,996	Oct. 13	635	168	33	122
Gas-conduit	J. I. Kay	320,568	Nov. 3	200	53	33	543
Gas-conduits. Tube-joint for	W. L. Scaife	330,624	Nov. 17	1594	427	33	825
Gas conveying and distributing system	A. W. Cadman	312,811	Feb. 24	1841	506	30	713
Gas conveying and supplying	G. Westinghouse, Jr	323,840	Aug. 4	587	185	32	634
Gas. Conveying and supplying	G. Westinghouse, Jr	328,668	Oct. 13	1117	920	33	211
Gas-conveying apparatus	T. A. and A. Connolly	331,686	Dec. 1	667	185	33	1115
Gas-cooling apparatus	C. G. Mayer	314,039	Mar. 17	1366	356	30	1048
Gas cut-off	E. C. Merrill	313,750	Mar. 10	971	251	30	966
Gas-detector for mines	J. A. Lyon	325,015	Sept. 1	525	132	32	1115
Gas-distributing pipe	W. F. Smith	323,353	Dec. 29	3029	791	33	1566
Gas-distribution	W. A. Hoeveler	323,085	Aug. 4	399	114	32	597
Gas-distribution	R. H. Smith	330,367	Nov. 10	1126	399	33	726
Gas-engine	C. H. Andrew	314,384	Mar. 24	1688	449 450	30	1116
Gas-engine	C. W. Baldwin	325,377	Sept. 1	206	52	32	1033
Gas-engine	C. W. Baldwin	325,378	Sept. 1	208	53, 54	32	1053
Gas-engine	C. W. Baldwin	325,379	Sept. 1	212	54, 55	32	1055
Gas-engine	C. W. Baldwin	325,380	Sept. 1	215	55	32	1055
Gas-engine	C. Benz	316,868	Apr. 28	2619	682	31	494
Gas-engine	M. G. Crane	327,866	Oct. 6	465	121	33	82
Gas-engine	G. Daimler	313,922	Mar. 17	1220	318	30	1020
Gas-engine	G. Daimler	313,923	Mar. 17	1222	318	30	1020
Gas-engine	W. A. Graham	330,317	Nov. 10	1191	318	33	741
Gas-engine	H. Hartig	324,554	Aug. 18	1557	430	32	828
Gas-engine	G. M. and I. N. Hopkins	326,561	Sept. 22	1777	465 466	32	1366
Gas-engine	G. M. and I. N. Hopkins	326,562	Sept. 22	1779	466 467	32	1366
Gas-engine	T. McDonough	315,806	Apr. 14	1150	302	31	216
Gas-engine	L. H. Nash	312,494	Feb. 17	1421	391 392	30	698
Gas-engine	L. H. Nash	312,496	Feb. 17	1426	392 393	30	698
Gas-engine	L. H. Nash	312,497	Feb. 17	1429	393 394	30	629
Gas-engine	L. H. Nash	312,498	Feb. 17	1432	394 378	30	629
Gas-engine	J. F. Place	322,477	July 21	1442	379 380	32	279
Gas-engine	J. F. Place	328,970	Oct. 27	1945	507 508	33	376
Gas-engine	D. S. Regan	333,326	Dec. 29	3006	787	33	1562
Gas-engine	C. Shelburne	322,650	July 21	1668	441 442	32	319
Gas-engine	C. Shelburne	332,447	Dec. 15	1750	457 458	33	1324
Gas-engine	D. S. Troy	317,892	May 12	1287	343 344	31	768
Gas-engine	S. Wilcox	332,313	Dec. 15	1566	411	33	1292
Gas-engine	S. Wilcox	332,314	Dec. 15	1568	412	33	1292
Gas-engine	S. Wilcox	332,315	Dec. 15	1569	412	33	1293
Gas-engine	J. S. Wood	328,170	Oct. 13	866	294 295	33	164
Gas engine and pump. Combined	A. W. Schleicher	314,727	Mar. 31	2278	605	30	1251
Gas-engine for railway-cars	H. P. Feister	324,244	Aug. 11	1142	311 312	32	742

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.-g.	Vol.	Page.
Gas-engine gas-governor	E. Schrabetz	312,906	Feb. 24	1964	537	30	735
Gas-engine igniter	L. H. Nash	312,499	Feb. 17	1435	394	30	630
Gas-engines. Electric igniter for	D. S. Regan	320,285	June 16	1804	479	31	1391
Gas-engines. Operating	L. H. Nash	331,060	Nov. 24	2185	592	33	944
Gas-explosions. Preventing	S. Stutz	315,082	Apr. 7	130	30	31	85
Gas-extinguisher	D. C. Rice and A. L. Currey	320,694	June 23	2389	632	31	1507
Gas-fittings. Plumb-bob for	J. J. Lawler	331,144	Nov. 24	2283	612	33	961
Gas-fixtures. Electric lighting attachment for	C. A. Hussey	320,065	June 16	1499	396	31	1338
Gas-flame. Support for holding and adjusting incandescing bodies in a	O. B. Fahnehjelm	332,650	Dec. 15	2042	536	33	1376
Gas-fluid	A. F. Zimmerling	313,795	Mar. 10	1033	537	30	978
Gas for illuminating and heating purposes. Manufacturing	J. W. Mitchell	317,406	May 5	642	164	31	640
Gas for illuminating purposes. Apparatus for regulating the admixture of carbureted and uncarbureted	W. J. Kidd	332,088	Dec. 8	1254	326	33	1231
Gas from a condensable vapor. Method of and apparatus for separating a liquefiable	J. J. Suckert	320,310	June 16	1857	487	31	1399
Gas from burners. Apparatus for automatically cutting off	C. G. Nye	327,963	Oct. 6	592	154	33	106
Gas from escaping. Means for holding and preventing	T. Prosser	326,242	Sept. 15	1373	355	32	1282
Gas from mains. Preventing leakage of	H. Moeser	317,408	May 5	647	165	31	641
Gas from sawdust. Apparatus for manufacturing	G. Walker	321,868	July 7	635	164	32	116
Gas from wood. Apparatus for manufacturing	G. Ramadell	317,197	May 5	369	92	31	590
Gas-furnace	J. Ashcroft	328,914	Oct. 27	1858	485	33	361
Gas-furnace	H. H. Garrett	329,827	Nov. 3	547	139	33	607
Gas-furnace	W. Swindell	310,745	Jan. 13	750	204	30	142
Gas-furnace	W. Swindell	327,618	Oct. 6	158	38, 39	33	29
Gas. Furnace for generating illuminating	S. I. Anthony	311,403	Jan. 27	1675	457	30	329
Gas. Furnace for manufacturing illuminating	F. Egner	315,751	Apr. 14	1081	284	31	203
Gas furnace. Regenerative natural	W. Swindell	322,994	July 28	2157	573	32	416
Gas furnace. Regenerative natural	W. Swindell	323,995	July 28	2158	573	32	416
Gas generating and burning device	R. A. Bury and R. M. Bidelman	313,575	Mar. 10	730	192	30	922
Gas-generating apparatus	W. F. Browne	328,834	Oct. 20	1737	452	33	333
Gas-generating apparatus	A. O. Granger	311,424	Feb. 3	31	9	30	355
Gas-generating apparatus	A. O. Granger	318,106	May 19	1562	493	31	830
Gas-generating apparatus	I. Janica	311,493	Feb. 3	45	13	30	357
Gas-generating apparatus	T. R. White	327,844	Oct. 6	439	115	33	77
Gas. Generating carbonic acid	C. E. Avery	316,863	Apr. 28	2612	31	33	493
Gas. Generating hydrogen	B. Sloper	324,179	Aug. 11	1047	286	32	725
Gas-generating retort-furnace	R. H. Smith	321,770	July 7	493	130	32	92
Gas-generator	J. Bowes	316,520	Apr. 28	2127	560	31	404
Gas-generator	F. Claus	311,161	Jan. 20	1320	363	30	257
Gas-generator	A. Detwiler	315,747	Apr. 14	1077	282	31	201
Gas-generator	L. Mond	311,441	Jan. 27	1724	469	30	337
Gas-generators. Relief-valve for	W. T. Bate	331,024	Nov. 24	2113	572	33	931
Gas-governor	T. Gordon	315,496	Apr. 14	719	190	31	134
Gas-governor	P. Kelly	331,890	Dec. 8	959	248	33	1178
Gas-governor	J. P. Reincke	328,338	Oct. 13	1075	370	32	204
Gas-governor	S. J. Wakeley	322,023	July 14	924	239	32	176
Gas-governor. Automatic	J. S. Connelly	316,945	May 5	18	6	31	526
Gas-governor. Automatic	M. O. Gorman	310,580	Jan. 13	542	149	30	110
Gas-governors. Automatic pressure-regulator for	W. Helme	328,942	Oct. 27	1901	497	32	354
Gas, &c. Heating-burner for	H. B. Chess	322,791	July 21	1852	492	32	1163
Gas-lighter	J. A. Cabot	325,786	Sept. 8	769	192	30	1062
Gas-lighter. Electric	J. Geary	314,119	Mar. 17	1474	384	33	1100
Gas-lighter. Electric	J. Geary	331,630	Dec. 1	589	145	30	1060
Gas-lighter. Electric	C. W. Weiss	314,088	Mar. 17	1430	374	31	374
Gas-lighter. Electric	E. H. Wright	316,428	Apr. 21	1998	525	31	374
Gas-lighter. Electric	E. H. Wright	316,429	Apr. 21	1998	525	31	374
Gas-lighter. Percussion	J. H. Wesson	323,893	Aug. 4	659	186	32	19
Gas-lighting apparatus. Electric	J. A. Norton	315,055	Apr. 7	96	23	31	20
Gas-lighting apparatus. Electric	J. A. Norton	315,056	Apr. 7	100	24	31	20
Gas-lighting apparatus. Electric	L. S. White	324,058	Aug. 11	879	242	32	213
Gas-lighting apparatus. Electric	H. N. Williams	322,273	July 14	1117	291	32	440
Gas-lighting apparatus. Knob for electric	F. Lane	311,840	Feb. 3	487	133	30	624
Gas-lighting apparatus. Portable electrical	C. L. Clarke	321,009	Aug. 11	812	226	32	373
Gas-lighting burner. Electric	D. Rousseau	322,977	Oct. 27	1963	510	32	30
Gas-lighting device. Electric	J. A. Norton	315,057	Apr. 7	101	24	31	20
Gas-lighting device. Electric	D. Rousseau	322,976	Oct. 27	1959	510	32	146
Gas-machine	A. W. Frail	321,959	July 14	757	198	30	445
Gas-machine	W. C. Strong	311,858	Feb. 3	513	139	30	208
Gas-machine. Automatic	J. Stabbers	328,359	Oct. 13	1104	286	32	1168
Gas-machine. Hydrocarbon	H. Allender	314,412	Mar. 24	1853	494	31	799
Gas machines and mixers. Adjustable apparatus for	J. P. Clifford	317,975	May 19	1409	378	33	47
Gas-main	J. H. McElroy	327,703	Oct. 6	2668	68	33	113
Gas-main. Underground	A. Randol	315,413	Apr. 7	634	164	31	1222
Gas-main ventilator	J. J. Ricketts	330,002	June 16	1418	372	31	706
Gas-mains. Carrying off leakage from	G. Westinghouse, Jr.	312,777	Feb. 24	1798	495	30	1147
Gas-mains. Detecting and carrying off leakage from	G. Westinghouse, Jr.	319,364	June 2	523	142	31	707
Gas-mains. Detecting and carrying off leakage from	G. Westinghouse, Jr.	320,179	Nov. 10	1020	266	33	1090
Gas-mains. Detecting and carrying off leakage from	G. Westinghouse, Jr.	331,585	Dec. 1	528	128	33	1090
Gas-mains. Detecting and closing leaks in	G. Westinghouse, Jr.	331,596	Dec. 1	529	129	33	711
Gas-mains. Detecting leakage in	H. Bartley	330,199	Nov. 10	1043	272	33	640
Gas-mains. Detecting leaks in	G. Westinghouse, Jr.	312,541	Feb. 17	1492	407	30	641
Gas-mains. Detecting leaks in	G. Westinghouse, Jr.	312,542	Feb. 17	1493	407	30	656
Gas-mains. Detecting leaks in	G. Westinghouse, Jr. (Reissue)	10,561	Feb. 17	1556	427	30	94
Gas-mains. Detecting leaks in	G. Westinghouse, Jr.	315,363	Apr. 7	520	133	31	

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &	Vol.	Page.
Gas-mains. Leak-detector for	J. J. Ricketts	320,695	June 23	2390	632	31	1507
Gas-mains. Pipe-coupling for	G. Westinghouse, Jr.	318,840	May 26	2567	683	31	1017
Gas-mains. Pipe-joint for	G. Westinghouse, Jr.	318,841	May 26	2568	683	31	1017
Gas-mains. Safety-shield for	R. Heber	316,967	May 5	49	13	31	531
Gas-mains. Sealing the joints of	W. A. Hoeveler	333,011	Dec. 23	2552	672	33	1475
Gas. Making	W. F. M. McCarty	321,125	June 30	2953	752	31	1617
Gas-making apparatus	T. F. Martin	320,078	June 16	1519	402	31	1341
Gas. Making illuminating	W. P. Elliott	327,541	Oct. 6	52	12	33	11
Gas. Manufacturing	J. J. Johnston	312,730	Feb. 24	1733	476 } 477 }	30	695
Gas. Manufacturing	W. F. M. McCarty	330,142	Nov. 10	976	254	33	698
Gas. Manufacturing	T. G. Springer and G. W. Jeremy	314,466	Mar. 24	1962	523	30	1167
Gas. Manufacturing	R. B. Stapp	318,318	May 19	1861	500	31	882
Gas. Manufacturing	J. L. Stewart	329,967	Nov. 10	740	188	33	650
Gas. Manufacturing illuminating	C. M. Gearing	323,660	Aug. 4	369	105	32	591
Gas. Manufacturing illuminating	J. W. Mitchell	331,903	Dec. 8	974	252	33	1180
Gas. Manufacturing illuminating	B. Sloper	332,957	Dec. 22	2465	633	33	1461
Gas. Manufacturing illuminating	L. Stevens	329,151	Oct. 13	537	218	33	158
Gas-meter	G. Fajen	312,106	Feb. 10	869	238	30	518
Gas-meter	W. N. Milsted	319,111	June 2	220	57	31	1088
Gas. Method of and apparatus for enriching and burning water	C. J. Eames	311,967	Feb. 10	688	188	30	483
Gas. Method of and apparatus for generating	C. W. Isbell and W. H. Taylor	322,608	July 21	1618	488 } 429 }	32	310
Gas-mixer	J. L. Chapman	329,717	Nov. 3	394	101	33	580
Gas-motor	G. M. Ward	311,14	Jan. 27	1405	384	30	279
Gas or vapor burner	M. B. and C. G. Dyott	326,550	Sept. 22	1763	461 } 462 }	32	1363
Gas-pipe holder	C. G. Duffy	312,193	Feb. 10	1005	274	30	542
Gas. Pipe-line for carrying	K. H. Stivason	317,880	May 12	1271	339	31	764
Gas-pipes. Expansion-joint for	W. S. Turner	323,834	Aug. 4	579	163	32	632
Gas-pressure gage	C. Hoffmann	318,473	May 26	2061	557	31	929
Gas-pressure regulator	J. D. Averell	313,846	Mar. 17	1107	287	30	999
Gas-pressure regulator	R. Boeklen	317,918	May 12	1324	355	31	775
Gas-pressure regulator	S. Cabot, Jr.	315,717	Apr. 14	1028	270	31	192
Gas-pressure regulator	E. Derval	325,509	Sept. 1	395	97	32	1090
Gas-pressure regulator	R. B. Dick	325,510	Sept. 1	398	98	32	1091
Gas-pressure regulator	L. G. Francis	312,560	Feb. 17	1516	413	30	646
Gas-pressure regulator	R. F. Hatfield	329,163	Oct. 27	2228	577	33	426
Gas-pressure regulator	R. F. Hatfield	331,878	Dec. 8	936	242	33	1173
Gas-pressure regulator	G. A., Sr., and G. A. Hyde, Jr. (Re-issue.)	10,656	Nov. 3	608	156	33	618
Gas-pressure regulator	E. C. Merrill	329,928	Nov. 10	681	174	33	639
Gas-pressure regulator	P. Munzinger	320,973	June 16	1784	474 } 475 }	31	1387
Gas. Process of and apparatus for manufacturing	J. Hanlon	311,124	Jan. 20	1967	347 } 348 } 349 }	30	248
Gas. Process of and apparatus for manufacturing	J. Hanlon	311,125	Jan. 20	1972	349 } 350 } 351 }	30	248
Gas. Process of and apparatus for manufacturing	T. G. Springer	314,739	Mar. 31	2291	608	30	1253
Gas-producer	J. Henderson	320,873	June 23	2606	690	31	1549
Gas-producer and gas-engine. Combined	L. H. Nash	322,063	July 14	898	233	32	171
Gas-producer for metallurgic operations	N. Lillienberg and G. S. Dwight	329,058	Oct. 27	2079	540	33	400
Gas. Producing	A. W. Putnam-Cramer	323,366	July 28	2685	715	32	511
Gas. Producing illuminating	R. H. Smith	320,747	Nov. 17	1762	475	33	857
Gas-proof tubing. India-rubber	T. Fletcher	318,458	May 26	2044	552	31	925
Gas. Purifying and odorizing natural	J. Kountz	316,465	Apr. 28	2059	539	31	390
Gas-purifying apparatus	A. O. Granger	313,661	Mar. 17	1125	292	30	1003
Gas. Purifying coal	J. G. Hawkins	328,309	Oct. 13	1034	33	196	
Gas. Purifying water	O. Lugo	315,953	Apr. 14	1360	352	31	251
Gas-regulating burner	W. M. Jackson	316,626	Apr. 28	2259	594	31	428
Gas-regulating valve	A. McLennan	315,050	Apr. 7	87	21	31	18
Gas. Regulating-valve for natural	J. F. Maxson	324,571	Aug. 18	1581	436	32	832
Gas-regulator	T. Angell	310,240	Jan. 6	98	27	30	21
Gas-regulator	T. Angell	322,572	July 21	1577	415	32	302
Gas-regulator	A. W. Cadman	329,011	Oct. 27	2014	523	33	388
Gas-regulator	W. H. Cothren	317,734	May 12	1070	280	31	796
Gas-regulator	J. Fleischer, H. W. Müller, and J. G. Arnold	324,762	Aug. 18	1852	510	32	883
Gas-regulator	E. M. Goddard	328,480	Oct. 20	1270	329	33	247
Gas-regulator	J. and W. Goodson	313,321	Mar. 3	408	102	30	851
Gas-regulator	J. Hunter	316,625	Apr. 28	2257	594	31	428
Gas-regulator	A. F. Olds	331,000	Nov. 24	2088	565	33	926
Gas-regulator	C. L. Phillips and J. J. Ricketts	322,002	July 14	814	213	32	157
Gas-regulator	J. Robertson	320,263	Nov. 10	1121	298	33	727
Gas-regulator	R. Seeger	320,095	June 16	1541	408	31	1345
Gas-regulator	J. D. West	325,138	Aug. 25	2356	649	32	984
Gas regulator and cut-off	J. P. Reinecke	331,544	Dec. 1	407	109	33	1071
Gas regulator and meter	J. N. Pew and T. L. Shields	321,136	June 30	2964	785 } 786 }	31	1619
Gas-regulator. Automatic	A. J. Stewart	332,568	Dec. 15	1926	503	33	1354
Gas regulator or governor	J. H. Luther	312,483	Feb. 17	1407	398	30	625
Gas regulator or governor	J. H. Luther	312,484	Feb. 17	1408	388 } 389 }	30	625
Gas-retort	A. C. Swain	310,744	Jan. 13	749	203	30	148
Gas-retort door	J. Bartle	314,780	Mar. 31	2376	629	30	1270
Gas-retort lid	W. T. Walker	331,102	Nov. 24	2213	599	33	949
Gas-retorts. Apparatus for receiving and conveying away coke drawn from	H. Hack and F. Ley	323,323	July 28	2620	696 } 697 }	32	500
Gas-retorts. Device for fastening mouth-pieces to	J. Dell	318,965	June 2	48	12	31	1057
Gas-scrubber	C. W. Isbell	328,408	Oct. 13	1182	306	33	224
Gas-scrubber	J. McKay	328,134	Oct. 13	814	213	33	154
Gas-service valve	H. A. Stearns	325,989	Sept. 8	1016	259	32	1210

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Gas supplied to burners. Device for enriching	N. Finck	324,992	Aug. 25	2176	595	32	949
Gas-supply. Pipe-line for	G. Westinghouse, Jr.	319,365	June 2	524	143	31	1117
Gas-supply system. Natural	W. C. Henry and A. Smedley	329,902	Nov. 10	650	166	33	633
Gas. System for the distribution of	W. A. Hoeveler	333,462	Dec. 29	3170	828	33	1580
Gas-tight expansion-joint	D. Jarves	320,661	June 23	2347	620	31	1499
Gas-trap cover for wash-basins	N. Schwab	324,492	Aug. 18	1479	405	32	813
Gas under pressure. Conduit for the conveyance of	H. Bartley	317,283	May 5	460	121	31	611
Gas under pressure. Controlling	J. W. Ellis	321,426	July 7	18	4	32	6
Gas under pressure. Main for conveying	T. A. and A. A. Connolly	330,394	Nov. 10	1165	310	33	736
Gas under pressure. System for conveying	W. A. Hoeveler	318,901	May 26	2643	701	31	1032
Gas under pressure. System for distributing	W. A. Hoeveler and T. J. McTighe.	312,470	Feb. 17	1389	383 384	30	622
Gas-valve. Automatic	I. B. Millner	310,605	Jan. 13	573	158	30	116
Gas washer. Chlorine	J. A. Just	317,796	May 19	1161	307	31	743
Gas-works. Discharging tar from hydraulic mains in	A. Hutchison	312,565	Feb. 17	1523	415	30	647
Gas-works. Hydraulic main for	C. W. Isbell	311,585	Feb. 3	170	48	30	380
Gases and fluids. Device for regulating the flow of	G. Taylor	325,459	Sept. 1	327	79	32	1077
Gases and liquids in refrigerators and other structures. Instrument for regulating the flow of	J. E. Holmes	332,150	Dec. 8	1348	349	33	1246
Gases and producing refrigeration. Liquefying	J. J. Suckert	320,306	June 16	1835	486	31	1307
Gases and producing refrigeration. Method of and apparatus for purifying and liquefying	J. J. Suckert	320,307	June 16	1841	486	31	1308
Gases. Apparatus for generating heating and illuminating	J. J. Newell	314,871	Mar. 31	2493	661	30	1292
Gases. Apparatus for regulating or controlling from a distance the flow of	F. L. Muratori and E. Cros	314,188	Mar. 17	1560	409	30	1062
Gases. Apparatus for utilizing wood	H. M. Pierce	326,451	Sept. 15	1637	428	32	1332
Gases for metallurgical purposes. Utilizing wood	H. M. Pierce	326,452	Sept. 15	1638	428	32	1333
Gases or fluids under pressure. Regulator for	J. S. Hazard	314,020	Mar. 17	1342	349 350	30	1044
Gases. Treating heating and illuminating	W. F. Browne	331,225	Nov. 24	2400	649 650	33	922
Gaseous fuel. Apparatus for making and burning	R. P. Ambler	330,980	Nov. 10	1142	304	33	731
Gaseous fuel. Apparatus for making and burning	R. P. Ambler and H. Deitz	330,190	Nov. 10	1034	270	33	710
Gasket for man-holes	W. T. Y. Schenck	326,593	Sept. 22	1822	479	32	1374
Gaskets for steam-boilers. Manufacture of	W. T. Y. Schenck	326,594	Sept. 22	1823	480	32	1374
Gate:							
See Automatic gate. Flood and sluice gate.							
Bridge-gate. Folding gate.							
Bridge safety-gate. Hatch-gate.							
Car-door change-gate. Railway-gate.							
Elevator-gate. Railway-crossing gate.							
Elevator safety-gate. Sliding gate.							
End-gate. Swinging gate.							
Farm-gate. Turbine-wheel gate.							
Flood-gate. Water-gate.							
Wire gate.							
Gate	J. Austin and R. Chamberlain	331,673	Dec. 1	644	159	33	1111
Gate	J. Bardin, Jr.	328,560	Oct. 20	1379	359	33	266
Gate	G. A. Barlow	323,102	July 28	2309	610	32	443
Gate	P. S. Banett	328,748	Oct. 20	1637	428	33	313
Gate	G. M. Bates	331,110	Nov. 24	2232	606	33	953
Gate	G. Bristol	320,534	June 23	2181	575	31	1467
Gate	J. N. Buckner	327,853	Oct. 6	910	52	33	37
Gate	C. L. Burden	312,427	Feb. 17	1394	365	30	611
Gate	J. B. Campbell	323,325	Aug. 4	16	5	32	526
Gate	J. H. Carpenter	328,186	Oct. 13	883	229	33	167
Gate	W. W. Carpenter and A. S. Dudley	322,419	July 21	1358	354	32	264
Gate	P. C. Cesana	319,193	June 2	312	83	31	1106
Gate	H. H. Clement	312,432	Feb. 17	1331	367	30	612
Gate	D. I. Cobb	329,276	Oct. 27	2387	617	33	457
Gate	C. A. Coffin and T. Ferguson	318,355	May 19	1914	516	31	892
Gate	W. E. Connelly	318,067	May 19	1555	417	31	895
Gate	W. H. Cox	322,352	July 14	1264	336	32	940
Gate	R. I. Davis	313,835	Mar. 17	1118	290	30	1002
Gate	J. Du Bois	311,066	Jan. 20	1189	596	30	234
Gate	H. F. Dunn	331,778	Dec. 8	796	301	33	1148
Gate	C. W. Estelle	312,621	Feb. 24	1589	435	30	669
Gate	H. A. Filley	312,532	Feb. 24	1876	514	30	720
Gate	E. Fischer	330,474	Nov. 17	1418	378	33	791
Gate	J. D. Fox	330,575	Nov. 17	1536	411	33	814
Gate	G. Gibson	310,408	Jan. 6	325	30	33	63
Gate	J. F. Glidden	328,772	Oct. 20	1661	433	33	318
Gate	H. Green	332,341	Dec. 15	1606	422	33	1299
Gate	S. C. Gridley	326,732	Sept. 22	2047	533	32	1412
Gate	R. F. Hageman	315,274	Apr. 7	408	101	31	74
Gate	H. S. Harris	329,308	Oct. 27	2438	632	33	466
Gate	J. Hartman	326,870	Sept. 22	2242	584	32	1448
Gate	A. H. Hatmaker	312,466	Feb. 17	1377	380	30	621
Gate	J. Hauser	321,215	June 30	3065	813	31	1639
Gate	T. A. Hill	328,118	Oct. 13	798	208	33	151
Gate	M. P. Hiveley	332,802	Dec. 22	2255	594	33	1621
Gate	A. Holeman	327,684	Oct. 6	249	61	33	43
Gate	J. F. Hopgood	321,604	July 7	267	71	32	51
Gate	C. P. Howe	323,684	Aug. 4	398	114	32	597
Gate	E. E. Hunt	318,430	May 19	2010	541	31	999
Gate	P. T. Keegan	320,662	June 23	2348	621	31	1499
Gate	J. H. Kinter	320,257	June 16	1751	465	31	1328
Gate	W. G. Kyte and J. A. Martin	325,213	Aug. 25	2460	676	32	1002
Gate	J. H. Lamoureux	331,720	Dec. 1	711	176	33	1194
Gate	E. J. Lane	329,056	Oct. 27	2078	539	33	339
Gate	R. J. Leitzel and H. Frock	320,805	June 23	2590	667	31	1539
Gate	J. Lockwood and W. Crary	311,339	Jan. 27	1591	435	30	313
Gate	J. B. May	318,386	May 19	1952	526	31	900
Gate	G. C. Milgate	313,226	Mar. 3	286	72	30	688

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.	Vol.	Page.
Gate.....	S. E. Miller.....	317,405	May 5	641	164	31	640
Gate.....	J. F. Peck.....	322,000	July 14	812	213	32	156
Gate.....	W. A. Peeples.....	322,316	July 14	1214	319	32	231
Gate.....	J. Phillippe.....	316,652	Apr. 28	2293	602	31	435
Gate.....	W. R. Pitt.....	312,380	Feb. 17	1260	348	30	598
Gate.....	W. A. Preston.....	322,852	July 21	1943	514	32	369
Gate.....	O. E. Seymour.....	324,735	Aug. 18	1810	500	32	875
Gate.....	F. W. Shellabarger.....	327,606	Oct. 6	136	32	33	26
Gate.....	A. Siegert.....	331,166	Nov. 24	2311	628	33	967
Gate.....	J. W. Sims.....	319,333	June 2	488	131	31	1141
Gate.....	I. E. Smith.....	321,767	July 7	488	129	32	91
Gate.....	D. G. Smoot.....	316,844	Apr. 28	2585	676	31	488
Gate.....	D. Snell.....	331,567	Dec. 1	449	116	33	1078
Gate.....	W. G. Stone.....	326,173	Sept. 15	1271	327	32	1264
Gate.....	H. Terry.....	331,168	Nov. 24	2314	627	33	967
Gate.....	L. D. Wade.....	316,315	Apr. 21	1839	485	31	346
Gate.....	S. G. Wilkerson.....	317,058	May 5	165	42	31	553
Gate.....	J. G. Wilson.....	325,468	Sept. 1	337	82	32	1079
Gate attachment. Swinging.	J. F. Mock.....	324,871	Aug. 25	2011	552	32	919
Gate-hanger.....	I. Crowfoot.....	326,548	Sept. 22	1762	461	32	1363
Gate-hanger.....	J. S. Pringle.....	328,356	July 21	1547	409	32	207
Gate opening and closing apparatus	W. Schultz.....	313,688	Mar. 10	876	228	30	850
Gate-roller.....	D. Gardner.....	321,708	July 7	399	106	32	75
Gate roller and hinge. Combined.	E. C. Washburn.....	330,648	Nov. 17	1625	437	33	832
Gate-spring.....	M. Klous and W. A. Morton.....	327,445	Sept. 29	3002	784	32	1589
Gates and signals. Automatically-operating	J. F. Sharp.....	322,327	July 14	1226	322	32	243
Gates. Attachment for operating	W. T. Vann.....	314,632	Mar. 31	2158	573	30	1229
Gates. Device for operating	C. H. Paxson.....	332,940	Dec. 22	2443	646	33	1457
Gates. Mechanism for operating road-crossing	J. H. Clayton.....	326,275	Sept. 15	1416	368	32	1290
Gates. Operating device for swinging	G. Zink.....	325,144	Aug. 25	2362	651	32	985
Gathering and ruffling fabrics. Machine for	J. H. Trowbridge.....	323,544	Aug. 4	214	63	32	562
Gathering and shipping can.....	H. Haak.....	322,931	Aug. 11	710	199	32	664
Gear-cutter.....	U. and H. E. Eberhardt.....	332,064	Dec. 8	1212	316	33	1224
Gear-cutter.....	H. Schulze-Berge.....	320,179	June 16	1648	439	31	1364
Gear-cutter.....	D. Slate.....	326,889	Sept. 22	2266	523	32	1452
Gear-cutter shaping-tool.....	R. M. Hill.....	316,784	Apr. 28	2496	651	31	472
Gear-cutting machine.....	Z. B. Coes and G. W. Miller.....	310,796	Jan. 13	813	220	30	159
Gear-cutting machine.....	M. O'Gorman.....	330,510	Nov. 17	1461	391	33	799
Gear-cutting machine.....	A. Swasey.....	327,037	Sept. 29	2461	644	32	1495
Gear-cutting machine. Automatic	A. H. Brainard and Z. B. Coes.....	310,247	Jan. 6	107	30	30	22
Gear-cutting machines. Chip-clearer for.....	U. and H. E. Eberhardt.....	321,694	July 7	386	103	32	72
Gear-cutting machines. Index for.....	G. G. Nodde.....	316,811	Apr. 28	2532	662	31	479
Gear. Driving and reversing.....	H. W. Fowler.....	310,265	Jan. 6	137	39	30	28
Gear for transmitting motion.....	J. B. Sims.....	327,730	Oct. 6	303	77	33	83
Gear. Friction.....	S. Wilcox.....	312,780	Feb. 24	1802	496	30	707
Gear. Portable speed-reducing.....	J. S. Worth.....	325,220	Aug. 25	2467	679	32	1004
Gear. Reversing.....	H. Barton.....	318,568	May 26	2241	600	31	959
Gear. Reversing.....	H. D. Coleman.....	322,797	July 21	1859	494	32	355
Gear. Reversing.....	C. M. Giddings.....	315,762	Apr. 14	1096	287	31	205
Gear. Reversing.....	H. H. Hudson.....	314,380	Mar. 24	1813	483	30	1141
Gear. Split.....	J. Lawlor.....	331,978	Dec. 8	1090	283	33	1202
Gear-wheel.....	R. N. Allen.....	315,214	Apr. 7	356	81	31	60
Gear-wheel.....	A. Plamondon.....	314,472	Mar. 24	1944	517	30	1164
Gear-wheel.....	J. C. Wilson, Sr.....	322,667	July 21	1691	448	32	324
Gear-wheel teeth. Cutting.....	A. Swasey.....	323,498	Dec. 29	2302	637	33	1505
Gears. Device for starting the dead-wheel in mutilated	M. M. Hooton.....	326,964	Sept. 29	2393	696	32	1462
Gearing.....	G. H. Ashby.....	312,064	Feb. 10	815	222	30	507
Gearing.....	R. Campbell.....	324,455	Aug. 18	1432	391	32	804
Gearing.....	F. W. Clough.....	329,721	Nov. 3	399	102	33	581
Gearing.....	H. Schulze-Berge.....	319,513	June 9	738	198	31	1194
Gearing.....	J. F. Walker.....	329,106	Oct. 27	2150	557	33	412
Gearing and relief mechanism for driving rolls	W. F. Cochrane.....	327,240	Sept. 29	2728	709	32	1542
Gearing. Belt.....	J. T. Baggis.....	310,359	Jan. 6	269	74	30	52
Gearing. Belt.....	O. M. Morse.....	326,670	Sept. 22	1927	507	32	1392
Gearing. Belt.....	W. N. Whiteley.....	320,734	June 23	2433	645	31	1516
Gearing. Chain.....	H. Knowlton.....	327,446	Sept. 29	3003	784	32	1589
Gearing for reverse-shafts.....	W. F. Cowden.....	322,798	July 21	1860	494	32	355
Gearing. Friction.....	G. M. Wheeler.....	310,867	Jan. 13	898	243	30	175
Gearing. Reversible friction.....	J. H. Whiting.....	315,687	Apr. 14	963	257	31	185
Gearing. Stop-motion.....	S. D. Locke.....	316,797	Apr. 28	2515	657	31	475
Gearing. Traction-chain.....	G. E. Burt.....	325,654	Sept. 8	582	148	32	1131
Gearing. Transmitting.....	W. G. Gass.....	326,861	Sept. 22	2229	582	32	1445
Gelatine when combined with tannic acid, &c. Treating	C. S. Lockwood, J. W. Hyatt, and J. H. Stevens.	317,390	May 5	622		31	636
Generator:							
See Electric generator. Motor-pressure generator.							
Electrical generator. Steam-generator.							
Hot-air generator. Vapor-generator.							
Gas-generator. Vinegar-generator.							
Geometric figures. Device for laying off.....	E. M. Goldsmith and E. Reizenstein.	332,148	Dec. 8	1345	348	33	1245
Gimbal-joint.....	A. P. Bickmore.....	315,112	Apr. 7	168	41	31	31

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &c.	Vol.	Page.
Gingham-exhibitor	M. Umstadter	331,850	Dec. 8	898	232	33	1166
Girder	J. Vanes	327,360	Sept. 29	2896	756	32	1570
Girders. Manufacturing	A. H. Emery	322,049	July 14	879	228	32	168
Gland or packing follower	R. M. Fryer	320,924	June 30	2684	713	31	1569
Glass:							
See Jelly-glass.							
Glass and articles therefrom. Manufacture of	F. S. Shirley	332,294	Dec. 15	1540	403	33	1287
Glass and other furnaces of the regenerator type	E. Walsh, Jr	320,516	June 23	2155	568 569	31	1463
Glass and producing the same	J. Locke	316,551	Apr. 28	2164	570	31	411
Glass annealing and flattening furnace	H. Estep	314,524	Mar. 24	2011	636	30	1175
Glass-annealing furnace	C. H. Lauman	317,808	May 12	1174	311	31	746
Glass-annealing furnace	G. Leuffgen	313,347	Mar. 3	439	111	30	857
Glass bottles, &c. Finishing the mouths of	G. W. Yost	317,269	May 5	462	116	31	608
Glass can-cap	T. G. Otterson and C. C. Voorhies	313,220	Mar. 3	288	73	30	829
Glass case for clocks, &c.	J. G. Schultheis	325,866	Sept. 8	871	219	32	1123
Glass cigar-molds. Form or mold for	H. Hilde	321,498	July 7	118	31	32	21
Glass cruet. Manufacture of	D. A. McNair	311,197	Jan. 27	1381	378	30	475
Glass-cutters' use. Cushioned nippers and pliers for	J. Norris	331,812	Dec. 8	835	213	33	1153
Glass-cutting apparatus	W. H. Munford	325,855	Sept. 8	857	215 216	32	1180
Glass-cutting machine. Electric	P. Lange and E. Lindner	317,805	May 12	1171	311	31	746
Glass cutting or trimming tool	J. C. Derby	316,430	Apr. 21	1999	525 526	31	374
Glass. Decorating	W. Hyland	313,671	Mar. 10	858	30	947	
Glass. Decorating or ornamenting	B. E. Foster	333,457	Dec. 29	3160	32	1568	
Glass-flattening furnace	C. Tondou	320,172	Nov. 10	1011	264	32	705
Glass for cementation. Preparing	C. F. Brush	331,764	Dec. 8	781	188	32	1146
Glass. Forming screw-threads on	J. G. Pennycook	324,157	Aug. 11	1019	278	32	719
Glass from annealing-ovens. Apparatus for removing sheets of	J. Casner	324,533	Aug. 18	1536	424	32	823
Glass from the flattening wheel through the annealing arch or tunnel. Device for conveying sheets of	P. Pfeifer	333,331	Dec. 29	3099	785	33	1561
Glass-furnace	J. Anderson	315,694	Apr. 14	991	260	31	186
Glass-furnace	W. T. Armstrong and R. H. Thomas	328,173	Oct. 13	870	226	33	164
Glass-furnace	J. Ashcroft	311,034	Jan. 20	1169	320	30	231
Glass-furnace	J. Ashcroft	327,984	Oct. 13	623	164	33	120
Glass-furnace	H. L. Dixon	324,307	Aug. 11	1231	335 336	32	760
Glass-furnace	J. V. Ebel	310,804	Jan. 13	822	223	30	161
Glass-furnace	A. Ferrari	330,307	Nov. 10	1181	315	33	739
Glass-furnace	D. Feters	319,688	June 9	964	256	31	1235
Glass-furnace	L. Houze	323,937	Aug. 11	720	201	32	666
Glass-furnace	T. W. Synnott	329,970	Nov. 10	743	189	33	650
Glass-furnace. Regenerating and reverberating	W. F. Modes	330,951	June 30	2715	720	31	1575
Glass, &c. Furnace for melting	J. Pedder	323,728	Aug. 4	453	128	32	608
Glass-furnace stone	H. Felker	330,473	Nov. 17	1417	378	33	791
Glass. Imitation stained	F. O. Lyon	326,572	Sept. 22	1790	32	1368	
Glass jar for fire-extinguishing compounds, &c.	J. R. Smith	314,885	Mar. 31	2512	666	30	1295
Glass jars, bottles, &c. Machine for forming	D. W. Norris	314,975	Mar. 31	2640	699	30	1315
Glass lamps, &c. Mold for	J. M. Wood	312,319	Feb. 17	1171	321	30	581
Glass. Making crystalline	E. A. Savary	332,441	Dec. 15	1745	33	1323	
Glass-melting furnace	G. H. Benjamin	312,422	Feb. 17	1316	363	30	609
Glass-molds. Apparatus for cooling	G. W. Blair and W. Buttler	325,724	Sept. 8	687	172	32	1148
Glass mosaic for decorating rooms and other purposes	R. Nielson	313,099	Mar. 3	81	21	30	793
Glass or mica in sheet-metal structures. Securing	C. A. Fletcher and W. H. Wilder	325,523	Sept. 1	417	103	32	1096
Glass ornamentation	G. A. Macbeth	324,133	Aug. 11	982	270	32	713
Glass ornamentation for imitation of fine polished stone	T. E. Strickland	327,348	Sept. 20	2881	752	32	1568
Glass-ornamenting	E. L. Brown	315,472	Apr. 14	629	180	31	128
Glass pendants. Manufacture of	W. Somerville	314,069	Mar. 17	1401	365	30	1055
Glass plate for making medicinal tablets. Perforated	J. E. Schreck	315,173	Apr. 7	259	63	31	47
Glass plates. Mold for making perforated	J. E. Schreck	315,172	Apr. 7	258	62	31	47
Glass roller for skates, casters, &c., and producing the same	S. C. Mendenhall	314,969	Mar. 31	2631	696	30	1314
Glass rollers. Manufacture of	S. C. Mendenhall	314,970	Mar. 31	2633	697	30	1314
Glass rollers. Manufacture of	S. C. Mendenhall	314,971	Mar. 31	2635	697	30	1315
Glass-rolling machinery	F. Mason and J. Conqueror	326,764	Sept. 22	2089	542 543	32	1419
Glass shade-holders. Manufacture of	T. B. Atterbury	313,399	Mar. 3	506	132	30	871
Glass surfaces and signs. Decoration of silvered	R. Stern	322,864	July 21	1963	520	32	373
Glass through the annealing-oven. Apparatus for conveying sheets of	B. Mayer	312,141	Feb. 10	917	249	30	586
Glass tile and making the same	J. Haley	331,395	Dec. 1	196	51	33	1033
Glass-tube cutter	S. G. Lawson	333,325	Dec. 29	2867	749	83	1536
Glass-tube cutter	E. K. Rollins	310,914	Jan. 20	966	263	30	193
Glass tubing. Manufacturing	W. L. Jukes	321,369	June 30	3256	869	31	1675
Glass vessels. Screw-collar for	J. Spruce and J. Tonks	327,338	Sept. 29	2828	747	32	1561
Glass. Window	J. G. Pennycook	312,220	Feb. 17	1149	314	30	577
Glass. Window and other	M. Magrath	319,592	June 9	852	226	31	1214
Glassware	B. Bennett	315,462	Apr. 14	670	174	31	125
Glassware. Crimping device for	B. Bennett (Reissue)	10,609	June 18	2066	543	31	1438
Glassware. Device for holding and shaping	J. Northwood	327,406	Sept. 29	2956	773	32	1581
Glassware. Machine for printing on	G. Leuffgen	313,346	Mar. 3	438	110 111	30	857
Glassware. Manufacture of handled	H. Schulze-Berge	316,836	Apr. 28	2570	672 673	31	466
Glassware. Manufacture of ornamental	D. C. Ripley	319,036	June 12	115	31	31	1069
Glassware. Mold for pressed	D. C. Ripley, A. H. Heisey, and G. B. Swift	331,824	Dec. 8	859	220	33	1159
Glassware. Ornamenting the handles of articles of	J. Haley	328,482	Oct. 20	1272	330	33	247
Glazing	J. S. Dignam	320,915	June 30	2674	710	31	1567
Glazier's point	T. W. Taylor	324,499	Aug. 18	1498	407	32	814
	H. W. Eames	330,228	Nov. 17	1858	502	33	875

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Glazier's point	E. J. Van Reyper	330,444	Nov. 17	1379	367	33	783
Globe	P. P. Montgomery	313,752	Mar. 10	974	251	30	967
Globe. Folding	L. D. Washington	316,087	Apr. 21	1335	401	31	221
Globe. Tellurian	T. H. Costello	317,307	May 5	511	130 131	31	617
Glove	R. F. Bartel	325,899	Sept. 8	901	227	32	1189
Glove	J. Blomstrom	323,263	July 28	2522	670	32	483
Glove	G. H. Rawlings	325,968	Sept. 8	992	253	32	1306
Glove	L. E. Vallier	328,261	Oct. 13	973	253	33	185
Glove and glove-fastening	J. I. McMartin	326,770	Sept. 22	2096	544	32	1421
Glove and notion holder	C. H. Freaner and S. Golding	320,657	June 16	1490	393	31	1335
Glove. Boxing	A. R. Runsey	320,972	June 30	2752	731	31	1581
Glove-fastener	E. M. Chapman	330,871	Nov. 24	1992	521	33	895
Glove-fastener	S. Florsheim	325,524	Sept. 1	418	183	32	1096
Glove-fastener	W. S. Frost	310,573	Jan. 3	532	146	30	108
Glove-fastener	G. P. Ross	319,030	June 2	119	33	31	1070
Glove-fastener	W. M. Williams	331,266	Nov. 24	2465	665	33	993
Glove-fastening	J. Blomstrom	311,101	Jan. 20	1242	340	30	243
Glove-fastening	J. Blomstrom	316,325	Apr. 21	1850	489	31	348
Glove-fastening	J. C. Field	323,926	Aug. 11	705	198	32	663
Glove-fastening	A. C. Mather	330,501	Nov. 17	1447	387	33	797
Glove-fastening	G. W. Prentice	321,050	June 30	2250	758	31	1609
Glove-fastening	W. S. Richardson	325,698	Sept. 8	638	162	32	1140
Glove-fastening	W. S. Richardson	325,699	Sept. 8	639	163	32	1140
Glove-fastening	A. Traver and H. B. Pierson	332,763	Dec. 22	2209	582	33	1412
Glove-fastening	J. H. Vantassel	311,391	Jan. 27	1658	453	30	325
Glove-holder. Self-closing	C. Connolly	326,104	Sept. 15	1172	299	32	1246
Glove. Husking	E. F. Rate	321,529	July 7	170	46	32	34
Glove-lacing	E. Forbes	317,528	May 12	812	209	31	679
Glove or mitten	S. Helfaer	321,497	July 7	117	31	32	23
Glove or mitten. Felt	W. P. Hyatt	331,501	Dec. 1	347	94	33	1060
Glove or shoe fastening	E. W. A. Meyer	315,811	Apr. 14	1157	303	31	217
Gloves, &c. Fastening device for	G. E. Danforth	331,946	Dec. 8	1041	270	33	1194
Gloves, &c. Fastening for	H. Bauer	321,940	July 14	734	192	32	142
Gloves, garters, &c. Fastening device for	E. Griswold	314,174	Mar. 17	1542	404	30	1079
Glue	R. Gabler and T. Pilz	318,367	May 19	1927		31	895
Gluing and staining machine	W. Rabbe	320,816	June 23	2532	671	31	1335
Gluing slate and other frames. Machine for	C. C. Shepherd	312,391	Feb. 17	1276	352	30	602
Gluing-table	J. H. Clemons and J. W. Bower	312,433	Feb. 17	1331	367	30	612
Glycerine from fatty matters. Extracting	B. T. Babbitt	316,104	Apr. 21	1565	407	31	296
Gold and other metallic amalgam	S. P. Buatt	324,650	Aug. 18	1707		32	854
Gold and silver from pulverized ores. Machine for extracting	J. L. Hayward	320,655	June 23	2341	619	31	1498
Gold and vulcanite. Uniting	J. H. Wood	325,469	Sept. 1	338		32	10
Gold from its chlorides. Apparatus for the electro-deposition of	E. P. Thompson	317,246	May 5	432	108	31	602
Gold from ores. Electrical apparatus for separating	W. J. Tauner	328,532	Oct. 20	1335	346 347	33	259
Gold from its ores by chlorination. Apparatus for the separation of	E. P. Thompson	323,755	Aug. 4	485	137	32	614
Gold from its ores by electro chlorination and deposition. Apparatus for the separation of	E. P. Thompson	317,245	May 5	427	107	31	601
Gold from placer mines. Apparatus for extracting	G. M. Levette	324,856	Aug. 25	1987	546	32	915
Gold, &c., from pulverized ores. Machine for extracting	J. L. Hayward	329,832	Nov. 3	533	141	33	608
Gold from sand, &c. Apparatus for separating fine	I. R. McKinney	321,623	July 7	291	76	32	56
Gold-leaf. Bookbinding	E. Ewing	311,823	Feb. 3	465		30	436
Gold-saving apparatus	V. P. Yelmini	319,657	June 9	931	246	31	1229
Gold-separator	S. C. Oliphant	331,649	Dec. 1	610	151	33	1164
Gold, silver, &c. Composition for cleaning and polishing	O. W. Young	327,426	Sept. 29	2978		32	1585
Gold, silver, and copper from their ores. Extracting	J. W. Simpson	323,222	July 28	2473		32	474
Gold, silver, and lead from ores. Extracting	W. E. Harris	312,547	Feb. 24	1890		30	722
Gong. Electric	J. P. Tirrell	328,982	Oct. 27	1970	512	33	381
Gong-striker. Electro-mechanical	L. H. McCullough	316,476	Apr. 28	2073	542	31	393
Goods to accord with the price paid therefor. Apparatus for automatically delivering prepaid	J. G. Sandeman and P. Everitt	323,213	July 28	2461	654	32	472
Goose-call	D. S. Fuller	333,094	Dec. 22	2666	699	33	1495
Gopher-trap	A. S. Hallidie	326,864	Sept. 22	2234	583	32	1446
Governor	C. M. Giddings	319,696	June 9	979	259	31	1237
Governor	L. and A. Y. Gray	326,497	Sept. 15	1694	442	32	1342
Governor	B. Jackson	313,593	Mar. 10	761	200	30	928
Governor	J. Judson	315,632	Apr. 14	915	240	31	170
Governor	W. B. Mason	312,137	Feb. 10	909	248	30	525
Governor	W. B. Mason	312,138	Feb. 10	912	248	30	525
Governor	C. Prüssmann	317,850	May 12	1232	326	31	757
Governor	J. Scott	320,005	June 16	1423	374	31	1323
Governor	A. Therkelsen and J. G. A. Braun	316,848	Apr. 28	2591	677	31	489
Governor. Ball	R. McKenna	310,538	Jan. 13	864	234	30	169
Governor. Combined pressure and speed	J. Clayton	315,244	Apr. 7	371	92	31	67
Governor. Electric marine	B. J. Carroll	318,417	May 19	1990	536	31	906
Governor. Electric steam	E. H. Amet	326,933	Sept. 29	2332	611	32	1471
Governor. Engine	B. Brazelle	313,168	Mar. 3	160	44	30	810
Governor. Engine	D. P. Davis	317,098	May 5	221	56	31	564
Governor for controlling steam-engines. Electric	P. W. Willans	329,112	Oct. 27	2158	559	33	413
Governor for supplying gaseous fuel	A. Darling	328,468	Oct. 20	1256	326	33	244
Governor for vessels. Pendulum engine	M. C. Hawkins	330,699	Nov. 17	1694	457	33	846
Governor. Marine-engine	A. Fuller	323,314	July 28	2608	694	32	497
Governor. Marine-engine	R. J. Smith	314,889	Mar. 31	2516	667	30	1295
Governor. Steam	J. Killip	318,120	May 19	1598	427	31	834
Governor. Steam	J. Killip	329,478	June 23	2106	558	31	1454
Governor. Steam	T. Malcolmson. (Reissue)	10,359	Feb. 10	1067	293	30	554
Governor. Steam	J. D. McRae	326,441	Sept. 15	1622	426	32	1330
Governor. Steam and fluid engine	A. L. Ide	319,260	June 2	305	105	31	1122

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dis.	Vol.	Page.
Governor. Steam-engine	A. J. Allen	319,658	June 9	933	247	31	1229
Governor. Steam-engine	P. Armington	327,138	Sept. 29	2591	075	32	1516
Governor. Steam-engine	R. M. Beck	317,925	May 5	483	192	31	611
Governor. Steam-engine	R. M. Beck	318,832	May 26	2579	686 687	31	1019
Governor. Steam-engine	J. Begtrup	326,092	Sept. 15	1160	296 297	32	1244
Governor. Steam-engine	G. W. Bigelow	310,363	Jan. 6	272	75	30	52
Governor. Steam-engine	G. H. Corliss	324,459	Aug. 18	1436	392	32	805
Governor. Steam-engine	F. Foadick	323,411	Aug. 4	38	10	32	530
Governor. Steam-engine	A. E. Hardy	314,528	Mar. 24	2018	539	30	1177
Governor. Steam-engine	J. Kaiser	333,180	Dec. 29	2792	715	33	1511
Governor. Steam-engine	J. Kelly	322,456	July 21	1411	369	32	973
Governor. Steam-engine	A. I. Loop	330,411	Nov. 17	1333	355	33	775
Governor. Steam-engine	J. M. Mason	311,770	Feb. 3	402	109	30	494
Governor. Steam-engine	J. Moore	322,956	July 28	2099	559	32	405
Governor. Steam-engine	M. R. Moore	318,722	May 26	2481	664	31	1004
Governor. Steam-engine	T. N. Perrine	312,893	Feb. 24	1949	534	30	732
Governor. Steam-engine	J. W. Sargent	316,490	Apr. 28	2091	547	31	306
Governor. Steam-engine	F. Schumann	318,663	May 26	2321	690 691	31	975
Governor. Steam-engine	J. Scott	320,004	June 16	1491	373	31	1322
Governor. Steam-engine	A. Thierfelder	317,592	May 12	894	229	31	663
Governor. Steam-engine	J. W. Thompson	310,479	Jan. 6	400	111	30	77
Governor. Steam-engine	J. W. Thompson	314,353	Mar. 24	1781	474	30	1134
Governor. Steam-engine	M. Ulrich	332,764	Dec. 22	2210	522	33	1412
Governor. Steam-engine speed.	E. Hill	319,251	June 2	385	102	31	1180
Governor. Steam-power.	C. V. Lude	320,579	June 23	2613	693	31	1551
Governor. Valve.	H. F. Hodges	322,041	Oct. 27	2057	533	33	396
Governors. Safety attachment for steam-engine.	T. R. Pickering	318,289	May 19	1811	485	31	874
Grade-delineator. Automatic.	B. Faymonville	321,591	July 7	249	66	32	48
Grader and leveler. Road.	J. Skinner	324,178	Aug. 11	1046	285	32	794
Grader or road-scraper.	B. R. Abbott	321,269	June 30	1313	834	31	1651
Grader. Road.	C. A. Calaway	325,156	Aug. 25	2376	654	32	967
Grading and ditching machine.	S. Pennock	318,019	May 19	1468	393	31	809
Grading-machine.	B. Tobias	327,740	Oct. 6	312	80	33	55
Grading machine. Road.	P. B. Sheldon	323,536	Aug. 4	200	58, 59	32	559
Grading machine. Road.	J. D. Adams	310,165	Jan. 6	3	1, 2	30	3
Grading machine. Road.	J. D. Adams. (Reissue.)	10,666	Dec. 1	757	191 192	33	1133
Grading machine. Road.	W. R. Ferguson	319,474	June 9	682	183 184	31	1184
Grading machine. Road.	R. Long	312,490	Feb. 17	1403	387	30	624
Graduating area upon mathematical and other instruments.	J. M. Clark and C. A. L. Totten	329,139	Oct. 27	2195	569	33	490
Grain-adjuster	H. Tuttle	326,464	Sept. 15	1655	432	32	1335
Grain-adjuster for binders	A. Nicholas	312,576	Feb. 17	1534	419	30	649
Grain and seed separator and grader.	W. Tate	319,528	June 9	758	203	31	1197
Grain and seed separator. Recleaner for	A. Miller	322,465	July 21	1423	379	32	275
Grain and the storage thereof. Apparatus for transferring	L. Smith	321,769	July 7	491	130	32	92
Grain-bagging apparatus.	V. and E. Laplace	318,633	May 26	2280	609	31	907
Grain-bin	J. Mason	322,305	July 14	1199	315	32	228
Grain-bin ventilator	B. F. Harrell	325,170	Aug. 25	2395	659	32	991
Grain-binder	J. F. Appleby	332,985	Dec. 22	2506	663	33	1467
Grain-binder	J. F. Appleby	332,986	Dec. 22	2508	663	33	1467
Grain-binder	R. Brown	314,102	Mar. 17	1448	379	30	1063
Grain-binder	R. Brown	317,292	May 5	495	124 125	31	614
Grain-binder	C. Colahan	315,479	Apr. 14	697	122 123 124	31	130
Grain-binder	C. Colahan	315,480	Apr. 14	699	124 125	31	130
Grain-binder	C. Colahan	315,481	Apr. 14	701	125	31	131
Grain-binder	O. Cooley	321,692	July 7	380	101	32	71
Grain-binder	L. Fecher and W. F. Olin	315,754	Apr. 14	1067	285	31	904
Grain-binder	J. E. Giles	322,439	July 21	1381	369 363	32	968
Grain-binder	D. N. Green	331,493	Dec. 1	336	91	33	1058
Grain-binder	P. F. Hodges	315,288	Apr. 7	423	106	31	77
Grain-binder	P. F. Hodges	315,289	Apr. 7	424	107	31	77
Grain-binder	P. F. Hodges	315,290	Apr. 7	426	107 108	31	77
Grain-binder	M. M. Hooton	327,086	Sept. 29	2526	659 660 661	32	1506
Grain-binder	M. G. Hubbard, Jr.	323,534	Dec. 15	1876	491 492	33	1345
Grain-binder	G. G. Hunt and G. H. Steward	318,257	May 19	1772	473 474	31	867
Grain-binder	H. R. Ingledue	311,492	Feb. 3	41	11 12 13	30	357
Grain-binder	E. W. Jenkins	324,771	Aug. 18	1861	512 513	32	885
Grain-binder	L. G. Kemp and P. Ross	331,142	Nov. 24	2278	618	33	960
Grain-binder	I. Lancaster	316,272	Apr. 21	1782	469	31	336
Grain-binder	I. Lancaster	324,122	Aug. 11	966	266 267	32	710
Grain-binder	J. C. McLachlan	326,233	Sept. 15	1354	350	32	1279
Grain-binder	C. Miller	223,353	July 28	2664	710	32	507
Grain-binder	L. Miller	322,951	July 28	2092	556	32	404

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Grain-binder	F. Ogden	312,154	Feb. 10	947	{ 957 958 959 960	30	532
Grain-binder	S. C. Shepard	322,015	July 14	832	{ 218 429 430	32	160
Grain-binder	A. Stark	330,634	Nov. 17	1807	{ 500 501 502	33	827
Grain-binder	D. Strunk	318,321	May 19	1866	{ 371 372	31	883
Grain-binder	D. Strunk	332,318	Dec. 8	1436	{ 372 373	33	1262
Grain-binder	G. Tyler	315,091	Apr. 7	140	33, 34	31	27
Grain-binder	J. Wedlake and L. M. Jones	323,001	July 28	2165	575	32	417
Grain-binder	C. M. Young	322,770	July 21	1827	483	32	348
Grain-binder. Automatic	P. F. Hodges	312,469	Feb. 17	1381	{ 382 383	30	621
Grain-binder. Automatic	H. A. and W. M. Holmes	329,560	Nov. 3	188	51	33	541
Grain-binder band-securing mechanism	J. S. Davis	319,963	June 16	1361	358	31	1312
Grain-binder cord-holder	J. O. Jackman	331,404	Dec. 1	209	55	33	1035
Grain-binder-cord alarm	W. M. Whiting	317,905	May 12	1310	350	31	772
Grain-binder knot-tyer	C. Reeb	321,639	July 7	311	82	32	59
Grain-binder knotter	E. Ebl	323,126	July 28	2337	{ 620 621	32	449
Grain-binder knotting mechanism	J. F. Appleby	312,790	Feb. 24	1814	498	30	709
Grain-binder knotting mechanism	J. F. Appleby	315,216	Apr. 7	339	82	31	61
Grain-binder knotting mechanism	J. F. Appleby	319,167	June 2	283	75	31	1099
Grain-binder knotting mechanism	C. P. Shufelt	318,609	May 26	2524	674	31	1010
Grain-binders. Cord-holder for	W. R. Baker	324,353	Aug. 18	1296	352	32	780
Grain-binders. Cord-holder for	N. T. Remv	314,056	Mar. 17	1384	362	30	1051
Grain-binders. Cord-spool and tension device for	I. H. Russell	316,917	Apr. 28	2694	701	31	508
Grain-binders. Discharging mechanism for	S. V. Kennedy	316,550	Apr. 28	2162	{ 568 569	31	411
Grain-binders. Grain-carrier for low-down	J. F. Appleby	323,386	Aug. 4	4	1, 2	32	523
Grain-binders. Mechanism for actuating	J. S. Davis	311,420	Jan. 27	1700	463	30	332
Grain-binding machine	W. Butterfield	312,428	Feb. 17	1326	366	30	611
Grain-binding machine	G. Esterly	327,031	Oct. 6	550	144	33	99
Grain-binding machine	W. H. Fritts	324,464	Aug. 18	1441	394	32	806
Grain-binding machine	J. F. Gordon	320,348	June 16	1905	{ 502 503 504 505	31	1409
Grain-binding machine	G. G. Hunt	331,883	Dec. 8	944	244	33	1175
Grain-binding machine	S. L. McColloch	315,528	Apr. 14	767	{ 203 204	31	143
Grain-binding machines. Bundle-carrier for	J. Van De Water	326,694	Sept. 22	1966	517	32	1400
Grain by means of air-currents. Apparatus for drying	A. A. Latcha	318,269	May 19	1731	479	31	870
Grain-cleaner	D. Beet	313,911	Mar. 17	1197	311	30	1016
Grain-cleaner	F. M. Lynett	315,523	Apr. 14	759	201	31	142
Grain-cleaner	L. O. and L. E. Stevens	320,013	June 16	1431	376	31	1324
Grain cleaner and grader	S. R. Backus	323,099	July 28	2306	609	32	443
Grain cleaning and drying machine	J. Ritchie	316,063	Apr. 21	1510	392	31	285
Grain-cleaning machine	M. D. Beardslee	315,996	Apr. 21	1417	368	31	209
Grain-cleaning machine	J. D. and H. Hasselbusch	314,123	Mar. 17	1479	{ 385 386	30	1068
Grain-cleaning machine	H. Lampman	317,655	May 12	976	252	31	703
Grain-cleaning mill	H. B. Balch and F. Burt	316,722	Apr. 28	2412	628	31	457
Grain-conveyers and attachments. Pneumatic apparatus for	B. F. Goodrich and L. Smith	323,317	July 28	2612	695	32	493
Grain-conveyers. Mouth-piece for pneumatic lifting apparatus for	L. Smith	323,324	July 28	2475	657	32	474
Grain-cutting machine	W. Eberhard	313,483	Mar. 10	619	161	30	901
Grain cutting or mowing machines. Cutting apparatus for	J. Burke	324,651	Aug. 18	1708	471	32	855
Grain-drier	G. Cottrell	322,092	July 14	935	242	32	179
Grain-drier	G. H. Diehl	318,704	May 26	2375	633	31	985
Grain-drier	G. H. Immendorf	331,138	Nov. 24	2272	016	33	950
Grain-drier	E. W. Johnson	315,508	Apr. 14	732	194	31	137
Grain-drier	J. C. Klauder	328,788	Oct. 20	1679	437	33	321
Grain-drier	J. Milne	329,198	Oct. 27	2279	{ 500 521	33	435
Grain-drier	D. E. Sibley	323,321	July 28	2472	657	32	474
Grain-drier	J. R. Stiller	324,737	Aug. 18	1814	501	32	876
Grain-drier	H. Stollwerck	324,182	Aug. 11	1051	287	32	726
Grain-drier	A. Wolcott	329,422	Oct. 27	2618	{ 475 476	33	497
Grain-drier	S. E. Worrell	333,188	Dec. 29	2800	733	33	1524
Grain-drill	G. W. Altland	319,659	June 9	934	247	31	1229
Grain-drill	J. L. Ashurst	325,583	Sept. 1	488	192	32	1109
Grain-drill	H. C. Beebe	321,273	June 30	3135	835	31	1651
Grain-drill	G. G. Blunt	314,993	Apr. 7	9	3	31	4
Grain-drill	A. D. Clark	313,808	Mar. 10	1047	268	30	980
Grain-drill	W. C. Downey	315,260	Apr. 7	388	97	31	70
Grain-drill	W. H. Dysinger	331,229	Nov. 24	2405	651	33	983
Grain-drill	W. P. Elam	325,512	Sept. 1	401	98	32	1092
Grain-drill	S. B. Hart	323,327	July 28	2627	609	32	501
Grain-drill	A. C. Hendricks	324,110	Aug. 11	948	261	32	707
Grain-drill	J. F. Keller	326,748	Sept. 22	2066	537	32	1416
Grain-drill	J. O. Marks	332,019	Dec. 22	2415	639	33	1451
Grain-drill	J. M. Westcott	311,397	Jan. 27	1664	454	30	326
Grain-drill	H. R. Wolfe	322,669	July 21	1693	449	32	325
Grain-drill	N. B. Wood	311,051	Jan. 20	1165	{ 318 319	30	229
Grain-drill agitator	J. B. Cottom	312,975	Feb. 24	2051	500	30	751
Grain-drill attachment	W. C. Lathrop	323,187	July 14	1062	275	32	202

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Grain-drill draft mechanism	J. F. Keller	313,341	Mar. 3	431	109	30	886
Grain-drill. Fertilizing	J. F. Keller	318,478	May 26	2066	558	31	929
Grain-drill fluke	P. M. Gundlach	329,036	Oct. 27	2051	532	33	395
Grain-drill, seed-sower, fertilizer-distributor, and roller. Combined	T. R. Crane	331,687	Dec. 1	668	165	33	1116
Grain-drill-tooth attachment	J. Outram	323,953	Aug. 11	737	906	32	669
Grain-drill tooth or hoe	G. W. Kirkpatrick	332,717	Dec. 22	2152	568	33	1401
Grain-drills. Force-feed fertilizer attachment for	S. B. Hart	323,326	July 28	2625	698	32	501
Grain. Drying	D. M. Bunnell	322,222	July 14	1137	297	32	216
Grain. Drying	H. I., P. F., and H. G. Chase	322,257	July 14	1142	298	32	217
Grain. Elevating, conveying, purifying, and drying	J. A. Latcha	318,377	May 10	1942	524	31	698
Grain-elevator	G. S. Bricker	329,710	Nov. 3	384	98	33	578
Grain-elevator	C. Hayes	317,353	May 5	576	148	31	629
Grain elevator and cleaner	F. M. Williams	318,674	May 26	2337	624	31	978
Grain-elevator and transfer apparatus. Pneumatic	L. Smith	323,226	July 28	2478	638	32	475
Grain-elevator. Pneumatic	R. W. Milbank	310,905	Jan. 20	952	260	30	191
Grain force-feeding machine	J. P. Warner	315,193	Apr. 7	302	72	31	54
Grain for fermentation. Preparing whole	J. W. Kittler	330,334	Nov. 10	1212	324	33	746
Grain from vehicles. Device for unloading	J. H. Brown	311,468	Feb. 3	10	3	30	350
Grain, &c. Gradual-reduction machine for	W. D. Gray	311,829	Feb. 3	473	129	30	438
Grain-granulating machine	G. Malcolm	320,466	June 23	2116	557	31	1455
Grain-huller	F. Burckhardt	313,784	Mar. 17	1301	339	30	1035
Grain-huller	F. Burckhardt	313,989	Mar. 17	1304	340	30	1036
Grain-hulling mill	D. Uhlhorn, Jr.	322,080	July 14	921	238	32	176
Grain. Machine for the reduction of	H. F. Saint Requier	332,006	Dec. 8	1123	293	33	1908
Grain-meter	J. Will	319,160	June 2	277	73	31	1098
Grain-meter	E. N. Williamson	315,585	Apr. 14	854	225	31	158
Grain-meter. Oscillating	G. B. Howland	323,509	Aug. 4	166	49	32	553
Grain, &c., on to an elevated platform. Apparatus for raising and delivering	F. Ley	329,657	Nov. 3	310	79, 80	33	564
Grain. Reducing	A. C. Nagel, R. H. Kaemp, and A. W. F. G. Linnenbrügge.	310,709	Jan. 13	707	192	30	140
Grain-reducing apparatus	A. J. Williams	318,585	May 26	2227	595	31	956
Grain-register	J. Martin and P. T. Baker	319,594	June 9	854	227	31	1214
Grain sacking, weighing, and registering machine	G. H. Caughrean	330,918	June 16	1703	452	31	1374
Grain-scourer	M. D. Beardslee	315,997	Apr. 21	1419	369	31	270
Grain-scourer	W. A. Cockrell	319,788	June 9	1107	294	31	1260
Grain-scourer	G. S. Cranson	329,365	Oct. 27	2529	652	33	481
Grain-scourer	G. A. Dawson	313,712	Mar. 10	911	237	30	956
Grain-scourer	G. B. Gray	327,390	Sept. 29	2456	766	32	1577
Grain-scourer	L. J. Harvey	323,035	July 28	2218	586	32	425
Grain-scourer	J. McGill	333,420	Dec. 29	3115	813	33	1580
Grain-scourer	M. McMahon	331,074	Nov. 24	2173	590	33	942
Grain-scourer	A. L. Teator	310,470	Jan. 6	396	110	30	76
Grain-scourer and separator	G. S. Cranson	328,385	Oct. 13	1151	297	33	217
Grain scouring and cleaning machine	A. G. Deobold	325,919	Sept. 8	928	234	32	1194
Grain scouring and cleaning machine	H. Dietz	314,439	Mar. 24	1891	505	30	1156
Grain scouring and cleaning machine	T. Ingles	319,609	June 9	1220	337	31	1290
Grain-screen	S. H. Bills	327,061	Sept. 29	2494	651	32	1500
Grain-screen	D. D. Mook	312,744	Feb. 24	1755	492	30	699
Grain screen or separator	F. Wulfert	327,030	Sept. 29	2480	648	32	1497
Grain-separator	H. Bailey	331,468	Dec. 1	308	82	33	1053
Grain-separator	G. Brooks and S. B. Piko	324,454	Aug. 18	1429	391	32	804
Grain-separator	R. M. Cochran	332,786	Dec. 22	2236	590	33	1418
Grain-separator	A. T. Hawley	331,967	Dec. 8	1068	277	33	1198
Grain-separator	J. F. Henderson	317,782	May 12	1140	302	31	740
Grain-separator	I. Hees	322,820	July 21	1896	503	32	361
Grain-separator	E. Huber	320,356	June 16	1927	508	31	1412
Grain-separator	J. Lucas	317,813	May 12	1182	314	31	748
Grain-separator	W. H. Mercer	317,827	May 12	1204	319	31	752
Grain-separator	J. M. Smith	329,602	Nov. 3	245	63, 64	33	552
Grain-separator	J. S. Upton	318,635	May 26	2556	680	31	1015
Grain separator and cleaner	L. Lockwood	311,904	Feb. 10	598	163	30	467
Grain separator and cleaner	E. Sherman	310,734	Jan. 13	735	900	30	146
Grain separator and scourer	J. Damp	311,727	Feb. 3	344	95, 96	30	414
Grain separator and smutter. Combined	H. L. Martin	312,369	Feb. 17	1249	344	30	596
Grain separator blast-regulator	J. Grube	314,668	Mar. 31	2202	525	30	1257
Grain-separator straw-stacker	L. A. Chase	318,695	May 26	2364	631	31	963
Grain-separators, &c. Blast-regulator for	J. Grube	312,592	Feb. 24	2078	566	30	756
Grain-separators. Measuring, sacking, and registering attachment for	J. Forrest	310,503	Jan. 6	432	119	30	84
Grain-shoveling mechanism	J. S. Metcalf	319,988	June 16	1399	368	31	1319
Grain-shovels. Device for operating power	J. Bradford	317,083	May 5	902	51	31	560
Grain-stack protector	F. Schauer	328,071	Oct. 13	737	192	33	140
Grain-transfer apparatus. Mouth-piece for pneumatic	L. Smith	323,925	July 28	2477	658	32	474
Grain-trier	T. Meylor	323,057	July 28	2249	694	32	439
Grain-winnower	A. Strott	312,929	Feb. 24	1903	545	30	741
Graining composition	T. Head	321,295	June 30	3162	545	31	1657
Graining-machine	J. Decker	312,260	Feb. 17	1095	302	30	567
Graining wood	G. H. Hulmes and W. Shope	320,339	June 16	1932	513	31	1413
Graining wood. Composition for	A. Smith and P. A. Zelle	328,073	Oct. 13	740	33	30	140
Grape crushing and pressing machine	I. Thayer	318,640	June 9	916	242	31	1225
Grape stemmer and crusher	A. David	320,049	June 16	1478	390	31	1333
Grape stemmer and crusher	G. Johnston and E. G. Smith	327,693	Oct. 6	258	64	33	45
Grapple	G. H. Spencer	322,019	July 14	841	219	32	161
Grapple for lifting and moving barrels	A. Flansburgh	311,478	Feb. 3	23	7	30	353
Grappling-bucket	W. G. Thompson	321,158	June 30	2992	794	31	1025

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Grapp'ing-bucket.....	W. G. Thompson.....	321,159	June 30	2994	794	31	1625
Grapp'ing-fork.....	M. W. Chamberlain.....	326,953	Sept. 29	2360	617	32	1476
Grapp'ing or holding device.....	M. T. Wyatt.....	331,302	Dec. 1	148	38	33	1024
Grate.....	P. E. Blow.....	313,222	Mar. 3	354	88	30	841
Grate.....	W. H. Browne.....	331,031	Nov. 24	2122	575	33	932
Grate.....	E. Card.....	314,240	Mar. 24	1599	422	30	1100
Grate.....	L. L. Culver.....	326,481	Sept. 15	1673	437	32	1338
Grate.....	J. Duffy.....	329,375	Oct. 27	2544	656	33	484
Grate.....	W. Ernst.....	323,031	July 28	2214	585	32	424
Grate.....	W. L. and W. P. Golder.....	318,720	May 26	2396	639	31	988
Grate.....	J. F. and L. Hess, F. H., J. F., and C. F. Snyder.....	320,783	June 23	2494	660	31	1528
Grate.....	J. W. Houston.....	310,514	Jan. 6	444	123	30	87
Grate.....	W. E. Kelly.....	331,141	Nov. 24	2276	617	33	960
Grate.....	J. L. L. Knox.....	331,067	Nov. 24	2163	587	33	941
Grate.....	W. McClave.....	318,007	May 19	1452	389	31	807
Grate.....	C. L. Riker.....	330,739	Nov. 17	1750	471	33	855
Grate.....	H. C. Williamson.....	313,004	Mar. 17	1186	308	30	1014
Grate and coal cleaner.....	W. J. Lewis.....	328,043	Oct. 13	696	183	33	133
Grate and heater. Combined open.....	W. W. Patton.....	317,006	May 5	104	27	31	541
Grate-bar.....	N. L. Austin.....	311,633	Feb. 3	233	65	30	392
Grate-bar.....	J. B. Crawley.....	312,614	Feb. 24	1581	432	30	667
Grate-bar.....	J. T. Hambay.....	330,694	Nov. 17	1689	455	33	844
Grate-bar.....	J. D. McKinnon.....	321,442	July 7	37	10	32	10
Grate-bar.....	J. B. Miller.....	325,252	Sept. 8	852	214	32	1179
Grate-bar.....	C. F. Palmer.....	311,517	Feb. 3	83	24	30	364
Grate-bar.....	W. J. Sibley.....	312,027	Feb. 10	773	210	30	500
Grate-bar.....	W. Solt, Sr. (Reissue).....	10,670	Dec. 8	1444	373	33	1264
Grate-bar and grate.....	D. S. Richardson.....	320,001	June 16	1417	372	31	1321
Grate-bar. Rocking.....	W. B. Chisholm and J. Walker.....	316,876	Apr. 28	2626	685	31	495
Grate. Combined shaking and dumping.....	T. E. Barrow.....	315,460	Apr. 14	666	173	31	125
Grate. Fire.....	F. Müller.....	329,243	Nov. 3	568	145	33	610
Grate. Fire-place.....	W. R. Belding.....	323,382	Dec. 29	3062	798	33	1571
Grate for burning anthracite coal.....	A. W. Decrow.....	321,585	July 7	240	64	32	47
Grate for burning gas in fire-places.....	W. S. Jarboe.....	329,172	Oct. 27	2237	580	33	428
Grate-front.....	E. A. Jackson.....	310,437	Jan. 6	354	97	30	69
Grate. Portable basket.....	H. Friedrich and C. W. Carson.....	324,102	Aug. 11	939	259	32	705
Grate. Shaking.....	T. J. Graff.....	323,929	Aug. 11	708	198	32	664
Grate. Shaking.....	E. H. Stone.....	323,969	Aug. 11	760	212	32	673
Grate. Shaking and dumping.....	P. Miller.....	318,013	May 19	1462	391	31	808
Grate stove attachment.....	J. M. Seymour.....	317,864	May 12	1254	333	31	761
Grates and fire-places. Stove attachment for.....	J. M. Seymour.....	317,863	May 12	1252	332	31	760
Grates. Shaking attachment for.....	R. S. T. Cissel.....	314,108	Mar. 17	1456	381	30	1064
Grated shovel.....	M. P. C. Hooper.....	316,023	Apr. 28	2254	593	31	428
Grater.....	D. Block.....	314,645	Mar. 31	2176	577	30	1232
Grater.....	A. Eperis and H. Perk.....	331,874	Dec. 8	931	240	33	1172
Grater. Culinary.....	H. Horowitz.....	331,709	Dec. 1	697	172	33	1121
Grater. Vegetable.....	F. C. and H. Keasler.....	332,008	Dec. 22	2405	635	33	1448
Grating. Iron.....	J. S. Adams.....	311,167	Jan. 27	1331	367	30	286
Grating. Window.....	I. Brooke.....	332,188	Dec. 8	1389	359	33	1254
Grating. Window.....	J. W. Showalter and G. W. Manger.....	322,322	July 14	1228	322	32	234
Gravo coffin-receptacle.....	J. H. Robey.....	324,167	Aug. 11	1030	281	32	721
Gravity-separator.....	W. H. Wakeford.....	321,552	July 7	202	53	32	40
Grease-cup.....	F. H. Bolte.....	325,726	Sept. 8	690	172	32	1148
Grease-cup.....	W. Schoendelen.....	314,062	Mar. 17	1392	363	30	1053
Grease-cup. Automatic.....	J. A. Houck.....	312,204	Feb. 10	1021	279	30	545
Grease-trap for sinks.....	J. Reid.....	323,532	Aug. 4	195	57	32	558
Grenade.....	J. L. Ely.....	323,117	Dec. 29	2706	710	33	1508
Grenades. Bracket for hand.....	A. F. Buchanan.....	328,574	Oct. 20	1787	466	33	341
Gridiron.....	C. M. Cooke.....	322,686	July 21	1712	454	32	328
Gridiron.....	L. T. Newell.....	318,493	May 26	2086	544	31	833
Grinding-cylinders. Machine for grooving.....	P. T. Smith.....	328,075	Oct. 13	741	193	33	140
Grinding-machine.....	W. Frech.....	327,934	Oct. 6	554	144	33	99
Grinding-machine.....	E. H. Parks.....	323,473	Dec. 29	3192	534	33	1593
Grinding-machine.....	G. Richards.....	332,003	Dec. 8	1118	291	33	1207
Grinding-machine.....	G. H. Smith.....	329,781	Nov. 3	478	120	33	596
Grinding-mill.....	A. L. and W. T. Anderson.....	322,773	July 21	1833	484	32	349
Grinding-mill.....	J. and W. L. Beall.....	316,936	May 5	9	3	31	524
Grinding-mill.....	W. H. Browne.....	326,264	Sept. 15	1402	365	32	1267
Grinding-mill.....	M. C. Cogswell.....	324,363	Aug. 18	1310	356	32	782
Grinding-mill.....	H. H. Coles.....	318,700	May 26	2370	632	31	984
Grinding-mill.....	H. H. Coles.....	331,683	Dec. 1	663	164	33	1115
Grinding-mill.....	P. T. Couch and C. W. Woolbert.....	317,735	May 12	1071	281	31	727
Grinding-mill.....	H. Cutler.....	328,656	Oct. 20	1521	395	33	291
Grinding-mill.....	B. J. Du Bose.....	332,143	Dec. 8	1339	346	33	1244
Grinding-mill.....	J. J. and E. T. Faulkner.....	330,820	Nov. 24	1933	523	33	896
Grinding-mill.....	J. A. Field.....	314,370	Mar. 24	1803	479	30	1138
Grinding-mill.....	G. W. Rundlett.....	331,087	Nov. 24	2196	595	33	946
Grinding-mill.....	S. C. Schofield.....	310,916	Jan. 20	972	264	30	194
Grinding-mill.....	G. K. Smith.....	324,181	Aug. 11	1050	286	32	725
Grinding-mill.....	G. K. Smith.....	330,934	Nov. 24	2007	542	33	910
Grinding-mill.....	A. W. Straub.....	322,400	July 14	1329	346	32	252
Grinding-mill.....	W. C. Westaway. (Reissue).....	10,634	Aug. 11	1288	349	32	770

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Grinding-mill.	F. Wilson	311,636	Feb. 3	222	63	30	309
Grinding-mill, bolt, and purifier. Combined	C. F. King	324,473	Aug. 18	1452	397	32	808
Grinding-mill for reducing grain, &c.	L. Gathmann	329,729	Nov. 3	409	105	33	583
Grinding-mill. Roller	W. H. Wakeford	310,236	Jan. 6	93	25, 26	30	20
Grinding-mill. Roller	W. H. Wakeford	321,551	July 7	202	53	32	40
Grinding-mill. Roller	F. Wegmann. (Reissue)	10,571	Mar. 10	1101	286	30	922
Grinding-mill. Roller	F. Wegmann. (Reissue)	10,579	Apr. 7	661	170	31	118
					171		
Grinding-mill. Vertical disk	J. T. Case	332,233	Dec. 15	1457	378	33	1273
					379		
Grinding-mill. Vertical disk	J. T. Case	332,234	Dec. 15	1459	379	33	1273
					380		
Grinding-mill. Wet	T. L. Sturtevant	327,501	Sept. 29	3066	799	32	1009
Grinding-mills. Rotary head for	T. L. Sturtevant	324,047	Aug. 11	864	239	32	691
Grinding-mills. Sweep-coupling for	E. M. Wilcox and W. J. Hopkins	313,144	Mar. 3	140	34	30	807
Grinding or crushing mill	T. H. Carlin	333,389	Dec. 29	3069	800	33	1572
					801		
Grinding or polishing surfaces. Wheel for	J. E. Compton	310,799	Jan. 13	816	221	30	109
Grinding-plate. Metallic	E. M. McKee	316,478	Apr. 28	2077	543	31	394
Grinding-ring. Metallic	J. G. Mole	321,045	June 30	2843	756	31	1598
Grinding tools. Machine for	N. Brickell	320,755	June 23	2460	652	31	1522
Grindstone apparatus	J. I. Mettler	313,677	Mar. 17	1151	300	30	1007
Grindstone-frame	J. B. Johnson	321,221	June 30	3071	815	31	1640
Grindstone-frame. Folding	J. Aenis	314,986	Apr. 7	1	1	31	3
Grindstone-shaft	W. W. Coon	332,996	Dec. 22	2532	667	33	1771
Gripping-clamp for lines or reins	G. H. Sackett	331,088	Nov. 24	2197	565	33	946
Gripping implement	G. C. Payne	319,017	June 2	105	28	31	1067
Grist-mill	C. J. Blum	313,166	Mar. 3	178	43	30	899
Grooving and seaming machine	H. H. Franklin	314,822	Mar. 31	2428	641	30	1779
Grub-puller	W. D. Tompkins	328,983	Oct. 27	1979	519	23	381
Guano-distributor	S. H. Bell	310,642	Jan. 13	616	170	30	123
Guano-distributor	B. B. and A. C. Grant	324,833	Aug. 25	1957	537	32	908
Guano-distributor and seed-planter. Combined	J. F. Harrison	325,535	Sept. 1	432	107	32	1009
Guard:							
See Animal-guard.	Hatchway-guard.						
Automatic guard.	Hose-guard.						
Bedstead-guard.	Ink-well guard.						
Belt-guard.	Key-hole guard.						
Bridge-guard.	Loom-shuttle guard.						
Car dust-guard.	Paddle-wheel guard.						
Car-wheel guard.	Pew-guard.						
Car window-guard.	Pump-guard.						
Carving-fork guard.	Razor-guard.						
Cattle-guard.	Razor-blade guard.						
Dental breath-guard.	Saw-guard.						
Fence-guard.	Watch-guard.						
Fork-guard.	Window-guard.						
Guide-box.....	B. Weaver	315,362	Apr. 7	519	132	31	94
					133		
Gun and projectile for throwing life-lines	S. Ingersoll	331,792	Dec. 8	811	206	33	1159
Gun-barrel	G. V. Fosbery	320,303	Oct. 27	2428	689	33	464
Gun barrel. Machine	J. W. Petty	328,713	Oct. 20	1596	416	33	305
Gun-barrels. Machine for boring	H. H. Hackman and T. P. Walter	327,160	Sept. 29	2634	685	33	1522
Gun-barrels. Straightening and annealing	C. E. Bailey	320,613	June 23	2289		31	1426
Gun. Breech-loading	O. W. Horr	323,936	Aug. 11	719	201	33	665
Gun. Cane	E. D. Bean	329,430	Nov. 3	6	2	33	506
Gun-carriage	C. T. M. V. De Bange	331,618	Dec. 1	567	138	33	1066
Gun carriage	F. O. Ekholm	318,238	May 19	1751	468	31	869
Gun-carriage	F. O. Ekholm	318,239	May 19	1752	468	31	863
Gun carriage. Machine	R. Haack	319,241	June 2	374	99	31	1118
					100		
Gun. Compressed-air multiple	L. S. Chichester	310,382	Jan. 6	295	81	30	57
Gun-cotton. Coating	M. Von Förster	315,357	Apr. 7	513		31	93
Gun. Double-barreled	C. G. Bonehill	329,705	Nov. 3	378	96	33	577
Gun-lock. Breakdown	F. Beesley	320,040	June 16	1465	325	31	1331
					326		
Gun. Machine	H. Allender	323,997	Aug. 11	794	221	32	679
Gun. Machine	H. S. Maxim	317,161	May 5	314	79	31	569
Gun. Machine	H. S. Maxim	319,596	June 9	859	227	31	1215
					228		
Gun. Machine	H. S. Maxim	321,513	July 7	144	39	32	28
Gun. Machine	H. S. Maxim	321,514	July 7	151	40	32	29
Gun. Machine	C. H. Palmer	332,741	Dec. 22	2162	576	33	1407
Gun. Machine	J. S. Whitney	311,551	Feb. 3	130	37, 38	30	373
Gun. Magazine	J. M. and M. S. Browning	312,183	Feb. 10	993	271	30	539
Gun. Magazine	J. M. and M. S. Browning	324,296	Aug. 11	1213	330	32	756
					331		
Gun. Magazine	C. Garbe	315,609	Apr. 14	882	232	31	164
Gun. Magazine	J. C. Kelton	313,213	Mar. 3	255	64	30	894
Gun. Magazine	W. J. Kriz	318,268	May 19	1788	479	31	869
Gun. Magazine	D. H. Rice	316,485	Apr. 28	2084	545	31	385
Gun. Magazine	H. Updegraff	325,369	Sept. 1	186	49, 50	32	1049
Gun. Magazine spring	A. J. Benjamin	325,042	Aug. 25	2226	613	32	961
Gun. Magazine spring	S. D. Engle	320,643	June 23	2394	614	31	1494
Gun support. Machine	H. S. Maxim	329,471	Nov. 3	63	17	33	516
Gun-wad	C. R. Poe	320,500	June 23	2136	458	31	1452
Gun-wads. Machine for counting	J. Gardner	320,236	June 16	1728	458	31	1379
Gun-wads. Machine for counting	W. Mason	319,284	June 2	421	113	31	1127
					114		
Guns. Feed-case for magazine	J. C. Kelton	331,244	Nov. 24	2427	657	33	927
Guns in turrets by electricity. System of firing } battery.	T. R. Timby	312,231	Feb. 10	1052	228	30	550
Guns. Loading device for breech-loading	R. J. Gatling	311,974	Feb. 10	702	192	30	46

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dis.	Vol.	Page.
Guns. Lock mechanism for concealed-hammer.	A. Hyde	315,413	Apr. 7	594	152	31	106
Guns. Rifling-machine for heavy.	J. R. Streett	318,894	May 26	2543	678	31	1013
Guns. Safety-lock for concealed-hammer.	F. F. Knous	313,001	Feb. 24	2049	570	30	758
Guns. Spring-seated butt-cap for	H. E. Finney	328,930	Oct. 27	1878	490	33	365
Guns. Support for whaling.	J. J. Havisdie	324,935	Aug. 25	2091	572	32	935
Gunnery.	A. S. Lyman	321,043	June 30	2842	756	31	1508
Gusset. Armhole.	W. Sachs	322,855	July 21	1947	515	32	370
Gusset for the armholes of garments	W. Sachs	329,595	Nov. 3	234	60	33	550
Gutter and spout	L. J. Hardy	326,647	Sept. 22	1897	499	32	1346
Gutter box or trough	F. Axt	320,324	June 16	1880	493	31	1403
Gutter. Cornice	D. Newton	317,841	May 12	1921	323	31	755
Gutters of skylights, roofs, vaults, &c. Support for	J. F. Stuckert	316,413	Apr. 21	1979	520	31	370
Gymnastic performance with rats, birds, &c. Implement for	J. B. Poirano	320,900	June 30	2733	727	31	1578
Gypsum, stucco, or the like. Manufacture and preservation of articles of	M. Dennstedt	314,114	Mar. 17	1462		30	1065
Gypsum. Treating.	W. Manning	326,047	Sept. 8	1093		32	1224
Hacker for chipping pine trees	R. M. Barron	325,480	Sept. 1	355	66	32	1083
Hackling-machine	C. E. Keith	318,750	May 26	2437	653	31	996
Hair. Composition for removing	S. R. Kennedy	330,715	Nov. 17	1712		33	849
Hair-crimper	E. J. Brooks	314,110	Mar. 17	1443	378	30	1062
Hair-crimper	E. J. Brooks	332,483	Dec. 15	1794	479	33	1332
Hair-crimper	S. E. Norton	324,877	Aug. 25	2018	553	32	920
Hair-crimper	D. Snyder	331,916	Nov. 24	2389	646	33	980
Hair-curling pin	J. Schwiebert	317,916	May 5	394	98	31	595
Hair-cutting machine	V. S. Bekofsky	327,512	Oct. 6	4	1	33	3
Hair-dye	D. Stoltz	313,121	Mar. 3	108		30	797
Hair-frizzler	J. Matzinger	323,184	July 28	2426	642	32	465
Hair-frizzling iron	E. Elzenheimer	325,515	Sept. 1	405	99	32	1092
Hair-pins. Machine for making	S. E. Mower	319,301	June 2	443	119	31	1131
Hair-restorative	R. Damann	321,487	July 7	106		32	21
Hair. Tablet for use in removing	S. R. Kennedy	330,716	Nov. 17	1714	462	33	849
Hair-washing apparatus	G. Upton	315,092	Apr. 7	144	34	31	27
Halter	E. Deming	324,237	Aug. 11	1135	309	32	741
Halter	J. Enoch	321,957	July 14	755	197	32	145
Halter	E. R. Michaelis	332,271	Dec. 15	1511	395	33	1282
Halter	H. Wood	331,670	Dec. 1	840	158	33	1110
Halter clamp. Rope	T. Hall	315,614	Apr. 14	895	224	31	166
Hame	G. H. Bartlett	315,891	Apr. 14	1271	331	31	237
Hame	J. Bloedel	321,002	June 30	2790	741	31	1588
Hame	C. H. Fields	326,490	Sept. 15	1682	439	32	1340
Hame	E. G. Latta	332,262	Dec. 15	1501	393	33	1802
Hame	H. Latashaw	312,868	Feb. 24	1925	527	30	728
Hame	G. J. Letchworth	321,122	June 30	2950	792	31	1616
Hame	O. P. Letchworth	311,767	Feb. 3	400	109	30	423
Hame	M. M. McKinnon	329,472	Nov. 3	65	18	33	517
Hame	J. S. Mitchell	324,950	Aug. 25	2112	577	32	939
Hame	H. C. Sargent	318,036	May 19	1492	400	31	814
Hame	N. G. Schwanen	314,063	Mar. 17	1393	364	30	1053
Hame and clip	T. E. Van Ness	324,739	Aug. 18	1815	502	32	877
Hame and clip for harness	C. and F. C. Stoezel	320,600	June 23	2267	599	31	1444
Hame-fastener	J. A. Alexander	332,860	Dec. 22	2336	618	33	1435
Hame-fastener	M. T. Burke	315,714	Apr. 14	1017	268	31	191
Hame-fastener	M. E. Campany	323,853	Aug. 4	602	169	32	636
Hame-fastener	J. D. Crockett	320,336	June 16	1892	497	31	1406
Hame-fastener	C. K. Dickson	313,927	Mar. 17	1232	320	30	1021
Hame-fastener	F. A. Hake	327,258	Sept. 29	2757	715	32	1547
Hame-fastener	W. L. Heinzer and H. B. Gillingham	321,026	June 30	2825	751	31	1595
Hame-fastener	O. T. Jensen	313,336	Mar. 3	425	106	30	855
Hame-fastener	S. Killebrew	327,177	Sept. 29	2661	691	32	1529
Hame-fastener	M. M. McKinnon	332,270	Dec. 15	1500	395	33	1282
Hame-fastener	H. Nadorff	332,409	Dec. 15	1702	446	33	1315
Hame-fastener	F. N. Rankin	332,107	Dec. 8	1282	333	33	1235
Hame-fastener	H. R. Robinson	329,777	Nov. 3	473	119	33	594
Hame. Reversible harness	L. Lewis	327,181	Sept. 29	2666	693	32	1530
Hame-strap-loop connection	H. A. Fontaine and T. A. Koesters	313,582	Mar. 10	742	195	30	925
Hames. Die for manufacturing	J. S. Mitchell	324,951	Aug. 25	2113	578	32	939
Hammer	J. Wolf	323,248	July 28	2508	666	32	480
Hammer and nail-feeding device. Combined	E. Horton	319,719	June 9	1016	269	31	1244
Hammer and nail-feeding device. Combined	E. Horton	331,060	Nov. 24	2152	544	33	939
Hammer. Bush	W. H. Harper	314,291	Mar. 24	1895	452	30	1118
Hammer. Bush	A. Nelson	328,500	Oct. 20	1305	339	31	254
Hammer. Drop	W. Hassel	327,082	Sept. 29	2521	657	32	1505
Hammer. Drop	G. N. Schoenberg	318,305	May 19	1833	482	31	879
Hammer for welding locomotive-frames	J. R. James	332,536	Dec. 15	1846	493	33	1346
Hammer lifter. Drop	A. Williams	310,969	Jan. 20	1054	286	30	208
Hammer. Power	C. M. Brown	327,959	Oct. 13	638	169	33	123
Hammer. Power	M. Deering	312,826	Feb. 24	1866	511	30	718
Hammers. Machine for making claw-ends of	J. Dodge	326,632	Sept. 22	1881	493	32	1383
Hammock	A. L. Adams	333,377	Dec. 29	3057	797	33	1570
Hammock	A. C. Dillman	329,631	Nov. 3	282	73	33	559
Hammock	M. R. Ewing	312,968	Feb. 24	2072	565	36	755
Hammock	P. N. Nemes and T. Crawshaw	329,763	Nov. 3	455	115	33	590
Hammock	W. Schilling and J. Ehrenfeuchter	332,948	Dec. 22	2456	650	33	1459
Hammock	V. P. Travers	330,941	Nov. 24	2016	545	33	912
Hammock and cradle stand	S. Kops	313,002	Feb. 24	2091	570	30	758
Hammock-awning support	J. Hamilton	332,607	Dec. 15	1982	519	33	1364
Hammock-chair	G. B. Hook	330,705	Nov. 17	1701	459	33	847

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Pa. c.
Hammock-frame	J. H. Smith	328,074	Oct. 13	740	193	33	140
Hammock holder or stand	C. L. Rudd and E. J. Manning	320,174	June 16	1643	437	31	1363
Hammock. Invalid	A. Leslie	317,383	May 5	613	157	31	635
Hammock-spreader	W. E. Brock	317,291	May 5	494	194	31	613
Hammock-spreader	W. E. Brock	325,048	Aug. 25	2242	615	32	963
Hammock-spreader	A. Nickerson	320,276	June 16	1789	475	-31	1328
Hammock-spreader	F. A. Thomas	329,600	Nov. 3	358	91	33	573
Hammock-support	J. W. Horner	324,027	Aug. 11	837	231	32	687
Hammock-support	C. A. Lindblom	324,124	Aug. 11	976	269	32	719
Hammock-support	J. H. Ten Eyck	315,354	Apr. 7	508	129	31	92
Hammock-support	V. P. Travers	316,419	Apr. 21	1988	522	31	373
Hammock-support	J. A. Woodworth	332,369	Dec. 15	1049	472	33	1307
Hammock-supporting device	F. A. Fletcher	324,474	Oct. 20	1263	328	33	246
Hammock-supports. Shifting top for	C. W. Acker	316,513	Apr. 23	2119	558	31	402
Hammocks. Head-rest for	A. Nickerson	325,691	Sept. 8	629	159	32	1136
Hammocks. Net attachment for	A. Nickerson	326,321	Sept. 15	1482	386	32	1303
Hammocks, &c. Thimble for	V. P. Travers	318,524	May 26	2139	576	31	943
Hand and arm rest	A. C. Perry	326,326	Sept. 15	1489	388	32	1305
Hand and foot power. Combined	W. H. H. Campbell	318,353	May 19	1912	515	31	891
Hand-bag	J. Lambert	315,393	Apr. 7	441	111	31	80
Hand-bag frames. Handle-cap fastening for	L. B. Prabar	331,651	Dec. 1	615	152	33	1105
Hand-grenade extinguisher. Explosive	A. F. Letson and F. Honegger	318,761	May 26	2455	657	31	999
Hand-power for sewing and other machines	W. C. Harrison	330,021	Nov. 10	813	208	33	664
Hand-rake	W. H. Jones	324,940	Aug. 25	2097	574	32	936
Hand-rake	W. Sellers	319,631	June 9	900	238	31	1223
Handkerchief	J. E. Lee	321,732	July 7	427	114	32	80
Handle:							
See Auger-handle.	Sash-lift handle.						
Bag or satchel handle.	Satchel-handle.						
Bicycle-handle.	Satchel or bag handle.						
Brush-handle.	Shawl-strap handle.						
Bucket-handle.	Shovel-handle.						
Carriage-handle.	Shovel or spade handle.						
Coffin-handle.	Stove-door handle.						
Door-handle.	Surgical-instrument handle.						
Drawer-handle.	Tool-handle.						
Knife-handle.	Trowel-handle.						
Plow-handle.	Valve-handle.						
Pump-handle.							
Handle.	W. W. and F. H. Chilton	311,870	Feb. 10	537	147	30	457
Handle-clamp	C. G. Udell	313,558	Mar. 10	712	186	30	919
Handle for buckets, &c.	J. Ringen	331,447	Dec. 1	275	75	33	1047
Handle for culinary vessels	A. Rosenzweig	315,344	Apr. 7	493	125	31	90
Handle for orange-boxes, &c.	C. W. Bryan	313,051	Mar. 3	16	4	30	723
Handle for package-carriers	C. C. Boyd	329,131	Oct. 27	2186	567	33	418
Handle for pitch-forks and other implements	M. S. Cadwell	327,522	Oct. 6	16	4	33	5
Handle for pot and other covers	G. E. Palmer	310,716	Jan. 13	714	195	30	142
Hanger:							
See Cable-hanger.	Lamp-hanger.						
Card or print hanger.	Picture-hanger.						
Coat-hanger.	Pipe-hanger.						
Door-hanger.	Shaft-hanger.						
Eaves-trough hanger.	Spring-hanger.						
Electric-cable hanger.	Store-door hanger.						
er.	Tobacco-hanger.						
Harmonic recorder. Automatic	E. Gray	329,386	Oct. 27	2561	661	33	487
Harmonica	M. Doerfel	331,949	Dec. 8	1043	271	33	1195
Harmonica-holder	W. H. Dawley	322,586	July 21	1592	420	32	305
Harness	M. W. Amer	326,932	Sept. 29	2331	611	32	1471
Harness	W. S. Bowie	318,445	May 26	2028	547	31	922
Harness	C. W. Burgtorf	316,443	Apr. 28	2035	533	31	368
Harness	R. J. Clark	317,301	May 5	505	129	31	615
Harness	J. W. Regan	313,529	Mar. 10	674	176	30	911
Harness	C. F. Shedd	319,327	June 2	478	129	31	1139
Harness	D. Stensay	329,685	Nov. 3	349	89	33	571
Harness	A. W. Tourgee and L. D. Jennings	333,175	Dec. 29	2782	729	33	1521
Harness	E. E. Whipple	311,399	Jan. 27	1668	455	30	327
Harness and neck-yoke for double teams	R. R. Noyes	310,305	Jan. 6	193	52	30	37
Harness and shaft connection	T. J. Lynch	318,005	May 19	1451	368	31	806
Harness attachment	G. L. Eason	320,546	June 23	2195	580	31	1470
Harness attachment	T. G. Hanbery and J. D. Wall	324,654	Aug. 18	1751	422	32	864
Harness attachment	R. G. Hanford, Jr	318,295	May 26	2636	699	31	1031
Harness attachment	J. Siebel	321,652	July 7	324	86	32	62
Harness back-band	W. Hardy	317,346	May 5	569	145	31	627
Harness. Breast	B. McDevitt	323,436	Aug. 4	67	17, 18	32	535
Harness-breaching stay	H. A. Prickett	328,901	Oct. 20	1828	476	33	349
Harness. Bitting and driving	R. C. Irvine	313,673	Mar. 10	859	223	30	947
Harness-chain connection	J. C. Covert	319,958	June 16	1356	356	31	1311
Harness-check	W. B. Frost	324,765	Aug. 18	1855	511	32	883
Harness. Collar attachment for double	D. B. Smith	316,842	Apr. 28	2584	675	31	486
Harness-crupper	F. K. Hickok	322,609	Dec. 15	1985	520	33	1365
Harness. Device for hanging	T. H. Pendergast	327,585	Oct. 6	110	25	33	20
Harness. Device for suspending	G. C. Hale	330,320	Nov. 10	319	320	33	742
Harness for horses	J. W. Conradt	313,850	Mar. 17	1112	289	30	1000
Harness-hook	J. Wagner	310,235	Jan. 6	92	25	30	90
Harness line-support	D. L. Emry	331,781	Dec. 8	799	202	33	1148
Harness-loop	T. Barrett	327,060	Sept. 29	2493	651	32	1500
Harness-loop	L. A. Hastings	329,038	Oct. 27	2053	533	33	395
Harness-loop	C. F. G. Stender	318,818	May 26	2535	676	31	1012
Harness-loop clamp	J. Wagner	312,679	Feb. 24	1664	458	30	683

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Harness-maker's stitching-horse	J. F. Best	312,073	Feb. 10	826	{ 225 } 226	30	510
Harness or chain attachment.	A. W. Cox	328,292	Oct. 13	1010	263	33	191
Harness-pad	H. A. Fontaine	314,821	Mar. 31	2426	640	30	1279
Harness pad or lining	H. C. Babcock	317,073	May 5	187	47	31	537
Harness-pad press	J. W. Johnson	330,710	Nov. 17	1706	461	33	848
Harness-pads. Die for pressing	C. H. Freeman	315,607	Apr. 14	878	230	31	163
Harness-rack	D. J. Smith	331,565	Dec. 1	447	116	33	1077
Harness-rack	G. F. Walter	312,938	Feb. 24	2004	548	30	743
Harness-ring	Q. Cato and C. A. Spaulding	331,477	Dec. 1	310	85	33	1054
Harness-roselte	J. R. McAdam	317,819	May 12	1195	317	31	750
Harness show-rack	C. C. Schwaner	331,827	Dec. 8	864	{ 221 } 222	33	1160
Harness-straps. Coupling device for	N. W. Hunter	318,116	May 19	1594	426	31	823
Harness-straps. Machine for channeling	T. K. Clark	320,628	June 23	2307	609	31	1491
Harness-support	J. E. Ricker	326,330	Sept. 15	1493	329	32	1305
Harness sweat-pad fastener	R. Brownson	330,772	Nov. 17	1790	462	33	862
Harness thill-holder	J. W. Watts	313,266	Mar. 3	330	82	30	837
Harness-trimming	W. Boese	332,634	Dec. 15	2016	529	33	1370
Harness-trimming	E. N. Crane	312,461	June 9	668	179	31	1181
Harness-trimming	E. N. Crane	319,462	June 9	669	179	31	1181
Harness-trimming	J. G. Eberhard	313,189	Mar. 3	287	56	30	818
Harp. Mouth.	J. McMahon	320,440	June 16	2050	538	31	1435
Harrow	J. H. Barley	319,170	Jan. 6	12	4	30	5
Harrow	J. H. Barley	326,704	Sept. 24	1973	519	32	1402
Harrow	J. E. Barnard and P. Geary	332,681	Dec. 15	1050	510	33	1357
Harrow	W. W. Beard	333,193	Dec. 20	2207	734	33	1525
Harrow	A. H. Bell	325,151	Aug. 25	2371	653	32	966
Harrow	E. R. Bernhamer	322,241	July 14	1126	293	32	214
Harrow	E. T. Bettretton	323,104	July 28	2311	611	32	444
Harrow	J. T. Bird and R. Simons	324,392	Aug. 11	1208	329	32	755
Harrow	M. D. Bronner	320,455	June 23	2081	547	31	1449
Harrow	W. D. Caldwell and J. C. Hendricks	328,108	Oct. 13	786	205	33	149
Harrow	A. Carlin	319,451	June 9	651	176	31	1178
Harrow	G. F. Clark	319,493	Jan. 13	809	219	30	159
Harrow	E. P. Clay	312,254	Feb. 17	1084	299	30	565
Harrow	E. P. Clay	312,255	Feb. 17	1085	299	30	565
Harrow	M. H. Cogswell	323,400	Aug. 4	22	6	32	527
Harrow	S. H. Cook	316,344	Apr. 21	1746	459	31	330
Harrow	B. F. Crow	313,474	Mar. 10	609	157	30	899
Harrow	J. Cullen	325,734	Sept. 8	702	175	32	1151
Harrow	J. Darby	325,735	Sept. 8	703	175	32	1151
Harrow	F. Dawson, Sr.	325,917	Sept. 8	926	234	32	1194
Harrow	L. Deloria	316,755	Apr. 28	2463	642	31	465
Harrow	C. Drew, A. W. Leisner, and P. Nelson	310,499	Jan. 6	428	118	30	83
Harrow	W. H. Dungan	318,095	May 19	1564	419	31	827
Harrow	O. H. Eddy	332,706	Dec. 22	2138	{ 564 } 565	33	1398
Harrow	J. Elliott	328,576	Oct. 20	1401	364	33	271
Harrow	A. C. Evans	319,894	June 9	1256	332	31	1286
Harrow	A. C. Evans	321,805	July 7	540	142	32	100
Harrow	C. Fischer and L. Grother	325,065	Aug. 25	2267	623	32	967
Harrow	P. Gales	320,773	June 23	2421	657	31	1526
Harrow	W. H. Goodman	320,347	June 16	1904	502	31	1400
Harrow	F. M. Hakes	317,768	May 12	1120	295	31	736
Harrow	A. Hirschheimer	325,541	Sept. 1	439	109	32	1100
Harrow	A. Hirschheimer	320,040	Oct. 27	2056	533	33	396
Harrow	C. T. Holman	317,787	May 12	1145	{ 303 } 304	31	741
Harrow	F. M. Jansen	328,782	Oct. 20	1672	435	33	320
Harrow	F. A. Johnson	322,627	July 21	1907	506	32	363
Harrow	L. Johnson	320,067	June 16	1502	398	31	1338
Harrow	J. Macphail	330,795	Nov. 17	1819	490	33	868
Harrow	J. Maunder	323,705	Aug. 4	420	120	32	601
Harrow	J. and J. McIndoo	312,570	Feb. 17	1523	416	30	648
Harrow	C. W. McKelvey	313,357	Mar. 3	451	114	30	860
Harrow	P. Nelson	327,713	Oct. 6	2282	72	33	50
Harrow	A. H. Patch	316,648	Apr. 28	2288	601	31	434
Harrow	J. F. Platt	325,694	Sept. 8	633	161	32	1139
Harrow	A. H. and W. D. Price	328,519	Oct. 20	1315	342	33	255
Harrow	E. D. and O. B. Reynolds	311,367	Jan. 27	1627	445	30	319
Harrow	W. F. M. Ricketts	319,321	June 2	471	127	31	1137
Harrow	B. F. Rix	327,020	Sept. 20	2440	638	32	1491
Harrow	T. W. Robinson	312,166	Feb. 10	969	264	30	536
Harrow	E. J. Rogers	324,168	Aug. 11	1031	282	32	721
Harrow	T. Rogers	313,534	Mar. 10	681	{ 178 } 179	30	913
Harrow	J. S. Rowell	332,562	Dec. 15	1918	502	33	1352
Harrow	G. G. Seeger	331,749	Dec. 1	755	191	33	1133
Harrow	G. W. Siddons	312,523	Feb. 17	1469	402	30	635
Harrow	A. J. Sprague	321,458	July 7	67	19	32	15
Harrow	L. Theis	324,896	Aug. 25	2044	559	32	925
Harrow	A. W. Thomas	311,544	Feb. 3	118	35	30	371
Harrow	E. E. Whipple	324,057	Aug. 11	677	242	32	693
Harrow	H. L. Whitman	321,071	June 30	2286	767	31	1606
Harrow	J. R. Whittemore	315,579	Apr. 14	848	223	31	157
Harrow	A. Wilcox	324,636	Aug. 18	1671	461	32	848
Harrow	A. Wilcox	331,353	Dec. 1	134	33	33	1022
Harrow	T. J. Williams	324,442	Aug. 18	1415	386	32	801
Harrow	H. Winger	330,952	Nov. 24	2030	549	33	915
Harrow	W. Boatner	321,676	July 7	356	94	32	67
Harrow	W. A. Dobb	326,206	Sept. 15	1321	343	33	1273
Harrow and cotton-planter. Combined	J. H. and J. L. Woolard	315,106	Apr. 7	162	39	31	30
Harrow and cultivator. Combined	J. R. Whittemore	323,614	Aug. 4	303	87	32	578

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Harrow and cultivator. Roller spring-tooth.	R. W. and A. W. Davis	329,371	Oct. 27	2538	654	33	483
Harrow and cultivator. Wheel.	I. J. Hunt	331,399	Dec. 1	303	53	33	1034
Harrow and land-roller.	W. T. Ferguson	332,919	July 28	2046	540	32	395
Harrow and pulverizer. Combined.	B. Wilt	317,909	May 12	1313	351	31	773
Harrow and seeder. Combined.	J. S. Corbin and A. G. Hill	312,554	Feb. 17	1507	411	30	644
Harrow and sod-cutter. Combined.	A. J. Lyons	328,898	Oct. 20	1824	475	33	348
Harrow, clod-crusher, and stalk-cutter. Combined.	D. M. McElhaney	311,842	Feb. 3	490	134	30	441
Harrow, cultivator, and clod-crusher. Combined.	W. E. Kinnear	329,748	Nov. 3	434	110	33	587
Harrow, cultivator, and plow. Combined.	S. Franklin	325,598	Sept. 1	506	126	32	1112
Harrow. Cutting and pulverizing.	T. McClelland	317,399	May 5	633	162	31	638
Harrow. Disk.	A. Corbin, Jr.	315,127	Apr. 7	184	45	31	34
Harrow. Disk.	J. S. Corbin	325,224	Aug. 25	2471	680	32	1005
Harrow. Disk.	C. La Dow	323,343	July 28	2647	705	32	584
Harrow. Disk.	C. La Dow	323,344	July 28	2652	705	32	505
Harrow. Disk.	M. C. Niles	328,054	Oct. 13	711	187	33	135
Harrow. Disk.	H. M. Rose	318,395	May 19	1963	589	31	902
Harrow. Disk.	R. K. Swift and L. E. Phelps	310,475	Jan. 6	394	109	30	76
Harrow. Drag.	P. Meyer	319,109	June 2	218	57	31	1068
Harrow. Iron.	A. Callander	330,675	Nov. 17	1660	447	33	839
Harrow. Pulverizing.	J. Wherry, Jr.	329,606	Nov. 3	251	65	33	553
Harrow. Riding.	P. Mougey	325,760	Sept. 8	734	184	32	1156
Harrow. Rotary.	J. W. Cureton and J. Kaino	323,299	July 28	2501	687	33	494
Harrow. Rotary.	C. Hawley	321,105	June 30	2933	777	31	1613
Harrow. Rotary.	J. R. Hicks	325,932	Sept. 8	941	238	32	1197
Harrow. Rotary.	H. H. Monroe	312,150	Feb. 10	941	256	30	531
Harrow. Rotary.	L. N. Petersen, M. L. Harkson, and H. Hagge	326,775	Sept. 22	2105	547	32	1422
Harrow. Rotary.	S. P. Sayre	325,865	Sept. 8	870	219	32	1183
Harrow. Rotating.	H. H. Ladd	318,631	May 26	2278	608	31	906
Harrow, sled, and marker. Adjustable.	W. R. Locke	311,093	Feb. 10	596	163	30	467
Harrow. Sulky.	E. French and F. Parvin	315,492	Apr. 14	714	186	31	133
Harrow. Sulky.	C. La Dow	312,476	Feb. 17	1397	386	30	623
Harrow-teeth. Machine for inserting.	A. Hirschheimer and C. M. Mueller	325,542	Sept. 1	440	109	32	1100
Harrow-teeth. Making.	E. D. and O. B. Reynolds	316,569	Apr. 28	2186	575	31	415
Harrow-tooth.	J. C. Forbis	329,035	Oct. 27	2050	532	33	395
Harrow-tooth and holder.	G. E. Wilcox	328,992	Oct. 27	1983	515	33	383
Harrow-tooth attachment.	C. E. Hogeboom	325,839	Sept. 8	836	309	32	1176
Harrow-tooth fastener.	J. Miller	318,195	May 19	1694	454	31	522
Harrow-tooth fastening.	C. E. Cook and J. Mitchell	320,334	June 16	1890	497	31	1406
Harrow-tooth holder.	A. J. Gillespie	322,211	Oct. 13	911	237	33	173
Harrow-tooth. Spring.	T. G. Cook	322,351	July 14	1261	330	32	940
Harrow-tooth. Spring.	L. J. Stanton	327,440	Sept. 29	2265	747	32	1565
Harrow. Wheel.	D. W. Carter	324,655	Aug. 18	1712	472	32	856
Harrow. Wheel.	M. Chandler	313,654	Mar. 10	842	219	30	943
Harrow. Wheel.	G. J. Chino	324,258	July 14	1144	299	32	217
Harrow. Wheel.	D. H. Dolby	321,263	June 30	3147	839	31	1654
Harrow. Wheel.	T. B. Fagan	323,132	July 28	2246	622	32	451
Harrow. Wheel.	B. Maltby	313,354	Mar. 3	447	113	30	859
Harrow. Wheel.	A. E. Myers	324,953	Aug. 25	2116	579	32	940
Harrow. Wheel.	E. F. Stoddard	312,772	Feb. 24	1788	493	30	705
Harrow. Wheel.	T. A. Sweet	321,922	July 7	702	183	32	127
Harvester.	J. F. Appleby	324,350	Aug. 18	1272	351	32	779
Harvester.	W. R. Baker	324,744	Aug. 18	1820	503	32	877
Harvester.	W. R. Baker	324,745	Aug. 18	1822	503	32	878
Harvester.	F. G. Becker	317,964	May 19	1396	375	31	796
Harvester.	A. Bumgarner	325,392	Sept. 1	241	60	32	1061
Harvester.	W. F. Cochran	325,319	Sept. 1	119	34	32	1037
Harvester.	F. Cordrey	332,136	Dec. 8	1325	344	33	1242
Harvester.	R. Dutton and R. Eickemeyer	312,450	Feb. 17	1354	373	30	617
Harvester.	J. B. Gemmill	329,158	Oct. 27	2223	575	33	425
Harvester.	C. Grattan	333,124	Dec. 29	2715	713	33	1516
Harvester.	W. P. Hale	325,208	Aug. 25	2450	674	32	1001
Harvester.	J. Hay	330,978	Nov. 24	2061	557	33	921
Harvester.	D. Houser	324,697	Aug. 18	1769	487	32	867
Harvester.	G. G. Hunt	310,944	Jan. 20	1017	275	30	901
Harvester.	G. G. Hunt	319,257	June 2	301	104	31	1122
Harvester.	J. Keller	330,713	Nov. 17	1709	461	33	849
Harvester.	F. Laqua	328,224	Oct. 13	940	245	33	179
Harvester.	J. P. Manny	317,815	May 12	1187	316	31	749
Harvester.	A. B. Monck	325,266	Sept. 1	46	14	32	1024
Harvester.	G. W. Packer and C. M. Grim	323,954	Aug. 11	739	203	32	669
Harvester.	J. A. Peck	322,001	July 14	813	213	32	156
Harvester.	J. W. Reams	310,316	Jan. 6	208	56	30	39
Harvester.	J. F. Steward	315,567	Apr. 14	830	219	31	154
Harvester.	W. F. Weirick	326,817	Sept. 22	2166	564	32	1434
Harvester.	J. White	328,266	Oct. 13	978	235	33	185
Harvester.	W. N. Whiteley and W. Bayley	322,229	July 14	1113	289	32	212
Harvester.	W. N. Whiteley and W. Bayley	330,664	Nov. 17	1631	438	33	833
Harvester.	D. Young	330,541	Nov. 17	1498	400	33	805
Harvester adjusting device.	J. T. Baker	328,273	Oct. 13	987	257	33	187
Harvester adjusting mechanism.	N. W. Miller	323,588	Aug. 4	266	78	32	571
Harvester and binder.	W. N. Whiteley	323,613	Aug. 4	301	86, 87	32	578
Harvester and binder. Grain.	G. F. Messinger	326,443	Sept. 15	1630	436	32	1230
Harvester and mowing-machine.	G. M. Patten	330,729	Nov. 17	1736	468	33	884

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Harvester-binder	E. W. Jenkins	324,772	Aug. 18	1864	513	32	885
Harvester-binder	J. F. Steward and R. H. Dixon	314,272	Mar. 24	1670	514	30	1113
Harvester-binder	J. G. Watson	324,283	Aug. 11	1197	444	32	753
Harvester-binder. Adjustable.	J. F. Appleby	315,993	Apr. 21	1413	325	31	289
Harvester-binder tension device	W. M. Holmes	328,887	Oct. 20	1811	367	33	346
Harvester-binders. Bundle-carrier for	G. A. Strout	325,710	Sept. 8	669	472	33	1145
Harvester-binders. Cord-holder for	J. C. McLachlan	313,094	Mar. 3	72	167	30	701
Harvester bundle-carrier	W. Beltz	330,459	Nov. 17	1395	20	33	786
Harvester bundle-carrier	W. N. Whiteley	322,228	July 14	1112	371	32	211
Harvester bundle-dropper	A. H. Bell	320,750	June 23	2454	269	31	1521
Harvester-butter and apron belt or carrier	L. Miller	329,062	Oct. 27	2085	650	31	401
Harvester conveyer-apron	W. J. Belina	318,442	May 26	2025	542	31	921
Harvester. Corn	A. S. Avery and L. W. Osborn	311,056	Jan. 20	1172	545	30	231
Harvester. Corn	H. S. Bartholomew	319,054	June 2	148	321	31	1074
Harvester. Corn	J. D. Burle	316,943	May 5	16	40	31	526
Harvester. Corn	E. W. Conneys	329,438	Nov. 3	16	5	33	507
Harvester. Corn	G. H. Kunsman	326,993	Sept. 29	2406	4, 5	32	1485
Harvester. Corn	K. E. Lathrop	323,046	July 28	2234	629	32	428
Harvester. Corn	W. D. Murray	321,908	July 7	683	590	32	124
Harvester. Corn	R. L. Pearson	319,310	June 2	459	501	31	1135
Harvester. Corn	F. J. Randall and G. B. Snow	311,526	Feb. 3	90	177	30	366
Harvester. Corn	C. Williamson	325,190	Aug. 25	2425	174	32	996
Harvester. Corn	S. H. Young	323,618	Aug. 4	310	28	32	580
Harvester. Corn and cane	J. H. Wilson and J. A. Forbes	328,910	Oct. 20	1841	667	33	351
Harvester. Cotton	O. T. Bugg	329,810	Nov. 3	519	480	33	603
Harvester. Cotton	R. K. Charles	314,365	Mar. 24	1796	132	30	1137
Harvester. Cotton	D. B. Haselton	313,421	Mar. 3	532	478	30	876
Harvester. Cotton	D. B. Haselton	313,422	Mar. 3	533	140	30	876
Harvester. Cotton	D. B. Haselton	319,710	June 9	998	141	31	1241
Harvester. Cotton	D. B. Haselton	328,116	Oct. 13	795	284	33	150
Harvester. Cotton	J. Ledward	321,440	July 7	35	207	9	9
Harvester. Cotton	E. F. O'Haver	326,142	Sept. 15	1222	312	32	1255
Harvester. Cotton	G. W. Purcell	310,314	Jan. 6	204	313	30	39
Harvester. Cotton	C. L. Walter	325,880	Sept. 8	885	55	32	1186
Harvester-covering	J. F. Steward	311,542	Feb. 3	115	223	30	371
Harvester-cutter	G. R. and W. G. Sigler	323,745	Aug. 4	472	225	32	619
Harvester cutter-bar	J. E. Ratcliff	318,802	May 23	2514	133	31	1008
Harvester cutting apparatus	C. Galle	319,222	June 2	346	671	31	1113
Harvester cutting apparatus	D. W. Hovey	318,745	May 26	2433	93	31	995
Harvester cutting apparatus	D. Michaels	321,637	July 7	593	652	31	109
Harvester cutting apparatus	J. A. Ritter, Jr.	315,341	Apr. 7	490	153	31	89
Harvester finger-bar	W. L. Walker	320,968	June 30	2773	124	31	1585
Harvester frame-adjusting mechanism	G. G. Hunt	315,624	Apr. 14	906	736	31	168
Harvester frame bearing	W. N. Whiteley	330,181	Nov. 10	1023	238	33	708
Harvester grain-binder	C. Wheeler, Jr.	321,467	July 7	81	267	32	17
Harvester. Grain-binding	A. O. Carman	318,953	June 2	20	21, 22	31	1052
Harvester. Grain-binding	J. S. Davis	312,824	Feb. 24	1861	6, 7	30	717
Harvester. Grain-binding	P. F. Hodges	319,717	June 9	1008	510	31	1243
Harvester. Grain-binding	W. W. Marsh and M. E. Blood	311,997	Feb. 10	729	511	30	490
Harvester. Grain-binding	W. W. Marsh and M. E. Blood	321,511	July 7	134	267	32	27
Harvester. Grain-binding	T. C. Marshall	325,752	Sept. 8	726	199	32	1156
Harvester. Grain-binding	T. C. Marshall	332,725	Dec. 22	2161	200	33	1402
Harvester. Grain-binding	J. Miller	313,878	Mar. 17	1151	35	30	1007
Harvester. Grain-binding	L. Miller	316,991	May 5	84	37	31	538
Harvester. Grain-binding	L. Miller	329,931	Nov. 10	685	38	33	640
Harvester. Grain-binding	L. Miller	329,933	Nov. 10	692	175	33	641
Harvester. Grain-binding	L. Miller	331,808	Dec. 8	830	176	33	1154
Harvester. Grain-binding	L. Miller and A. E. Ellinwood	329,932	Nov. 10	690	212	33	641
Harvester. Grain-binding	D. R. Preston	330,423	Nov. 17	1346	177	33	777
Harvester. Grain-binding	J. F. Seiberling	310,324	Jan. 6	220	359	30	42
Harvester. Grain-binding	J. F. Seiberling	311,040	Jan. 20	1149	60	30	227
Harvester. Grain-binding	J. F. Seiberling	325,871	Sept. 8	876	313	32	1184
Harvester-knife grinder	J. F. Webster and W. H. and C. F. Pease	323,244	July 28	2501	314	32	479
Harvester. Low-down self-binding	P. F. Hodges	323,333	July 28	2637	664	32	503
Harvester. One-wheel	M. Van Matteson	313,136	Mar. 3	128	701	30	800

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Harvester. One-wheel	M. Van Matteson	313,137	Mar. 3	130	32	30	800
Harvester pitman-coupling	H. L. Heaton	315,940	Apr. 14	1337	347	31	948
Harvester-platform	J. Garrard	316,957	May 5	37	10	31	529
Harvester-platforms. Mechanism for adjusting	G. H. Spaulding	325,367	Sept. 1	183	49	32	1049
Harvester-platforms. Mechanism for supporting and adjusting the elevation of	J. F. Appleby	314,774	Mar. 31	2365	626 627	30	1268
Harvester-rake	M. Van Matteson	313,135	Mar. 3	125	31	30	800
Harvester-reel	W. R. Baker	324,290	Aug. 11	1206	328	32	755
Harvester-reel	D. Gingrich	320,927	June 30	2688	713	31	1570
Harvester-reel	H. H. Hicks	332,079	Dec. 8	1235	322	33	1237
Harvester-reel	F. Laqua	317,150	May 5	298	76	31	578
Harvester-reel	L. Miller	315,649	Apr. 14	935	245	31	175
Harvester-reel	L. W. Noyes and T. O. Perry	323,592	Aug. 4	271	79	32	573
Harvester-reel	L. L. Olp	319,116	June 2	228	60	31	1069
Harvester-reel support	L. Miller and A. E. Ellinwood	332,732	Dec. 22	2170	572 573	33	1405
Harvester. Self-binding	G. W. Blakelee	324,524	Aug. 18	1527	421	32	621
Harvester. Self-binding	A. O. Carman	318,954	June 2	27	7.8	31	1063
Harvester. Self-binding	J. Harris and J. Lucas	322,931	July 28	2064	540	33	398
Harvester. Self-binding	W. F. Olin	326,884	Sept. 22	2258	559 591 590	32	1451
Harvester. Self-binding	M. D. Taylor	331,921	Dec. 8	1002	260 261	33	1186
Harvester. Self-binding grain	P. A. Spicer	332,565	Dec. 15	1921	503	33	1353
Harvester. Stalk	G. G. F. Boswell	327,649	Oct. 6	201	50	33	36
Harvester. Sugar-cane	C. H. Lee	332,411	Dec. 15	1704	446 447	33	1316
Harvester tongue-support	D. Wallace and J. Darcus	323,471	Aug. 4	113	32	32	543
Harvester-wheel	G. G. Hunt	331,971	Dec. 8	1071	278	33	1199
Harvester-wheel	J. F. Mertz and B. Lorton	312,883	Feb. 24	1840	531	30	731
Harvesters and mowers. Cutter and cutter-guard for	R. Brown	314,103	Mar. 17	1449	379	30	1063
Harvesters. Cleaning mechanism for cotton	G. Beckman	313,278	Mar. 3	349	86	30	839
Harvesters. Comb for grass-seed	J. I. C. Naff	325,109	Aug. 25	2318	638	32	977
Harvesters. Grain-adjusting mechanism for grain-binding	W. McGregor and T. M. Flenniken	323,187	July 28	2430	643	32	466
Harvesters. Picking mechanism for cotton	G. Beckman	313,276	Mar. 3	345	85	30	839
Harvesters. Picking rod or burr for cotton	G. Beckman	313,277	Mar. 3	347	86	30	839
Harvesters. Shear-carrier for self-binding	H. S. Chapman	314,364	Mar. 24	1795	477	30	1137
Harvesting and binding machines. Adjustable seat for grain	G. Esterly	327,932	Oct. 6	553	144	33	99
Harvesting and husking machine. Corn	J. G. Stowe	331,459	Dec. 1	292	79.20	33	1050
Harvesting-knife	F. Stafford	311,792	Feb. 3	429	116	30	429
Harvesting-machine	W. R. Baker	324,354	Aug. 18	1298	353	32	720
Harvesting-machine	R. Brown	315,901	Apr. 14	1286	335	31	239
Harvesting-machine	P. F. Hedges	321,813	July 7	549	145	32	102
Harvesting-machine	G. H. Howe	330,330	Nov. 10	1206	323	33	744
Harvesting-machine	S. Johnston and G. H. Raymond	331,887	Dec. 8	955	247	33	1177
Harvesting-machine	L. W. Noyes	327,581	Oct. 6	103	23.24	33	19
Harvesting-machine. Corn	E. M. Alkin	319,163	June 2	279	73	31	1099
Harvesting machine. Corn	L. V. Lewis and S. S. Allen	322,450	July 21	1415	370	32	274
Harvesting machine. Corn	H. F. Urie	320,416	June 16	2020	530 531	31	1430
Harvesting machine. Corn and cane	H. W. Matthews. (Reissue)	10,601	May 26	2693	713 714	31	1041
Harvesting-machine cutting apparatus	S. R. Owen	323,880	Aug. 4	639	180	32	644
Harvesting-machine dropping-cradle	J. Hornsby, F. C. Southwell, and J. Innocent	327,087	Sept. 29	2557	661	32	1507
Harvesting machine. Pea	J. H. Nicholes	317,666	May 19	969	256 257	31	711
Harvesting-machines. Mechanism for dumping the bundle-carriers of	J. Harris and J. Lucas	322,932	July 28	2065	550	32	399
Harvesting-machines. Mechanism for raising and lowering	J. F. Appleby	310,928	Jan. 20	967	268	30	196
Hasp	J. S. Williams	311,934	Feb. 10	633	174	30	475
Hasp and bolt. Combined	A. P. Olmstead	310,014	June 2	102	28	31	1067
Hasp-lock	E. Hambruger	313,590	Mar. 10	755	169	30	927
Hasp-lock	C. Neblett	314,147	Mar. 17	1509	395	30	1074
Hasp-lock	C. P. Pond	321,246	June 30	3100	824	31	1645
Hat	W. J. Harris	324,687	Aug. 18	1756	484	32	865
Hat	J. Thomas	327,354	Sept. 29	2288	754	32	1569
Hat and bonnet fastener	C. Abell	332,031	Dec. 8	1167	305	33	1215
Hat and bonnet fastener	J. L. Ubellar	322,213	July 14	1092	284	32	908
Hat and coat hook	J. D. Mack and J. G. Newbury	314,581	Mar. 31	2100	560	30	1219
Hat and towel holder	W. Mathews	330,991	Nov. 24	2079	563	33	924
Hat-binding. Detachable	W. Lawrence and H. V. Dibble	328,694	Oct. 20	1567	408	33	300
Hat-block chuk	R. Eickmeyer	317,104	May 5	228	57	31	565
Hat-bodies. Machine for felting	A. Fellase	320,391	June 16	1965	522	31	1494
Hat-bodies, &c. Machine for felting	J. T. Waring	320,101	June 16	1547	410	31	1346
Hat-bodies. Machine for felting	J. T. Waring	320,102	June 16	1549	410	31	1346
Hat-bodies. Machine for forming	J. Gill	311,826	Feb. 3	469	127	30	437
Hat-bodies, &c. Machinery for felting	J. T. Waring	326,698	Sept. 22	1849	485	32	1378
Hat-bodies, &c. Machinery for felting	J. T. Waring	332,851	Dec. 22	2319	614	33	1432
Hat-bodies. Machinery for scalding and felting	J. S. Taylor	313,127	Mar. 3	116	28	30	798
Hat-brim curls. Machine for trimming	J. Bigelow	317,286	May 5	485	122 123	31	611
Hat-brim softener	E. Tweedy and G. Yule	315,451	Apr. 7	643	166 167	31	115
Hat-brims. Apparatus for curling and setting	L. H. Hoyt	314,131	Mar. 17	1492	389	30	1071
Hat-brims. Apparatus for curling and setting silk, felt, and other	H. Polak and H. Lowe	322,004	July 14	816	214	32	157
Hat-brims. Finishing or binding the edges of	J. Thomas	327,353	Sept. 29	2287	754	32	1569
Hat-brims. Machine for curling	A. C. Arnold and W. Thompson	326,935	Sept. 29	2336	611	33	1472

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Hat-brims. Machine for planing the folded or curled edges of	R. Eickemeyer	317,324	May 5	538	137	31	622
Hat-brims. Machine for setting the folded or curled edges of	R. Eickemeyer	331,286	Dec. 1	44	133	33	1007
Hat-brims. Setting the folded or curled edges of	R. Eickemeyer	332,509	Dec. 15	1973	516	33	1362
Hat curling, finishing, or trimming machine	E. Tweedy and G. Yule	317,425	May 5	672	517	31	645
Hat-curling machine	F. Cocker and G. Yule	320,115	June 16	1570	414	31	1350
Hat-curling machine	F. Cocker and G. Yule	323,296	July 28	2553	415	32	403
Hat felting and sizing machine	T. Longshaw	317,555	May 12	840	217	31	685
Hat felting and sizing machine	T. Longshaw	323,171	July 24	2398	636	32	460
Hat-fanging apparatus	L. G. Williams	327,212	Sept. 29	2100	702	32	1538
Hat-forming machine	D. Almond	312,002	Feb. 24	1568	459	30	665
Hat-forming machine	D. Almond	316,377	Sept. 15	1552	403	32	1316
Hat-forming machine	I. F. Brown	323,023	July 28	2197	552	32	422
Hat-forming machines. Turn-table for	R. A. Belden	331,180	Nov. 24	2331	631	33	970
Hat frame and body	J. L. Kendall	327,273	Sept. 29	2774	720	32	1550
Hat-holder	F. Blinzler	323,262	July 28	2521	670	32	483
Hat-holder and coat-rack	G. D. Spielman	330,434	Nov. 17	1360	369	33	780
Hat-ironing machine	M. Davis and T. W. G. Cook	322,263	July 14	1149	300	32	218
Hat-ironing machine	E. Tweedy and G. Yule	315,452	Apr. 7	645	167	31	115
Hat-ironing machine	E. Tweedy and G. Yule	316,585	Apr. 28	2207	581	31	419
Hat-leathers, &c. Attaching wire or springs to	F. W. Cheetham	319,561	June 9	802	213	31	1205
Hat-machine clutch	G. Yule	315,207	Apr. 7	324	78, 79	31	58
Hat-machine scale	G. Yule	315,208	Apr. 7	325	79	31	59
Hat-machine tool-coupler	E. Tweedy and G. Yule	317,426	May 5	677	171	31	645
Hat-machine-tool vibrator	G. Yule	315,209	Apr. 7	330	80	31	59
Hat. Metallic helmet	C. H. Lindenberg and E. G. Drake	318,192	May 19	1688	452	31	851
Hat or bonnet supporter	M. Smith	328,729	Oct. 20	1618	421	33	309
Hat or cap	N. Baruch and O. L. Williams	324,073	Aug. 11	902	249	32	697
Hat-paring machine	E. Tweedy and G. Yule	327,122	Sept. 29	2578	672	32	1515
Hat-paring machine	E. Tweedy and G. Yule	327,123	Sept. 29	2582	673	32	1515
Hat-paring machine	E. Tweedy and G. Yule	330,441	Nov. 17	1272	365	33	761
Hat shaping and curling machine	G. Robins	319,747	June 9	1047	277	31	1250
Hat-sizing machine	G. W. Elwell and B. Fay	311,572	Feb. 3	151	43, 41	30	377
Hat-sizing machine	S. C. Palmer	320,581	June 23	2240	593	31	1479
Hat-stand	H. A. Matthews and D. M. Ireland	318,273	May 19	1795	480	31	871
Hat-stay	H. A. House	330,979	Nov. 24	2063	558	33	921
Hat. Storm	H. M. Sawyer	317,677	May 12	1005	261	31	713
Hat sunshade attachment	J. C. Cary	317,972	May 19	1407	378	31	798
Hat-sweat	H. Charmbury	324,082	Aug. 11	913	253	32	700
Hat-sweat	J. N. Harson	326,081	Sept. 8	1147	292	32	1244
Hat-sweat	M. Haslam	311,751	Feb. 3	379	104	30	420
Hat-ventilator	M. J. Nacimento	314,048	Mar. 17	1376	359	30	1050
Hats. Brushing and finishing silk	E. F. Brown	321,680	July 7	361	96	32	68
Hats. Machine for pinning out	T. Sanders	328,719	Oct. 20	1605	418	33	307
Hatter's tank	C. H. Merritt	314,461	Mar. 24	1914	511	30	1160
Hatch. Elevator	P. M. Wilson	312,782	Feb. 24	1804	496	30	707
Hatch gate. Elevator	C. T. Schulze	322,485	July 21	1457	353	32	281
Hatches of elevators. Device for automatically opening and closing	J. T. Pacey	325,858	Sept. 8	862	217	32	1181
Hatchets. Die for making	G. Selsor	318,312	May 19	1855	498	31	881
Hatchway	A. Ralph	321,638	July 7	309	82	32	59
Hatchway-cover. Elevator	W. H. Skerritt	314,684	Feb. 3	295	81	30	404
Hatchway-guard. Automatic	W. S. Morton	320,083	June 16	1524	404	31	1342
Hatchway guard. Elevator	W. S. Morton	317,564	May 12	855	220	31	687
Hatchway-guard for elevators. Automatic	C. K. Rogers	313,450	Mar. 3	577	148	30	854
Hatchway-lock. Spring	W. J. Ritchey	310,320	Jan. 6	216	58	30	41
Hatchway. Self-closing	T. M. Hulbert	313,210	Mar. 3	251	63	30	823
Hatchway. Self-closing	R. D. Thackston	311,089	Jan. 20	1226	335	30	240
Hatchway. Self-closing	R. D. Thackston	311,090	Jan. 20	1226	336	30	240
Hatchway. Self-closing	R. D. Thackston	311,091	Jan. 20	1227	336	30	240
Hatchway. Self-closing	R. D. Thackston	315,083	Apr. 7	131	31	31	25
Hatchway. Self-closing	R. D. Thackston	328,361	Oct. 13	1109	287	33	210
Hatchway. Self-closing	R. D. Thackston	328,362	Oct. 13	1109	287	33	210
Hawee-pipe for vessels	H. H. Kramer	324,262	Aug. 11	1171	318	32	747
Hay and cotton press. Portable	C. L. Barnard	322,037	Dec. 8	1176	308	33	1217
Hay and grain cover. Portable	J. M. Sweeney	328,437	Oct. 13	1222	317	33	231
Hay and grain derrick and carrier	T. B. Elliott	314,321	Mar. 24	1734	462	30	1125
Hay and grain elevator and carrier	E. D. Mead	320,267	June 16	1762	468	31	1384
Hay and grain unloader	R. M. Gardiner	318,558	May 26	2198	587	31	951
Hay and manure fork. Horse	W. Taylor	313,966	Mar. 17	1277	333	30	1031
Hay and stock rack. Combined	J. H. Bittle and A. D. Davis	313,353	Mar. 3	422	105	30	854
Hay and straw burner	H. W. McClure	322,737	July 21	1786	471	32	340
Hay and straw cutter	W. Barrett	326,322	Sept. 15	1558	404	32	1317
Hay and straw rack	W. G. Houk	332,530	Dec. 15	1872	490	33	1344
Hay and straw stacker	H. McCoffee	314,860	Mar. 31	2475	655	30	1288
Hay and wheat elevator	P. F. Fleming	317,527	May 12	811	208	31	679
Hay-binder	G. Banks	321,173	June 30	3012	798	31	1629
Hay-carrier	W. W. Bower	320,290	Nov. 10	1159	308	33	734
Hay-carrier	J. P. Davis	323,858	Aug. 4	611	172	32	638
Hay-carrier	C. E. Hunt, N. B. Helm, and H. L. Ferris	316,463	Apr. 28	2057	539	31	390
Hay-carrier	R. C. Jordan	320,876	June 23	2610	692	31	1550
Hay-carrier	J. G. Kanouse	330,963	Nov. 24	2069	560	33	922

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Hay-carrier	T. C. McNichols	310,700	Jan. 13	693	190	30	138
Hay-carrier	L. Y. Myers	327,451	Sept. 29	3007	785	32	1590
Hay-carrier	R. C. Norton	328,802	Oct. 20	1697	443	33	325
Hay-carrier	J. W. Provan	322,968	July 28	2119	564	33	409
Hay-carrier	H. K. Vandewalker	311,545	Feb. 3	119	35	30	371
Hay-carrier and track-frame	I. N. Matlick	310,951	Jan. 20	1037	278	30	201
Hay-carriers. Device for operating	J. H. Morgan, Jr.	327,893	Oct. 6	497	129	33	89
Hay-derrick	M. V. B. Kenney	321,821	July 7	575	149	33	106
Hay during the process of baling. Device for removing dust, &c., from	J. S. Sherman	313,960	Mar. 17	1271	331	30	1630
Hay-elevator	P. F. Chambard	314,998	Apr. 7	16	4.5	31	5
Hay-elevator	P. F. Fleming	310,810	Jan. 13	829	225	30	162
Hay-elevator	J. M. Foote	317,109	May 5	233	59	31	566
Hay-elevator	B. Oborn	330,918	Nov. 24	1962	536	33	905
Hay elevator and carrier	M. W. Chamberlain	318,085	May 19	1553	416	31	825
Hay elevator and carrier	J. B. Comer	329,021	Oct. 27	2028	526	33	201
Hay elevator and carrier	C. E. Hunt, H. L. Ferris, and N. B. Helm	316,462	Apr. 28	2056	539	31	390
Hay elevator and carrier	W. Louden	328,896	Oct. 20	1821	475	33	347
Hay elevator and carrier	R. H. Morris	312,151	Feb. 10	944	257	30	531
Hay elevator and carrier	J. F. Morrissey	329,035	Nov. 10	605	178	33	642
Hay elevator and carrier	B. Oborn	314,872	Mar. 31	2495	662	30	1222
Hay elevator and carrier	R. L. Short	320,594	June 23	2258	566	31	1423
Hay elevator and conveyer	N. V. Bigelow and A. Whitbeck	328,453	Oct. 20	1842	322	33	941
Hay elevator, conveyer, and stacker	I. N. Matlick	310,953	Jan. 20	1028	278	30	203
Hay-fork	C. S. Ambruster	316,719	Apr. 28	2407	627	31	456
Hay-fork	W. H. Bingham and C. H. Haley	312,416	May 19	1989	535	31	906
Hay-fork	C. A. Gutenkunst	324,836	Aug. 25	1961	538	32	910
Hay-fork	L. Y. Myers	328,053	Oct. 13	709	166	33	135
Hay-fork. Horse	H. D. Babcock	328,997	Oct. 27	1988	517	33	384
Hay-fork. Horse	J. T. Brown	319,671	June 9	747	250	31	1232
Hay-fork. Horse	F. A. Dennett	311,728	Feb. 3	347	96	30	414
Hay-fork. Horse	G. and N. R. Johnson	310,949	Jan. 20	1025	278	30	202
Hay-fork. Horse	F. E. Kohler	318,375	May 19	1938	523	31	807
Hay-fork. Horse	C. Maginnis	317,556	May 12	847	218	31	625
Hay-fork. Horse	T. D. McKinney	317,165	May 5	323	80	31	522
Hay-fork. Horse	S. Miller	314,044	Mar. 17	1371	357	30	1049
Hay-fork. Horse	R. L. Short	312,026	Feb. 10	772	210	30	499
Hay-fork. Horse	P. Werum	316,857	Apr. 28	2005	680	31	492
Hay-fork. Horse	E. S. Yeutzer	327,639	Oct. 6	186	46	33	33
Hay-gatherer	J. H. Poase	322,639	July 21	1655	438	32	317
Hay-knife	W. H. Carter	316,523	Apr. 28	2129	560	31	405
Hay-knife grinder	J. W. Averill	328,375	Oct. 13	1131	292	33	214
Hay-ladder	H. D. Robinson	311,531	Feb. 3	98	29	30	367
Hay-loader	J. W. Foust	329,383	Oct. 27	2553	639	33	496
Hay-loader	J. H. and P. Lux and S. Ede	322,836	July 21	1923	509	33	366
Hay-loader	M. F. E. Stadtmueller	320,188	June 16	1664	442	31	1367
Hay-loader	D. B. Tanger	320,687	Nov. 3	353	70	33	572
Hay loading and unloading apparatus	K. E. Lathrop	322,618	July 21	1631	431	32	312
Hay or corn ricks. Cover for	L. A. Couteau	324,965	Aug. 25	2159	590	32	947
Hay or cotton press	T. P. Bragg	323,268	July 28	2530	672	32	484
Hay or cotton press	B. J. Curry	327,435	Sept. 29	2990	781	32	1587
Hay or straw outter	T. Tattall	331,343	Dec. 1	118	38	33	1020
Hay-press	H. F. Blank	329,882	Nov. 10	629	159	33	629
Hay-press	I. N. Cauthorn	317,297	May 5	501	127	31	615
Hay-press	G. Johnson	330,962	Nov. 24	2068	560	33	922
Hay-press	S. H. Miller	318,644	May 26	2296	613	31	970
Hay-press. Portable	B. J. Curry	333,059	Dec. 22	2612	684	33	1486
Hay-press. Power	A. B. Farquhar	330,472	Nov. 17	1416	377	33	790
Hay-rack	H. Connelly	330,565	Nov. 17	1527	408	33	811
Hay-rack	E. F. Dudley	327,926	Oct. 6	546	143	33	94
Hay-rack	F. L. Johns	329,947	Oct. 27	2067	537	33	398
Hay-rack	J. Stormer	314,746	Mar. 31	2301	611	30	1255
Hay-rack	B. Tanner	323,467	Aug. 4	108	31	32	542
Hay-rack elevator	J. P. Pegg	324,483	Aug. 18	1467	402	32	810
Hay-rake	R. Frick and O. J. Rowe	318,459	May 26	2045	552	31	925
Hay-rake	D. F. Oliver	330,727	Nov. 17	1732	467	33	853
Hay rake and loader	W. and D. Blackstone	317,614	May 12	927	238	31	699
Hay rake and loader	J. Dwigan	321,469	July 7	107	28	32	22
Hay rake and loader	J. Funk	330,311	Nov. 10	1185	316	33	740
Hay rake and loader. Combined	T. Kirby and E. Shea	319,267	June 2	403	107	31	1124
Hay rake and loader. Combined	H. L. Willhoite	315,366	Apr. 7	523	134	31	95
Hay rake and tedder. Combined	J. E. Offutt	312,650	Feb. 24	1625	447	30	676
Hay rake and tedder. Combined	C. Perrin	311,847	Feb. 3	496	136	30	442
Hay rake and tedder. Combined horse	J. N. Wallis and D. W. Smith	333,366	Dec. 29	3044	785	33	1566
Hay rake and tedder. Detachable	J. E. Offutt	319,612	June 9	880	233	31	1219
Hay-rake. Hand	C. C. Carter	323,786	Aug. 4	522	147	32	621
Hay-rake. Hand	C. C. Carter	323,787	Aug. 4	523	148	32	621
Hay-rake. Hand	C. C. Carter	323,788	Aug. 4	524	149	32	621
Hay-rake. Horse	J. Anderson	321,472	July 7	90	24	32	18
Hay-rake. Horse	S. J. Arnold	328,833	Oct. 20	1736	451	33	332
Hay-rake. Horse	F. Bentel	324,000	Aug. 11	798	292	32	668
Hay-rake. Horse	R. S. Carr	327,764	Oct. 6	339	87	33	59
Hay-rake. Horse	R. W. Dixon	320,766	June 23	2473	655	31	1594
Hay-rake. Horse	P. F. Fleming	326,417	Sept. 15	1598	415	32	1325
Hay-rake. Horse	A. W. Force	312,453	Feb. 17	1384	376	30	618
Hay-rake. Horse	J. M. Long	329,917	Nov. 10	667	170	33	637
Hay-rake. Horse	S. Mellinger	322,948	July 28	2069	555	32	403
Hay-rake. Horse	S. R. Nye	316,290	Apr. 21	1805	474	31	340
Hay-rake. Horse	J. E. Offutt	329,766	Nov. 3	457	115	33	591

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Hay-rake. Horse.....	J. E. Offutt.....	329,767	Nov. 3	459	116	33	591
Hay-rake. Horse.....	W. P. Prall.....	333,064	Dec. 22	2649	{ 694 695 }	{ 33 33 }	1492
Hay-rake. Horse.....	G. Robinson.....	332,440	Dec. 15	1744	456	33	1392
Hay-rake. Horse.....	E. F. Stoddard.....	314,621	Mar. 31	2137	569	30	1225
Hay-rake. Horse.....	E. F. Stoddard.....	314,622	Mar. 31	2140	570	30	1225
Hay-rake. Horse.....	E. F. Stoddard.....	314,623	Mar. 31	2142	570	30	1226
Hay-rake. Horse.....	E. F. Stoddard.....	314,624	Mar. 31	2145	{ 570 571 }	{ 30 30 }	1226
Hay-rake. Horse.....	J. H. Thomas.....	317,594	May 12	896	230	31	693
Hay-rake. Horse.....	C. A. Werden.....	316,706	Apr. 28	2388	622	31	452
Hay-rake. Revolving horse.....	W. A. Donnell.....	325,511	Sept. 1	400	98	32	1091
Hay-rake. Revolving sulky.....	B. Collins.....	332,055	Dec. 8	1200	313	33	1221
Hay-rake. Revolving sulky.....	S. B. Collins.....	331,478	Dec. 1	317	85	33	1054
Hay raker and loader.....	J. H. Corcoran and L. Rummel.....	320,227	June 16	1715	456	31	1376
Hay raker and loader.....	J. I. Davis.....	328,658	Oct. 20	1526	{ 396 397 }	{ 33 33 }	292
Hay-rakes, &c. Securing the teeth of horse.....	A. J. Nellis.....	328,506	Oct. 20	1304	339	33	254
Hay raking and loading machine.....	G. A. and D. R. Stedman.....	320,598	June 23	2264	599	31	1484
Hay ricker and loader.....	J. Allen.....	327,552	Oct. 6	447	116	33	78
Hay-ricking device.....	R. O. Davis.....	317,744	May 12	1093	286	31	730
Hay-stacker.....	T. S. Adkins.....	317,697	May 12	1031	268	31	719
Hay-stacker.....	J. A. Ball.....	315,109	Apr. 7	163	40	31	30
Hay-stacker.....	J. W. and P. M. Hogeland.....	318,429	May 19	2008	541	31	909
Hay-stacker.....	W. Klinker.....	314,853	Mar. 31	2466	652	30	1226
Hay-stacker.....	G. W. Moyer.....	322,938	July 28	2101	559	32	405
Hay-stacker.....	H. Orchard.....	320,443	June 16	2055	439	31	1436
Hay-stacker.....	P. F. Terry.....	315,185	Apr. 7	291	69	31	52
Hay-stacker fork.....	J. H. and T. K. Barley.....	324,636	Aug. 18	1669	465	32	852
Hay-tedder.....	L. S. Heald.....	330,112	Nov. 10	933	243	33	690
Hay-tedder.....	J. Keller.....	311,991	Feb. 10	723	198	30	429
Hay-tedder.....	W. E. Knox.....	316,371	Apr. 21	1914	506	31	359
Hay-tedder.....	F. E. Kohler.....	318,376	May 19	1940	{ 523 524 }	{ 31 31 }	897
Hay-tedder.....	J. E. Offutt.....	320,065	June 16	1529	405	31	1343
Hay-tedder.....	J. F. Platt.....	333,153	Dec. 29	2758	722	32	1516
Hay-tedder.....	J. Skinner.....	311,614	Feb. 3	907	58	30	387
Hay-tedder.....	J. H. Thomas.....	316,428	Apr. 28	2102	552	31	399
Hay-tedder.....	J. H. Thomas.....	320,506	Nov. 3	107	28	33	525
Hay-tedder.....	J. H. Thomas.....	329,976	Nov. 10	748	191	33	651
Hay-tedder.....	J. H. Thomas.....	329,977	Nov. 10	749	191	33	652
Hay-tedder.....	J. D. Tracy.....	313,555	Mar. 10	709	185	30	918
Hay-tedder.....	J. F. Winchell.....	322,878	July 21	1983	525	32	376
Hay tedder and rake. Combined.....	S. L. Denney.....	312,336	Feb. 17	1204	{ 530 531 }	{ 30 30 }	587
Hay tedder and rake. Combined.....	E. L. Williams.....	317,602	May 12	908	233	31	696
Head-light. Electric.....	E. B. Cutten.....	327,143	Sept. 29	2009	620	32	1520
Head-light. Locomotive.....	J. R. McCormick.....	314,700	Mar. 31	2238	{ 595 596 }	{ 30 30 }	1244
Head-light. Locomotive.....	G. M. D. Riley.....	331,654	Dec. 1	619	153	33	1106
Head-light. Locomotive.....	G. S. Riley.....	321,316	June 30	3185	849	31	1662
Head-light. Locomotive.....	G. N. Scoots.....	318,510	May 26	2112	570	31	938
Head-light signal. Locomotive.....	W. W. Richards.....	320,503	Sept. 15	1729	450	32	1349
Head-protector.....	O. Schlemmer.....	321,644	July 7	315	84	32	60
Head-rest.....	D. D. Gitt.....	318,368	May 19	1927	520	31	895
Head-rest.....	T. B. Jewett.....	332,154	Dec. 8	1353	350	33	1247
Head-rest.....	D. G. and C. J. McDiarmid.....	324,398	Aug. 18	1377	369	32	791
Head-rest.....	C. E. Neeley.....	325,006	Aug. 25	2193	601	32	952
Head-rest. Folding.....	M. J. Koefig.....	319,980	June 16	1389	365	31	1317
Head-section.....	J. R. Larive.....	313,743	Mar. 10	958	248	30	964
Head-section.....	H. Winter.....	319,537	June 9	771	205	31	1199
Header.....	C. H. Deane.....	319,075	June 2	178	47	31	1061
Header and thrasher. Combined.....	T. Powell.....	323,961	Aug. 11	749	{ 208 209 }	{ 32 32 }	671
Headers and thrashers. Steering mechanism for.....	W. H. Parks, Jr.....	319,117	June 2	229	60	31	1089
Heading-machine.....	E. Jordan.....	322,060	July 14	892	{ 231 232 }	{ 32 32 }	170
Hearing. Device to assist.....	L. Ehrlich.....	311,180	Jan. 27	1358	372	30	270
Hearth guard or shield.....	W. J. Sanders.....	315,345	Apr. 7	494	125	31	90
Heat and fuel economizing apparatus. Oxyhydrocarbon.....	J. T. Dysart.....	315,489	Apr. 14	710	187	31	132
Heat from one current of air to another. Apparatus for transferring.....	C. L., Jr., and I. Braithwaite.....	326,839	Sept. 22	2193	572	32	1439
Heat. Machine for producing cylindrical non-conductors for.....	H. Bolze.....	325,490	Sept. 1	367	89, 90	32	1065
Heat-regulator.....	L. C. Byce and I. L. Dias.....	319,064	June 2	161	43	31	1077
Heat-regulator.....	C. L. Riker.....	318,393	May 19	1962	523	31	901
Heat-transmitter.....	J. H. L. Tuck.....	323,545	Aug. 4	215	64	32	562
Heated surfaces. Fabric for covering.....	H. W. Johns.....	310,205	Jan. 6	60	16	30	14
Heater: See Air and steam heater. Sewing-machine wax-car-heater. heater. Feed-water heater. Soldering-iron heater. Fire-heater. Stove and range water-heater. Fire-place heater. heater. Plant-bed heater. Water-heater. Plumber's heater.	H. B. Chase..... C. J. McGonnell..... E. S. Wilber..... M. C. Huyett..... F. R. Henry..... I. D. Smead.....	314,999 319,286 326,004 329,838 316,620 315,061	Apr. 7 June 2 Sept. 8 Nov. 3 Apr. 28 Apr. 7	19 428 1040 562 2249 128	5 114 264 143 583 30	31 31 32 33 33 31	6 1129 1214 609 427 25

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Heating and cooling coil and producing the same	F. Wilhöft.	311,552	Feb. 3	132	38	36	373
Heating and soldering implement	W. A. Hoeveler and C. Keller	316,785	Apr. 28	2497	652	31	472
Heating and ventilating apparatus	J. L. Hamilton	324,106	Aug. 11	943	250 960	32	706
Heating apparatus	S. Dobbs	314,320	Mar. 24	1733	461 462	30	1125
Heating apparatus	G. Gesner	316,772	Apr. 28	2482	648	31	469
Heating apparatus	E. Körting	314,945	Mar. 31	2597	669	30	1309
Heating apparatus	E. Krachovitz	310,445	Jan. 6	362	99 100	30	70
Heating apparatus. Combined water and air	T. A. MacDonald	329,923	Nov. 10	675	173	33	638
Heating apparatus. Electro-magnetic	M. G. Farmer	323,651	Aug. 4	354	100 101	32	588
Heating apparatus for buildings	S. Bradley	330,462	Nov. 17	1397	372	33	788
Heating apparatus. Hot-air	J. L. Hamilton	311,313	Jan. 27	1551	422	30	305
Heating apparatus. Portable	C. D. P. Gibson	320,648	June 23	2330	615 616	31	1495
Heating apparatus. Steam	H. W. Brinckerhoff	318,084	May 19	1551	416	31	894
Heating apparatus. Steam	S. H. Purdy	313,446	Mar. 3	572	147	30	883
Heating apparatus. Steam	F. Tudor	318,401	May 19	1971	531	31	903
Heating boiler. Steam	T. P. Hogan	326,989	Sept. 29	2392	696	32	1422
Heating boiler. Steam	J. W. Latimer	316,274	Apr. 21	1788	470	31	337
Heating device	G. L. Lavery	315,422	Apr. 7	608	156	31	109
Heating device. Steam	E. A. Wood	311,704	Feb. 3	319	87	30	400
Heating liquids. Apparatus for	F. Antal, F. J. Kugler, and B. Mátyás	319,874	June 9	1230	324 325	31	1220
Heating street-cars and other vehicles. Apparatus for	J. E. Thoroughgood	311,151	Jan. 20	1310	360 361	30	255
Heating. System of steam	M. Foreman	325,667	Sept. 8	602	152	32	1134
Hedge	R. M. Duvall	313,406	Mar. 3	515	135	30	873
Hedge-trimmer	W. McLaughlin	322,193	July 14	1069	278	32	293
Hedge-trimmer	W. Williams, Jr.	323,010	July 28	2179	578	32	419
Hedge-trimmer and mower. Combined	J. V. Latner	311,333	Jan. 27	1579	431	30	311
Hedge-trimmer. Hand	B. F. Bell	316,937	May 5	10	3	31	524
Heel and sole edge trimming machine	W. Manley	322,945	July 28	2079	553 554	32	401
Heel-attaching machine	G. T. Demary	320,050	June 16	1479	390	31	1334
Heel-attaching machine	F. F. Raymond, 2d	316,177	Apr. 21	1639	435	31	315
Heel-attaching machine	F. F. Raymond, 2d	322,126	July 14	982	236	32	188
Heel-attaching machine	F. F. Raymond, 2d	326,779	Sept. 22	2110	548	32	1494
Heel-blanks. Applying top lifts to	F. F. Raymond, 2d	322,561	July 21	1553	409	32	928
Heel-blanks. Machine for forming	C. L. Cotton	320,228	June 16	1716	456	31	1378
Heel-burnishing machine	C. J. Addy	328,371	Oct. 13	1125	290	32	913
Heel-burnishing machine	O. G. Critchett	313,185	Mar. 3	220	53 54 55	30	817
Heel-burnishing machine	J. H. Howard	318,903	May 26	2645	701 702	31	1033
Heel-burnishing machine	A. L. F. Mitchell	312,573	Feb. 17	1530	418	30	646
Heel-burnishing-machine jack	E. E. Spencer	310,470	Jan. 6	389	108	30	75
Heel-jack	E. Bailey	311,098	Jan. 20	1234	338	30	241
Heel-machine	G. Bresse	327,652	Oct. 6	206	51, 52	33	57
Heel-machine	F. W. Coy	329,022	Oct. 27	2022	526 527	33	291
Heel-machine	A. J. Langelier	317,149	May 5	292	74 75 76	31	577
Heel-machine	A. J. Langelier	331,412	Dec. 1	222	58 59 60	33	1037
Heel-machine	J. Tingley	322,761	July 21	1814	479	32	346
Heel-nail blank. Wire	F. F. Raymond, 2d	315,070	Apr. 7	117	27	31	23
Heel-nail plate	F. F. Raymond, 2d	315,080	Apr. 7	116	27	31	23
Heel-nail plates. Making	F. F. Raymond, 2d	325,271	Sept. 1	51	15	32	1026
Heel-nailing machine	H. A. Henderson. (Reissue)	10,588	Apr. 28	2712	706 707	31	511
Heel-nailing machine	H. A. Henderson. (Reissue)	10,589	Apr. 28	2715	707 708	31	512
Heel-nailing machine	H. A. Henderson	316,894	Apr. 28	2652	691 692 693	31	500
Heel-nailing machine	H. A. Henderson	317,646	May 12	963	248	31	706
Heel-nailing machine	H. A. Henderson	332,798	Dec. 22	2251	593	33	1490
Heel-nailing machine	H. A. Henderson and F. F. Raymond, 2d.	317,647	May 12	965	248 249	31	706
Heel-nailing machine	F. F. Raymond, 2d.	316,661	Apr. 22	2301	604 605	31	436
Heel-nailing machine	F. F. Raymond, 2d.	316,826	Apr. 22	2550	668	31	422
Heel-nailing machine	F. F. Raymond, 2d.	316,827	Apr. 22	2554	668 669	31	423
Heel-nailing machine	F. F. Raymond, 2d.	316,828	Apr. 22	2557	669 670	31	423
Heel-nailing machine	F. F. Raymond, 2d.	317,109	May 5	372	93	31	591
Heel-nailing machine	F. F. Raymond, 2d.	317,672	May 12	990	220	31	713
Heel-nailing machine	F. F. Raymond, 2d.	317,851	May 12	1233	326 327	31	757
Heel-nailing machine	F. F. Raymond, 2d.	318,134	May 19	1016	432	31	837
Heel-nailing machine	F. F. Raymond, 2d.	321,530	July 7	172	46, 47	32	34
Heel-nailing machine	F. F. Raymond, 2d.	321,756	July 7	460	124 125	32	67
Heel-nailing machine	F. F. Raymond, 2d.	322,560	July 21	1551	409	32	297
Heel-nailing machine	F. F. Raymond, 2d.	329,079	Oct. 27	2115	548	33	405
Heel-nailing machine	F. F. Raymond, 2d.	329,954	Nov. 10	717	183	33	646
Heel-nailing machine	F. F. Raymond, 2d.	331,441	Dec. 1	265	72	33	1046

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Heel-nailing machine.	F. F. Raymond, 2d.	332,001	Dec. 8	1114	290	33	1907
Heel-nailing machines. Nail-distributor for.	F. F. Raymond, 2d.	319,124	June 2	238	291	31	1091
Heel or toe plate.	J. P. Kannaley	311,009	Jan. 20	1107	302	30	218
Heel-protector.	I. R. Sanford	318,035	May 19	1491	400	31	814
Heel-rands from counter-blanks. Cutting.	E. M. Dickinson	316,130	Apr. 21	1606	419	31	304
Heel. Rubber.	H. V. Deemar	313,291	Mar. 3	368	91	30	843
Heel-stiffener.	H. Pelant	313,682	Mar. 10	868	226	30	949
Heel-stiffener machine.	J. R. Moffitt	327,710	Oct. 6	277	71	33	49
Heel-stiffeners. Machine for making.	C. Dancel	327,244	Sept. 29	2740	711	32	1544
Heel-stiffeners. Machine for making.	H. H. Garwood	325,071	Aug. 25	2273	625	32	968
Heel-stiffeners. Machine for molding.	G. A. Fullerton	325,797	Sept. 8	781	196	32	1166
Heel-trimmer. Rotary.	J. L. Lord	328,853	Oct. 20	1763	460	33	337
Heel-trimming machine.	E. B. Allen	332,984	Dec. 22	2505	682	33	1407
Heel-trimming machine.	C. W. Glidden	321,017	June 30	2208	746	31	1592
Heel-trimming machine.	H. J. Hulskamp	324,844	Aug. 25	1972	541	32	912
Heel-trimming machine.	J. L. Lord and N. Ross	328,854	Oct. 20	1763	460	33	337
Heel-trimming machine.	J. C. Wetmore	316,710	Apr. 28	2395	624	31	434
Heel-trimming machine.	D. A. Williamson	315,203	Apr. 7	317	77	31	57
Heel-trimming machines. Cutter-head for.	W. P. Corson	331,771	Dec. 8	790	200	33	1147
Heel-trimming machines. Knife-gage for.	G. W. De Land	319,465	June 9	672	180	31	1182
Heeling-block.	E. B. Allen	314,411	Mar. 24	1852	494	30	1148
Heeling-jack.	G. N. Burgess, Jr.	331,476	Dec. 1	315	85	33	1054
Heeling-machine.	E. B. Allen	319,377	June 2	538	147	31	1150
Heeling-machine.	H. D. Stone	315,675	Apr. 14	968	253	31	181
Heeling-machine.	H. D. Stone and A. C. Ambler	315,971	Apr. 14	1383	358	31	256
Heeling-machine.	M. A. Tyler and E. Merritt	321,401	June 30	3299	881	31	1683
Hektograph-gage.	F. M. Dunbar	333,115	Dec. 29	2704	709	33	1508
Hemmer.	A. P. Barber, Jr.	331,021	Nov. 24	2111	571	33	931
Hemp, &c. Machine for spreading.	J. Good	315,765	Apr. 14	1099	229	31	206
Hemp, &c. Machine for spreading and drawing.	J. Good	315,766	Apr. 14	1102	290	31	206
Hemp, &c. Machine for spreading and drawing.	J. Good	328,582	Oct. 20	1409	366	33	272
Hide-fleshing machine.	A. W. Reid	331,085	Nov. 24	2194	594	33	946
Hides. Machine for treating.	W. R. Stone and A. W. Pratt	318,820	May 26	2538	677	31	1012
Hides. Machine for unhairing, working, and scouring.	A. E. Whitney	330,653	Nov. 17	1632	439	33	834
High and low water indicator.	J. C. Palmer	327,004	Sept. 29	2816	735	32	1558
Hinge.	S. H. Atkins	323,018	July 28	2187	580	32	421
Hinge.	F. W. Beckwith	322,339	July 14	1124	292	32	214
Hinge.	M. Campbell	332,487	Dec. 15	1799	473	33	1332
Hinge.	T. H. Costello	328,568	Oct. 20	1390	362	33	268
Hinge.	D. K. Jackman	320,555	June 16	1749	465	31	1382
Hinge.	F. F. Parker	327,192	Sept. 29	2679	696	32	1533
Hinge.	J. A. Resch	326,784	Sept. 22	2118	550	32	1425
Hinge.	J. W. Whitmore	323,775	Dec. 29	3055	797	33	1570
Hinge and roller. Combined gate.	J. H. Carille	319,065	June 2	162	43	31	1077
Hinge and stay. Trunk.	J. E. Ladd	310,888	Jan. 6	169	47	30	33
Hinge. Awning-blind.	C. Garlick	326,967	Sept. 29	2376	622	32	1479
Hinge. Ball-and-socket.	A. G. Rockfellow	327,819	Sept. 29	2833	730	32	1560
Hinge. Blind.	R. Ghiselin	326,729	Sept. 22	2043	532	32	1412
Hinge. Fire-screen.	J. M. B. Robinson	328,342	Oct. 13	1079	240	33	205
Hinge for carriage-doors.	S. Gardner	320,945	June 16	1903	501	31	1408
Hinge for gates. Roller.	I. B. Tucker	331,033	Dec. 22	2586	670	33	1482
Hinge for scuttles, skylights, &c.	P. J. Curley	324,968	Aug. 18	1315	357	32	783
Hinge for trunks. Brace.	F. H. Ransom and A. W. Sangster	316,999	Apr. 21	1951	514	31	366
Hinge. Gate.	T. F. Briles	328,882	Oct. 13	999	260	33	189
Hinge. Gate.	P. C. Goshorn	323,574	Aug. 4	249	73	32	568
Hinge. Gate.	M. T. Perkins	318,568	May 19	1810	484	31	874
Hinge. Gate.	G. W. Williams	320,198	June 16	1673	445	31	1368
Hinge-joint.	M. Spring	315,566	Apr. 14	829	218	31	154
Hinge. Lock.	A. R. Brown, Jr.	325,909	Sept. 8	916	231	32	1192
Hinge. Lock.	S. Tuerk	313,457	Mar. 3	536	150	30	886
Hinge. Lock.	J. Wolf	324,444	Aug. 18	1418	387	32	801
Hinge-lock for shutters.	S. M. Carnes	314,105	Mar. 17	1432	380	30	1063
Hinge-pin holes. Forming.	N. Burdick and J. A. Sandford	317,498	May 12	774	198	31	672
Hinge. Reversible.	J. F. Stone	317,701	May 12	1635	269	31	720
Hinge. Spring.	B. Colvin and J. Wolfley	318,418	May 19	1992	536	31	906
Hinge. Spring.	L. M. Devore	326,956	Sept. 29	2363	618	32	1476
Hinge. Spring.	W. Gillilan	310,409	Jan. 6	325	89	30	63
Hinge. Spring.	D. W. Honaley	320,789	June 23	2500	662	31	1329
Hinge. Spring.	S. S. Niles	317,410	May 5	649	166	31	641
Hinge. Spring.	S. S. Niles	325,761	Sept. 8	734	184	32	1158
Hinge. Step-ladder.	G. J. Cline	325,501	Sept. 1	380	93	32	1028
Hinge. Stop.	J. M. Dodge. (Reissue)	10,637	Aug. 18	1896	521	32	892
Hinge. Stop.	J. M. Dodge. (Reissue)	10,638	Aug. 18	1898	521	32	892
Hinge. Strap.	B. D. Palmer	311,518	Feb. 3	83	24	30	365
Hinge. Trunk.	E. Andrews	312,947	Feb. 24	2015	550	30	744
Hinges. Hood for shutter.	C. W. Barnekow	310,637	Jan. 13	611	168	30	122
Hinges. Manufacture of.	E. Lucas	331,416	Dec. 1	235	61, 62	33	1039
Hitch. Safety harness.	M. Gates	333,406	Dec. 29	3096	807	33	1576
Hitching and releasing device. Animal.	J. and W. Wagner	325,482	Sept. 1	330	80	32	1078
Hitching device.	W. C. Boone	323,022	July 28	2195	582	32	422
Hitching device.	J. T. Crabb	318,169	May 19	1662	445	31	846
Hitching device.	L. Lewis	332,914	Dec. 22	2411	637	33	1450
Hitching device.	I. E. Palmer	329,071	Oct. 27	2096	544	33	403
Hitching device for vehicles.	G. Morse	315,816	Apr. 14	1166	305	31	219
Hitching device for vehicles.	D. S. Munger	316,996	May 5	92	24	31	539
Hitching device. Horse.	D. W. Crowther	316,878	Apr. 28	2629	685	31	496
Hitching device. Horse.	W. C. Wilcox	331,016	Nov. 24	2105	570	33	929
Hitching-strap.	S. Birdsall	310,643	Jan. 13	617	170	30	123
Hitching-strap.	S. Birdsall	332,779	Dec. 22	2229	588	33	1416
Hitching-strap clamp.	L. L. Dewcase	330,213	Nov. 10	1061	277	33	715
Hitching-strap holder.	C. D. Page	325,359	Sept. 1	170	45	32	1046

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Hobby-horse	W. Spitznass	314,351	Mar. 24	1778	473	30	1133
Hod-elevator	F. W. Keys	833,134	Dec. 29	2731	717	33	1512
Hoe	F. S. Kretzinger	332,350	Dec. 15	1615	424	33	1301
Hoe	G. W. Perrine	312,218	Feb. 10	1038	284	30	548
Hoe	L. Sauer	313,244	Mar. 3	312	77	30	833
Hoe	R. J. Whitehurst	313,972	Mar. 17	1284	335	30	1033
Hoe and chopper. Cotton	W. E. Inley and E. D. Hunten	833,805	Dec. 29	2968	776 777	33	1556
Hoe. Field or farm	E. K. Boothby	319,183	June 2	301	80	31	1104
Hoe. Plasterer's	P. C. Canfield	317,502	May 12	739	200	31	673
Hoe-rack	R. S. Thompson	331,011	Nov. 24	2101	568	33	939
Hoe. Scuffle	H. Still	318,148	May 19	1636	437	31	841
Hoe. Tilo-ditching	H. and L. Iwan	320,136	June 16	1599	423	31	1254
Hoe. Wheel	S. Fuller	324,466	Aug. 18	1444	385	32	806
Hoes. Manufacture of	J. W. Ellis	323,130	July 23	2343	622	32	450
Hoes. Manufacture of pronged	F. A. Sibley	320,978	June 30	2760	734	31	1523
Hoing-machine	D. G. Ziegler	330,765	Nov. 17	1783	480	33	361
Hog and cattle separating device	D. L. Monroe	330,412	Nov. 17	1334	355	33	775
Hog-catching device	F. M. Scrafford	328,817	Oct. 20	1715	446	33	329
Hog-cholera remedy	G. W. Saxton	324,418	Aug. 18	1388	32	797	
Hog-cholera remedy	D. Schulte	314,545	Mar. 24	2038	30	1120	
Hog-cholera remedy	M. Sleight	320,086	June 16	1543	31	1345	
Hog-cholera remedy	C. P. Smith	317,228	May 5	409	31	598	
Hog-cholera remedy	R. A. Wilson	326,615	Sept. 22	1861	32	1379	
Hog-ringer	S. H. Taylor	327,119	Sept. 29	2575	671	32	1514
Hog-ringing device	P. Drais and A. Hegler	312,445	Feb. 17	1347	371	30	615
Hog-ringing pincher	J. H. Lindsley	324,391	Aug. 18	1347	366	32	799
Hog scalding and scraping machine	P. F. Seidel	329,683	Nov. 3	347	88	33	570
Hog-snout cutter	W. C. Biller	323,261	July 28	2520	669	32	433
Hog-trap	C. Arnold	325,473	Sept. 1	342	83	32	1081
Hog-trough	J. Nelson and L. P. Larson	325,690	Sept. 8	622	159	32	1138
Holst.	J. J. White	317,804	May 12	1309	350	31	778
Holst. Coal	W. S. Cherry	323,125	Dec. 29	2809	735	33	1538
Holst. Miner's	H. S. Bailey	322,516	July 21	1501	394 395	32	229
Holst. Power	C. W. Baldwin	313,156	Mar. 3	158	39	30	606
Holst. Steam	C. Bezançon	312,423	Feb. 17	1318	363	30	609
Hoisting and carrying machine	B. S. Crocker	331,773	Dec. 8	792	300 301	33	1117
Hoisting and conveying apparatus	L. Earth	325,378	Sept. 1	131	36, 37	32	1040
Hoisting and conveying apparatus	J. O'Neill	311,671	Feb. 3	276	76, 77	10	401
Hoisting and conveying apparatus. Bucket-hook for	A. E. Brown	311,225	Jan. 27	1517	414	30	299
Hoisting and conveying machine	A. E. Brown	315,900	Apr. 14	1223	334 335	31	229
Hoisting and conveying machines. Automatic dump-bucket for	A. E. Brown	314,101	Mar. 17	1445	378 379	30	1063
Hoisting and hauling gear	J. Christie	317,727	May 12	1063	277 278	31	725
Hoisting and lowering apparatus	I. I. Lancaster	325,614	Sept. 1	523	139	32	1615
Hoisting apparatus	G. H. Bryant	321,004	June 30	2792	742	31	1569
Hoisting apparatus	D. Gilchrist	310,667	Jan. 13	648	178 179	30	129
Hoisting apparatus	W. H. Maddock and A. Michaels	312,737	Feb. 24	1744	479 480	30	697
Hoisting apparatus	D. C. Prescott	313,104	Mar. 3	89	23	30	793
Hoisting apparatus. Coal	D. C. Niblick	313,880	Mar. 17	1154	300 301	30	1008
Hoisting apparatus. Wagon	J. E. Bird	313,803	Mar. 10	1041	287	30	979
Hoisting bales on wagons. Apparatus for	G. W. Lamb	317,803	May 12	1170	310	31	745
Hoisting-block	F. Shickle	312,663	Feb. 24	1644	453	30	679
Hoisting-bucket	L. G. Ladd	314,031	Mar. 17	1352	333	30	1047
Hoisting-bucket	G. B. Newell and L. G. Ladd. (Re-issue.)	10,551	Jan. 13	902	244	30	176
Hoisting-buckets. Caster-wheel for	A. E. Brown	315,235	Apr. 7	360	88	31	65
Hoisting cage or elevator unloader. Automatic	D. Jenkins	317,136	May 5	275	60, 70	31	574
Hoisting, carrying, and delivering apparatus	W. A. Fry	329,546	Nov. 3	170	45	33	538
Hoisting device. Elevator	R. B. Ayres	320,565	Nov. 24	1914	519	33	893
Hoisting-drum	P. L. Weimer	320,024	June 16	1447	380	31	1327
Hoisting-drum. Elevator	B. W. Griest	328,934	Oct. 27	1888	492	33	366
Hoisting-drum. Elevator	P. L. Weimer	320,022	June 16	1444	379	31	1326
Hoisting-drum. Elevator	P. L. Weimer	320,023	June 16	1445	379 380	31	1327
Hoisting-jack	G. Harkins	316,777	Apr. 22	2427	649	31	470
Hoisting-machine	C. E. Albro	316,718	Apr. 22	2405	627	31	456
Hoisting-machine	G. Henkel	324,690	Aug. 18	1759	455	32	865
Hoisting-machine	C. W. Hunt	320,064	June 16	1498	396	31	1337
Hoisting-machine	W. H. Lotz	314,696	Mar. 31	2231	593 594	30	1243
Hoisting-machine	E. S. and W. A. McKinlay	311,251	Jan. 27	1455	397 398	30	226
Hoisting-machine	E. K. Preston	323,074	July 28	2270	200	32	426
Hoisting-machine	A. Pugh	320,686	June 23	2624	694 695	31	1522
Hoisting-machine	J. Sproggell and H. S. Haskins	324,425	Aug. 18	1397	320	32	796
Hoisting-machine	T. A. Weston	320,315	June 16	1863	489 490	31	1408
Hoisting machine or dredge. Coal	B. M. Munn	323,589	Aug. 4	267	78	32	571
Hoisting machinery	C. W. Hunt	332,803	Dec. 22	2256	595	33	1421
Hoisting machinery. External friction-brake band for	D. H. Merritt	312,146	Feb. 10	935	254 255	30	530
Hoisting mechanism	T. A. Weston	320,316	June 16	1867	490 491	31	1408
Hoisting mechanism	T. A. Weston	320,317	June 16	1869	491	31	1408
Hoisting mechanism	T. A. Weston	320,318	June 16	1871	421 422	31	1408

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Holdback	D. T. Chambers	322,158	July 14	1026	266	32	195
Holdback	R. S. Morse	321,838	July 7	594	154	32	109
Holdback	L. H. Reed	328,065	Oct. 13	729	190	33	138
Holdback	C. Snyder	325,573	Sept. 1	478	119	32	1107
Holdback for vehicle-shafts	D. T. Chambers	322,159	July 14	1027	267	32	195
Holdback for vehicles	E. G. Lynch	321,375	June 30	3263	871	31	1677
Holdback-iron	G. R. Skinner	319,334	June 2	488	132	31	1141
Holdback-vehicle	W. Chegwin and W. A. Eldredge	329,015	Oct. 27	2021	524	33	290
Holland-cases. Extension-door for	C. Cregmille	330,380	Nov. 17	1291	342	33	767
Holder:							
See Bag-holder. Hitching-strap holder.							
Basin-holder. Ice-holder.							
Bicycle-holder. Kettle-holder.							
Billiard-chalk holder. Label-holder.							
Blind-slat holder. Lamp-holder.							
Blotter-holder. Lamp-chimney holder.							
Bluing-holder. Lathe-tool holder.							
Book-holder. Lead and crayon holder.							
Book and copy hold-er. Manuscript-holder.							
er. Merchandise-holder.							
Book and music holder. Music-holder.							
holder. Nail-holder.							
Book-leaf holder. Necktie-holder.							
Bouquet-holder. Oil-cup holder.							
Bristle-holder. Paper-holder.							
Broom-holder. Paper-bag holder.							
Brush and broom holder. Paste-holder.							
holder. Pen-holder.							
Car-label holder. Pen and crayon holder.							
Carbon-holder. Pen and pencil holder.							
Card-holder. Pencil-holder.							
Cartridge-shell hold-er. Pencil and crayon holder.							
er. Pencil or crayon holder.							
Caustic-holder. Photographic-film holder.							
Chalk-holder. Pillow-sham holder.							
Christmas-tree hold-er. Pipe-holder.							
er. Plane-holder.							
Cigar-holder. Program and hat holder.							
Clothes-line holder. Reflector-holder.							
Copy-holder. Rein-holder.							
Cow-tail holder. Ribbon-holder.							
Crayon and eraser holder. Ribbon and braid holder.							
holder. Ring-holder.							
Cuff-holder. Sack-holder.							
Curtain-holder. Sad-iron holder.							
Curtain-cord holder. Sash-holder.							
Dental-engine hold-er. Shade-holder.							
er. Soap-holder.							
Dental file holder. Sponge or mop holder.							
Dental lip-holder. Spool-holder.							
Dental-tool holder. Spool or ball holder.							
Door-holder. Stencil-holder.							
Eaves-trough holder. Stencil-plate holder.							
Egg-holder. Stereotype-plate holder.							
Embroidery-holder. Stock-holder.							
Eyeglass-holder. Strap-holder.							
Fan-holder. Tablet and pencil holder.							
Feed-bag holder. Ticket-holder.							
File-holder. Tobacco-stick holder.							
Fire-cracker holder. Tool-holder.							
Fish-pole holder. Towel-holder.							
Gas-pipe holder. Trace-holder.							
Glove and notion holder. Twine-holder.							
holder. Vessel-holder.							
Hammock-holder. Wagon-stake holder.							
Harness thill-holder. Wash-board holder.							
Harrow-tooth holder. Work-holder.							
Hat-holder. Whip and rein holder.							
Hat and towel holder. Window-screen holder.							
Holder for legal blanks	C. R. Smead	322,758	July 21	1811	478	32	345
Holder for small wares	G. K. Jenkins	327,270	Sept. 29	2771	719	32	1549
Holster for pistols	O. M. Hanscom	317,128	May 5	264	66	31	572
Hominy, grits, &c. Manufacturing	F. Burekhardt	313,982	Mar. 17	1299	339	30	1035
Hominy-mill	C. C. Jesse	313,337	Mar. 3	426	107	30	855
Hood and other garments	W. Randel	330,515	Nov. 17	1468	392	33	800
Hoof-pad	E. F. Collins	323,914	Aug. 11	689	193	32	660
Hoof-pad	T. W. Leonard	323,166	July 28	2392	634	32	459
Hoof parer and evener	A. Knapp	316,978	May 5	63	16	31	534
Hoof-trimmer	C. E. Hunt	321,029	June 30	2827	752	31	1596
Hook:							
See Back-band hook. Harness-hook.							
Button-hook. Hat and coat hook.							
Can-hook. Ice-hook.							
Check-hook. Pad-hook.							
Check-rein hook. Pot-hook.							
Check-rein and post hook. Rein-hook.							
Conductor-hook. Screw or drive hook.							
Eyeglass-hook. Snap-hook.							
Fish-hook. Suspension-hook.							
Garment-hook. Trace-hook.							
Whiffletree-hook.							
Hook	P. F. Chambard	320,047	June 16	1476	389	31	1333
Hook	J. Davis	314,168	Mar. 17	1537	402	30	1078
Hook	R. Ely	311,968	Feb. 10	690	189	30	484

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &	Vol.	Page.
Hook	C. F. Hartman	324,025	Aug. 11	834	231	32	686
Hook	J. M. Riley	331,160	Nov. 24	2308	624	33	985
Hook	A. B. Robinson	322,484	July 21	1437	383	32	281
Hook for hats or garments	E. R. Richards	318,657	May 26	2314	618	31	973
Hook. Swinging	F. J. Herrick and A. McManus	311,246	Jan. 27	1451	396	30	297
Hook.							
See Bowling-hoop.							
Hoop-bundling machine.	W. Bowker	325,492	Sept. 1	369	90	32	1086
Hoop-coiling machine.	A. B. Fry	327,935	Oct. 6	558	145	33	100
Hoop-driver.	M. Naughton	328,706	Oct. 20	1584	412	33	302
Hoop-driver.	G. W. Packer	325,440	Sept. 1	304	74	32	1073
Hoop fastening. Cask.	C. W. Barnes	321,938	July 14	733	192	32	149
Hoop for barrels, &c.	I. S. Hagenbacher and A. Strauss	324,021	Aug. 11	830	220	32	685
Hoop for barrels, tubs, &c.	J. H. Bard	325,809	Sept. 8	802	202	32	1170
Hoop machine. Barrel.	A. Hitzert	313,207	Mar. 3	246	62	30	822
Hoop machine. Barrel.	P. Kettenring	324,707	Aug. 18	1778	491	32	869
Hoop machine. Barrel.	E. Olund	330,259	Nov. 10	1114	285	33	725
Hoop-nailing machine.	A. C. Batcheller	313,645	Mar. 10	822	215	30	940
Hoop or band for barrels, &c.	J. W. Weston	320,732	June 23	2431	645	31	1516
Hoop-planing machine	G. S. Foster	316,768	Apr. 28	2478	647	31	468
Hoop-planing machine	A. F. Ward	332,124	Dec. 8	1307	339	33	1240
Hoop-sawing machine.	J. Hartmann	314,835	Mar. 31	2444	645	30	1282
Hoop-shaving machine	J. Prince	322,967	July 28	2116	563	32	408
Hoop-shaving machines. Knife for.	J. Prince	322,966	July 28	2114	563	32	406
Hoop-skirt	H. H. Bramhall	318,162	May 19	1651	441	31	844
Hoop-skirt	C. E. Brown	329,271	Oct. 27	2380	615	33	475
Hoop-skirt	L. H. Day	322,806	July 21	1870	496	32	356
Hoop-skirt	B. S. Reed	323,963	Aug. 11	753	209	32	672
Hoop-skirt	E. Strouse	311,750	Feb. 3	515	139	30	445
Hoops. Machine for rolling	G. G. Annable and H. W. Leonard	324,073	Aug. 25	2142	585	32	944
Hop-box shade	A. Engle	332,883	Dec. 22	2371	627	33	1441
Hop-breaker	F. L. Sebastian	325,979	Sept. 8	1006	258	32	1208
Hop-scales from their stems. Machine for separating.	J. Müller	314,146	Mar. 17	1509	395	30	1073
Hop-strings. Securing	O. Shute	314,198	Mar. 17	1571	415	30	1075
Hop-stripping machine	E. D. Mills	332,275	Dec. 15	1516	397	33	1283
Hop-trellis	J. Lips	317,585	May 5	618	158	31	633
Hop-yard twiner	E. T. Mulligan	316,165	Apr. 21	1648	431	31	312
Hopper tube for keeping clean saloon-hoppers in railway-cars, &c. Saloon.	J. Martin	312,876	Feb. 24	1334	529	30	730
Hopping wort	J. C. Bauer	336,323	Sept. 15	1559	405	33	1318
Horse and mule shoes. Manufacture of toe-calks for	C. H. Perkins	312,011	Feb. 10	748	204	30	495
Horse-bit	D. McCance	321,737	July 7	434	115	32	61
Horse-bit	A. Thornton	314,081	Mar. 17	1412	369	30	1057
Horse-blanket	A. G. McPherson	312,880	Feb. 24	1938	530	30	730
Horse-blanket fastening	F. A. Look	326,228	Sept. 15	1349	349	32	1278
Horse-blanket-fastening device	W. I. Winne	314,902	Mar. 31	2540	672	30	1229
Horse-blindfold	J. Brick	327,762	Oct. 6	337	87	33	59
Horse block or step	M. B. Duncan	323,646	Aug. 4	348	99	32	587
Horse-boot	J. Fennell	317,525	May 12	809	208	31	678
Horse-boot. Elastic	J. H. Fenton	317,526	May 12	810	208	31	678
Horse-check. Automatic	M. Medart	333,421	Dec. 29	3116	814	33	1389
Horse-checking device	C. A. Bradford	310,872	Jan. 20	911	248	30	183
Horse-cover	H. Rea	314,718	Mar. 31	2266	602	30	1948
Horse-detacher	T. M. Ferguson	310,808	Jan. 13	828	224	30	162
Horse-detacher	A. F. Godefroy	325,334	Sept. 1	138	38	32	1041
Horse-detacher	T. W. Lambert	332,257	Dec. 15	1405	391	33	1279
Horse-power	S. Cox	311,233	Jan. 27	1435	391	30	224
Horse-power	W. T. Cross	317,519	May 12	804	208	31	677
Horse-power	L. R. Jones	333,415	Dec. 29	3107	809	33	1379
Horse-power	O. W. Kelly and L. F. Dieter	329,394	Oct. 27	2575	663	33	469
Horse-power	K. S. Knutson	313,214	Mar. 3	257	65	30	884
Horse-power	H. R. Smith	318,518	May 26	2133	574	31	942
Horse-power brake	B. J. Irish	310,436	Jan. 6	354	97	30	69
Horse-power for hay-carriers	J. S. Grabill	315,934	Apr. 14	1330	346	31	947
Horse-power motor	P. Fisher	311,737	Feb. 3	358	99	30	416
Horse-rake	W. H. Hall	333,218	Dec. 29	2843	743	33	1382
Horse-rake	J. M. Long	312,645	Feb. 24	1621	446	30	675
Horse rake and tedder. Combined	E. F. Stoddard	322,136	July 14	996	259	32	120
Horse-shield	N. E. Springstun	311,267	Jan. 27	1483	406	30	283
Horses. Apparatus for checking and controlling runaway	W. O. Walley	331,350	Dec. 1	130	32	33	1021
Horses. Device for controlling	J. C. Gill	329,448	Nov. 3	26	8	33	510
Horses. Device for controlling runaway	L. Roll	310,322	Jan. 6	219	60	30	49
Horses. Device for stopping runaway	P. Gumbinner	323,868	Aug. 4	622	175	32	640
Horses. Driveway for training	C. F. Shedd	320,712	June 23	2410	638	31	1511
Horses' feet. Medicament-retainer for	E. T. Keagle	330,241	Nov. 10	1004	289	33	722
Horses. Foot-rest for shoeing	B. Lear	331,070	Dec. 8	1000	283	33	1268
Horses getting their tails over the lines. Device for preventing	J. Thompson	313,254	Mar. 3	325	80	30	235
Horses' hoofs. Tool for trimming	J. Bernadac	326,831	Sept. 22	2184	570	32	1437
Horses to harness. Apparatus for training	C. F. Shedd	317,865	May 12	1255	333	31	761
Horses. Vehicle device for checking	W. W. Leonard	320,282	June 16	1756	467	31	1383
Horses. Vehicle device for checking	E. B. Taylor	313,697	Mar. 17	1173	306	30	1012
Horseshoe	C. M. Alexander	327,752	Oct. 6	325	83	33	57
Horseshoe	L. H. Bellamy	329,700	Nov. 3	308	93	33	420
Horseshoe	L. G. Claude	329,141	Oct. 27	2199	570	31	156
Horseshoe	R. Condon	315,736	Apr. 14	1057	277	31	156

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Horseshoe.....	R. B. Corcoran.....	327,772	Oct. 6	348	90	33	61
Horseshoe.....	J. B. Finch.....	325,664	Sept. 8	598	151	32	1133
Horseshoe.....	C. A. Floyd.....	330,006	Nov. 10	792	203	33	659
Horseshoe.....	F. B. Gardner.....	331,628	Dec. 1	566	144	33	1100
Horseshoe.....	W. W. Hallenbeck.....	326,290	Sept. 15	1439	375	32	1295
Horseshoe.....	C. Hoyer.....	328,676	Oct. 20	1546	403	33	296
Horseshoe.....	J. Hollinger, D. A. Wolgamot, and A. B. Gousser.....	326,738	Sept. 22	2056	534	32	1414
Horseshoe.....	J. Johnson.....	314,563	Mar. 31	9091	558	30	1217
Horseshoe.....	J. Knoler.....	334,562	Aug. 13	1568	433	32	630
Horseshoe.....	E. F. Lowry.....	317,658	May 12	979	253	31	709
Horseshoe.....	F. F. Lutz.....	319,103	June 2	211	55	31	1086
Horseshoe.....	G. F. Messinger.....	318,276	May 19	1798	461	31	871
Horseshoe.....	W. F. Raymond.....	317,200	May 5	316	94	31	592
Horseshoe.....	L. Schwaab.....	323,601	Aug. 4	288	83	32	575
Horseshoe.....	C. A. Scott.....	319,749	June 9	1049	278	31	1250
Horseshoe.....	C. Sheather.....	322,564	July 21	1563	412	32	299
Horseshoe.....	W. Somerville, Sr.....	322,652	July 21	1673	443	32	320
Horseshoe.....	A. L. Stevens.....	323,082	July 28	2221	603	32	438
Horseshoe and horseshoe-blank.....	T. H. Heard.....	320,471	June 23	2099	553	31	1453
Horseshoe-bar.....	A. T. Culver.....	321,420	July 7	8	2	32	4
Horseshoe-bender.....	W. S. Kleinger.....	320,258	June 16	1752	466	31	1322
Horseshoe-blank.....	P. F. Greenwood.....	320,350	June 16	1921	506	31	1411
Horseshoe-blank.....	A. W. Hamaker and J. E. Peck.....	320,451	Nov. 3	29	9	33	510
Horseshoe-blanks. Machine for bending.....	G. W. Bowen.....	329,098	Nov. 10	781	200	33	638
Horseshoe-block.....	G. G. Snyder.....	314,890	Mar. 31	2518	667	30	1295
Horseshoe-calks. Treating stock for.....	C. H. Perkins.....	312,505	Feb. 17	1445	396	30	632
Horseshoe. Detachable.....	E. Hunziker.....	319,906	June 9	1277	336	31	1289
Horseshoe. Detachable.....	G. G. Schroeder.....	322,398	July 14	1326	345	32	252
Horseshoe. Expanding.....	C. C. Allen.....	322,671	July 21	1697	450	32	325
Horseshoe-machine.....	J. D. Billings and D. Mueller.....	330,670	Nov. 17	1653	444	33	838
Horseshoe-machine.....	J. N. Clarke, Jr.....	325,054	Aug. 25	2251	618	32	904
Horseshoe-machine.....	L. G. Claude.....	328,461	Oct. 20	1250	325	33	243
Horseshoe-machine.....	D. J. Farmer.....	331,623	Dec. 1	574	141	33	1098
Horseshoe-machine.....	D. J. Farmer.....	331,624	Dec. 1	578	141	33	1099
Horseshoe-machine.....	Z. V. Purdy.....	315,961	Apr. 14	1369	354	31	253
Horseshoe-machine.....	C. R. Wedelin.....	318,838	May 26	2550	681	31	1016
Horseshoe-machine.....	W. D. Young.....	315,206	Apr. 7	321	78	31	58
Horseshoe-nail.....	J. A. Coleman.....	333,396	Dec. 29	3079	804	33	1574
Horseshoe-nail.....	J. C. Kearns.....	322,542	July 21	1526	402	32	294
Horseshoe-nail.....	J. C. Simpson.....	310,231	Jan. 6	88	23	30	19
Horseshoe-nail.....	B. Watkins.....	332,464	Dec. 15	1769	463	33	1327
Horseshoe-nails. Machine for finishing.....	E. Croft.....	329,538	Nov. 3	157	40	33	535
Horseshoe-nails. Machine for marking.....	C. W. Woodford.....	320,423	June 16	2029	532	31	1431
Horseshoe-pad.....	D. Meredith.....	320,193	Oct. 27	2274	588	33	434
Horseshoe-pad.....	M. S. Starkweather.....	322,861	July 21	1959	519	32	372
Horseshoe-swinging machine.....	D. J. Farmer.....	331,625	Dec. 1	581	143	33	1099
Horseshoe-swinging machine.....	D. J. Farmer.....	331,626	Dec. 1	583	143	33	1099
Horseshoe-toe-calk.....	J. Adams.....	325,145	Aug. 25	2363	651	32	985
Horseshoe's box.....	J. Gibbs.....	333,213	Dec. 29	2684	742	33	1580
Horseshoes. Detachable calk for.....	J. A. Allen.....	318,939	June 2	2	1	31	1049
Horseshoes. Machine for cutting toe-calks for.....	W. A. Sweet.....	321,659	July 7	3	88	32	63
Horseshoes. Machine for forming clips on.....	A. Andersen.....	315,581	Apr. 14	861	226	31	160
Horseshoes. Machine for forming clips on.....	A. Andersen.....	315,592	Apr. 14	862	227	31	160
Horseshoes. Making.....	J. B. White.....	330,534	Nov. 17	1489	398	33	804
Horseshoes. Manufacture of.....	L. G. Claude.....	324,360	Aug. 18	1304	354	32	781
Horseshoes. Manufacture of.....	L. G. Claude.....	324,361	Aug. 18	1306	355	32	781
Horseshoes. Manufacture of.....	P. F. Greenwood.....	320,349	June 16	1920	506	31	1411
Hose. Apparatus for the manufacture of india-rubber.....	J. Murphy.....	323,062	July 28	2255	596	32	433
Hose-bridge.....	J. Kurz.....	333,310	Dec. 29	2975	779	33	1557
Hose-bridge for railway-tracks. Fire.....	G. F. Canniff, Jr.....	324,224	Aug. 11	1122	305	32	739
Hose-carriage.....	C. A. Blumh.....	318,444	May 26	2027	546	31	922
Hose-carriage.....	S. R. McLaughlin.....	320,429	June 23	2119	558	31	1456
Hose-carriage.....	E. F. Steck.....	328,930	Sept. 22	2322	608	32	1463
Hose-case or box. Fire.....	J. T. Hawkins.....	311,752	Feb. 3	340	104	30	420
Hose-coupling.....	J. B. Genin.....	333,066	Dec. 29	2620	687	33	1487
Hose-coupling.....	S. R. Hackley.....	310,672	Jan. 13	656	180	30	190
Hose-coupling.....	C. Hemje.....	322,220	July 14	1176	319	32	224
Hose-coupling.....	S. Lightburne, Jr.....	310,834	Jan. 13	859	233	30	168
Hose-coupling.....	L. F. Longmore.....	320,939	June 30	2702	717	31	1573
Hose-coupling.....	C. E. Mark.....	314,699	Mar. 31	2238	595	30	1244
Hose-coupling.....	C. E. Mark.....	329,326	Oct. 27	2466	637	33	471
Hose-coupling.....	J. Nusbeck.....	328,427	Oct. 13	1208	312	33	229
Hose-coupling.....	W. C. Parsels.....	331,998	Dec. 8	1111	229	33	1206
Hose-coupling.....	H. C. Serreant.....	314,066	Mar. 17	1397	365	30	1054
Hose-coupling.....	J. T. Titus.....	319,350	June 2	505	138	31	1144
Hose-coupling for street-washers.....	W. Stroug.....	326,604	Sept. 22	1642	453	32	1377
Hose. Device for repairing.....	C. P. Pierce.....	316,566	Apr. 23	2180	574	31	414
Hose-guard. Railway.....	W. X. Stevens.....	310,331	Jan. 6	236	64	30	45
Hose-jacket.....	A. W. Packer.....	332,163	Dec. 8	1363	353	33	1249
Hose. Machine for inserting couplings into.....	J. F. Mallinckrodt.....	331,147	Nov. 24	2286	619	33	961

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Hose-manipulator.....	J. Roby.....	329,339	Oct. 27	2488	642	31	474
Hose manipulator. Fire.....	J. Roby.....	310,830	Apr. 28	2561	671	31	484
Hose. Manufacture of.....	A. T. Holt.....	323,149	July 28	2364	627	32	454
Hose-nozzle. Valved.....	J. Ashworth.....	325,720	Sept. 8	682	170	32	1147
Hose-nozzle.....	F. W. Robertshaw.....	330,740	Nov. 17	1751	471	31	855
Hose-nozzle.....	E. R. Tomlinson.....	319,148	June 2	262	69	31	1085
Hose or tubing.....	E. D. Eames.....	314,440	Mar. 24	1292	505	30	1156
Hose-patch.....	S. T. Brooks.....	326,012	Sept. 8	1050	267	32	1216
Hose-patch.....	G. W. Towle, Jr.....	312,406	Feb. 17	1296	358	30	605
Hose-pipe. Spring-armored.....	J. A. Conltaus.....	325,591	Sept. 1	497	124	32	1110
Hose-reel.....	L. C. Baldwin.....	321,172	June 30	3011	797	31	1822
Hose. Rubber.....	A. Bruegger, Jr.....	331,374	Dec. 1	166	42	33	1028
Hose, sleeve, and garment supporter.....	C. J. Haley.....	320,470	June 23	2097	553	31	1452
Hose. Street-bridge for fire.....	H. Herrmann and W. B. Doolittle.....	322,287	July 14	1177	309	32	284
Hose-tower and fire-escape.....	W. M. Ward.....	317,899	May 12	1300	348	31	770
Hose-truck.....	H. P. Copo.....	332,589	Dec. 15	1959	513	33	1339
Hose-wagon.....	E. F. Steck.....	325,990	Sept. 8	1019	960	32	1210
Hose with wire. Machine for covering.....	G. B. Durkee.....	318,457	May 26	2042	552	31	925
Hose with wire. Machine for covering.....	C. W. Kimball.....	330,332	Nov. 10	1209	323	33	745
Hosiery.....	E. E. Scatchard.....	317,861	May 12	1251	334	31	760
Hosiery. Device for exhibiting.....	J. A. Kessel.....	331,717	Dec. 1	708	175	33	1123
Hot air and steam for heating purposes and power. Apparatus for combining.....	W. T. Fenton and D. S. B. Bennet.....	320,768	June 23	2476	656	31	1525
Hot-air engine.....	A. P. Hurd.....	325,805	Sept. 8	796	200	32	1168
Hot-air engine.....	J. J. McTighe.....	321,739	July 7	438	116	32	82
Hot-air engine.....	J. A. Woodbury, J. Merrill, and G. Patten.....	324,060	Aug. 11	883	943	32	694
Hot-air engine.....	J. A. Woodbury, J. Merrill, G. Patten, and E. F. Woodbury.....	324,061	Aug. 11	886	944	32	695
Hot-air engine.....	J. A. Woodbury, J. Merrill, G. Patten, and E. F. Woodbury.....	325,640	Sept. 1	561	945	32	1121
Hot-air engine.....	J. A. Woodbury, J. Merrill, G. Patten, and E. F. Woodbury.....	327,748	Oct. 6	319	143	33	56
Hot-air furnace.....	J. R. Darker.....	326,741	Sept. 22	1753	458	32	1361
Hot-air furnace.....	C. M. Baxter.....	331,025	Nov. 24	2115	573	33	921
Hot-air furnace.....	S. T. Bryce.....	319,062	June 2	159	43	31	1076
Hot-air furnace.....	H. B. Dewey.....	324,239	Aug. 11	1137	399	32	742
Hot-air furnace.....	B. W. Felton.....	313,065	Mar. 3	39	10	30	785
Hot-air furnace.....	M. H. Jacobs.....	322,107	July 14	958	249	32	123
Hot-air furnace.....	O. Jones.....	315,040	Apr. 7	76	18	31	15
Hot-air furnace.....	A. Mann.....	311,502	Feb. 3	57	17	30	359
Hot-air furnace.....	T. Nugent.....	311,845	Feb. 3	493	135	30	441
Hot-air furnace.....	C. W. Oakes and E. B. Camp.....	321,632	July 7	301	80	32	37
Hot-air furnace.....	L. Patric.....	317,005	May 5	101	26	31	541
Hot-air furnace.....	H. Robinson.....	323,425	Dec. 29	3121	815	33	1351
Hot-air furnace.....	I. D. Smead.....	326,598	Sept. 22	1833	422	32	1370
Hot-air furnace.....	E. A. Tuttle.....	311,152	Jan. 20	1312	361	30	256
Hot-air furnace.....	E. A. Tuttle.....	311,153	Jan. 20	1313	361	30	256
Hot-air generator for fire-places.....	J. S. Deardorff.....	313,998	Mar. 17	1313	343	30	1038
Hot-air register.....	A. C. Tuttle.....	323,089	Dec. 22	2660	698	33	1464
Hot-water boiler.....	J. Goering.....	332,147	Dec. 8	1345	348	33	1245
House: See Bath-house. Smoke-house. Chicken-house. Tobacco-curing house. Corn-house.							
House-furnace.....	J. Spear.....	325,281	Sept. 1	70	31	32	1029
House. Portable.....	W. Elford.....	323,030	July 28	2213	586	32	494
House-raising apparatus.....	T. F. Maher.....	332,811	Dec. 22	2262	596	33	1422
House. Tenement.....	W. Sturm.....	332,457	Dec. 15	1761	461	33	1326
Houses. Construction of.....	A. Hubbard.....	316,495	Apr. 22	9660	683	31	502
Houses fire-proof. Device for rendering wooden.....	J. N. Glover.....	311,309	Jan. 27	1543	420	30	304
Hub.....	W. P. Bettendorf.....	329,084	Oct. 27	2001	520	33	327
Hub.....	A. M. Brown.....	330,771	Nov. 17	1789	422	33	822
Hub and axle. Vehicle.....	C. P. Robertson and J. R. Hicks.....	325,769	Sept. 8	747	187	32	1160
Hub-attaching device.....	G. A. Keene.....	317,144	May 5	226	73	31	575
Hub-attaching device.....	C. T. Wecker.....	321,068	June 30	2263	767	31	1606
Hub-band.....	T. Brown.....	321,792	July 7	519	137	32	97
Hub-band.....	A. S. Parker.....	325,692	Sept. 8	630	159	32	1122
Hub-boxing gage.....	W. J. Matern.....	328,090	Oct. 20	1576	410	33	301
Hub-cap.....	A. F. Taylor.....	310,332	Jan. 6	238	65	30	45
Hub. Vehicle.....	F. P. Circle.....	315,242	Apr. 7	368	91	31	67
Hub. Vehicle.....	J. Dump.....	321,424	July 7	16	4	32	6
Hub. Vehicle.....	P. Gilles and M. Link.....	310,576	Jan. 13	536	147	30	106
Hub. Vehicle.....	J. Maris.....	317,159	May 5	312	79	31	520
Hub. Vehicle.....	P. P. Smith.....	322,759	July 21	1812	479	32	346
Hub. Vehicle.....	F. W. Starr.....	323,863	July 21	1962	519	32	373
Hub. Vehicle.....	D. C. Stover.....	320,609	Nov. 17	1836	495	33	572
Hub. Vehicle-wheel.....	A. Bradley.....	324,318	Aug. 11	1115	308	32	737
Hub. Vehicle-wheel.....	C. W. Fillmore.....	324,927	Aug. 25	2062	570	32	923
Hub. Vehicle-wheel.....	C. W. Fillmore.....	324,928	Aug. 25	2063	570	32	923
Hub. Vehicle-wheel.....	J. C. Hollingsworth.....	314,024	Mar. 17	1347	351	30	1045
Hub. Vehicle-wheel.....	T. G. W. and L. McMeekin.....	316,560	Apr. 22	2173	572	31	401
Hub. Vehicle-wheel.....	W. G. Mercer.....	329,061	Oct. 27	2064	541	33	671
Hub. Wheel.....	G. S. Briggs.....	317,494	May 12	772	197	31	1195
Hub. Wheel.....	F. W. Starr.....	319,623	June 9	751	201	31	1026
Hubs. Device for lining bands of wheel.....	E. Rothlisberger.....	318,927	May 26	2676	709	31	572
Hubbing-machine.....	W. R. Hartigan.....	317,131	May 5	268	67, 68	31	

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Huller:							
See Clover-huller.							
Grain-huller.							
Rice-huller.							
Seed-huller.							
Hulling-machine	S. Spitzer	329,230	Oct. 27	2326	602	33	445
Hydrant	Z. E. Coffin	330,377	Nov. 17	1288	341	33	766
Hydrant	J. Jones	310,042	Apr. 21	1472	384	31	280
Hydrant	O. P. Pence	325,764	Sept. 8	739	185	32	1158
Hydrant	F. Peter and H. Ruppel	327,822	Oct. 6	414	108	33	73
Hydrant	H. Ruppel	313,452	Mar. 3	579	149	30	884
Hydrant	W. Ryle	310,253	Jan. 13	883	239	30	173
Hydrant	G. A. Warner	313,265	Mar. 3	335	82	30	837
Hydrant	P. White	312,686	Feb. 24	1673	461	30	684
Hydrant and plug	G. A. Warner	328,988	Oct. 27	1976	513	33	382
Hydrant and street washer	B. F. Courtwright	322,137	Dec. 8	1327	344	33	1243
Hydrant. Self-closing	J. Dowling and J. Lee, Jr.	330,776	Nov. 17	1793	483	33	863
Hydraulic dirt-conveyer	A. Boshke	321,573	July 7	227	60	32	45
Hydraulic elevator	N. C. Bassett	331,273	Dec. 1	6	2	33	1002
Hydraulic elevator	P. F. Morey	332,418	Dec. 15	1713	449	33	1317
Hydraulic elevator	G. H. Reynolds	322,614	Oct. 20	1456	{ 379 380 }	33	280
Hydraulic elevator	H. F. Shaw	316,070	Apr. 21	1511	394	31	226
Hydraulic elevator for buildings	A. Stirling	315,970	Apr. 14	1382	358	31	256
Hydraulic-elevator valve	G. H. Reynolds	323,367	July 28	2686	715	32	511
Hydraulic elevators. Regulator for	Q. N. Evans	327,074	Sept. 29	2510	655	32	1503
Hydraulic engine	S. N. Knight	314,689	Mar. 31	2223	591	30	1241
Hydraulic engine	P. B. Perkins	325,965	Sept. 8	990	252	32	1205
Hydraulic engine	N. J. Tubbs	314,276	Mar. 24	1675	{ 445 446 447 }	30	1114
Hydraulic engine or motor	L. O. Dehnell	328,299	Oct. 13	1019	265	33	193
Hydraulic jack	J. Weeks	330,760	Nov. 17	1777	479	33	860
Hydraulic jack	J. Weeks and H. Traver	330,759	Nov. 17	1775	479	33	860
Hydraulic jack for cranes	W. F. Durfee	323,403	Aug. 4	26	7	32	528
Hydraulic motor	C. G. Wurster	330,863	Nov. 17	1909	{ 516 517 }	33	885
Hydraulic motor	N. Yagn	310,770	Jan. 13	785	212	30	154
Hydraulic press	C. S. Hamilton	320,551	Nov. 3	179	47	33	539
Hydraulic press	D. C. Mayo	316,048	Apr. 21	1420	337	31	261
Hydraulic press attachment	O. R. Nelson	321,745	July 7	447	{ 118 119 }	32	83
Hydraulic-pressure regulator and ram	B. Thoens	328,730	Oct. 20	1619	421	33	309
Hydraulic regulator	J. B. Gorrell	316,722	May 26	2368	639	31	989
Hydraulic steam, air, and vacuum brake	H. C. McCarty	330,795	Nov. 17	1820	490	33	668
Hydraulic testing-machine	U. Cummings	322,500	July 21	1862	495	32	355
Hydrocarbon-burner	J. B. Apple	323,385	Aug. 4	3	1	32	522
Hydrocarbon-burner	H. A. Bradley	322,676	July 21	1702	451	32	326
Hydrocarbon-burner	L. Colburn	324,816	Aug. 25	1935	532	32	906
Hydrocarbon-burner	J. A. Cowles	312,976	Feb. 24	2052	560	30	751
Hydrocarbon-burner	G. Machlet	325,617	Sept. 1	526	133	32	1115
Hydrocarbon-burner	J. Marlon	330,599	Nov. 17	1562	418	33	819
Hydrocarbon-burner	J. Reilly	315,549	Apr. 14	805	212	31	160
Hydrocarbon-burners. Absorbent cowl for the chimneys of	R. J. Jacobus	326,565	Sept. 22	1782	468	32	1367
Hydrocarbon-burning apparatus	E. Baker	325,376	Sept. 1	203	52	32	1053
Hydrocarbon-burning apparatus	L. B. White	329,985	Nov. 10	759	194	33	654
Hydrocarbon-furnace	O. D. Orris	313,101	Mar. 3	82	21	30	792
Hydrocarbon-vapor burner	G. Myers and J. B. Wallace	316,385	Apr. 21	1930	509	31	362
Hydrocarbon-vapor burners. Generator for	A. M. Brainard	320,838	June 23	2557	677	31	1540
Hydrocarbon vapor or gas burner	A. M. Brainard	332,871	Dec. 22	2356	{ 622 623 }	33	1438
Hydrocarbons. Apparatus for burning volatilizable	H. De Bay and C. De Reassetti	317,444	May 5	704	177	31	650
Hydrogen. Manufacture of	G. E. Moore	314,342	Mar. 24	1766		30	1131
Hydrometer	H. Guth	317,453	May 5	717	180	31	653
Ice and apparatus therefor. Manufacture of	A. Schmitz	328,523	Oct. 20	1322	343	33	257
Ice and refrigerating machine	D. L. Holden. (Reissue)	10,590	Apr. 28	2720	708	31	514
Ice and snow. Machine for removing	J. F. Riethmayer	316,181	Apr. 21	1664	436	31	316
Ice. Apparatus for eliminating foreign substances from water for obtaining clear and pure	F. Jaeger	317,366	May 5	591	152	31	632
Ice by hand-power. Apparatus for hoisting and conveying	H. R. Conger	313,289	Mar. 3	365	91	30	843
Ice-cave or apparatus for freezing soufflés and molding ice-puddings, &c.	A. W. Marshall	322,117	July 14	972	253	32	186
Ice-cream for beer	A. B. Wroth	314,984	Mar. 31	2654	702	30	1319
Ice-cream pail. Sanitary	W. W. Woolsey	313,463	Mar. 3	596	152	30	887
Ice-cream and pudding mold	H. Eppelsheimer	330,305	Nov. 10	1179	315	33	739
Ice-cream box	F. W. Crocker	315,129	Apr. 7	187	46	31	34
Ice-cream can	M. J. Dixon and J. W. Wallace	321,954	July 14	752	196	32	145
Ice-cream freezer	J. P. Anderson and J. C. Keller	326,827	Sept. 22	2160	569	32	1436
Ice-cream freezer	J. H. Dunbar	317,446	May 5	707	178	31	651
Ice-cream freezer	G. M. Mills	314,863	Mar. 31	2423	{ 657 658 }	30	1290
Ice-cream freezer	T. A. Naylor	312,287	Feb. 17	1443	313	30	576
Ice-cream freezer	C. W. Packer	313,760	Mar. 10	964	254	30	969
Ice-cream freezer	A. L. Platt	323,732	Aug. 4	457	120	32	608
Ice-cream freezer	J. G. Webb	332,466	Dec. 15	1770	{ 461 464 }	33	1327
Ice-cream. Packing and preserving	M. T. Finsell	310,266	Jan. 6	141		30	23
Ice-creper	H. L. Fitch	312,366	May 19	1926	520	31	895
Ice-creper	P. B. Laird	319,729	June 9	1040	272	31	1246
Ice-creper	M. B. Mayer	320,945	June 30	2709	719	31	1574
Ice-creper	W. McNice	319,291	June 2	433	116	31	1130
Ice-creper	H. S. Pullman	330,512	Nov. 17	1464	391	33	799
Ice-creper	L. H. Scott	329,496	Nov. 3	98	26	33	524
Ice-creper	J. J. Temple	313,898	Mar. 17	1176	306	30	1012

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Ice-creepers. Screw adapted for	M. A. Thrig	315,293	Apr. 7	430	108	31	78
Ice-cutting machine	I. Clowfoot	313,985	Mar. 17	1309	349	30	1037
Ice-cutting machinery	W. S. Moyer	323,163	Aug. 25	2417	064	32	994
Ice-elevator mechanism	J. R. Eccles	312,616	Feb. 24	15-3	431	30	667
Ice-harvesting apparatus	C. B. Church	314,651	Mar. 31	2184	379	30	1223
Ice-holder for butter-dishes, &c.	F. H. Hawkins	315,619	Apr. 14	900	236	31	167
Ice-hook	J. G. Bodenstein	311,639	Feb. 3	240	67	30	394
Ice-hook	G. W. Palmer and G. W. Kidder	320,680	June 23	2374	628	31	1304
Ice-machine	J. Bouchard	319,551	June 9	772	209	31	1362
Ice-machine	H. A. Flens	326,027	Sept. 8	1070	273	32	1220
Ice-machine	W. H. Haney	315,479	Apr. 14	723	191	31	135
Ice-machine	A. R. Kenney	322,929	July 21	1909	507	32	363
Ice-machine	J. C. Kitton	311,013	Jan. 20	1112	304	30	220
Ice-machine	J. C. Kitton	314,337	Mar. 24	1758	469	30	1130
Ice-machine	S. Luscher	329,842	Nov. 3	566	144	31	610
Ice-machine	J. M. W. Neff	322,550	July 21	1535	405	32	225
Ice-machine	T. L. Rankin	316,824	Apr. 28	2547	666	31	428
Ice-machine	T. L. Rankin	322,361	Dec. 15	1639	429	33	1305
Ice-machine	O. Vezin	328,624	Oct. 20	1478	326	33	223
Ice-machine. Absorption	C. H. Evans	318,971	June 2	57	14	31	1054
Ice-machine compressor	F. Stitzel	323,749	Aug. 4	476	135	32	612
Ice-making apparatus. Compressor for	A. T. Ballantine	313,045	Mar. 3	7	2	30	780
Ice-making apparatus. Valve for compressors for	A. T. Ballantine	317,963	May 19	1394	374	31	726
Ice-pick	E. Rogers	314,723	Mar. 31	2275	604	30	1240
Ice-planer	T. D. Loring and A. P. Giles	329,400	Oct. 27	25-4	866	33	491
Ice-plow	J. G. and H. Bodenstein	332,477	Dec. 15	1789	470	33	1330
Ice, refrigerating, &c. Mode of and apparatus for making	A. G. Southly	331,457	Dec. 1	287	78	33	1650
Ice-scraper	D. Boyd	310,176	Jan. 6	21	6	30	6
Ice-scraper	L. Hallowell	311,746	Feb. 3	371	102	30	418
Ice-shaver grip	H. G. Carnell	320,624	June 23	2302	608	31	1190
Ice-tongs	G. J. Dickson, (Reissue)	10,548	Jan. 6	501	138	30	96
Ice-tongs	W. Dimond	314,169	Mar. 17	1538	402	30	1072
Ice-tongs	G. H. Wertler	329,523	Nov. 3	140	36	33	531
Illuminating basements	P. H. Jackson	314,026	Mar. 17	1351	352	30	1045
Illuminating device	C. A. Leager, G. S. Pierce, and R. A. Canterbury	322,541	Dec. 15	1292	494	33	1347
Incandescent light	O. B. Fahnnehjelm	312,452	Feb. 17	1362	376	30	618
Incandescent. Apparatus for carbonizing	O. A. Moses	316,993	May 5	86	23	31	538
Incandescent. Furnace for baking	C. Coultass	323,500	Aug. 4	154	45	32	550
Incandescent. Making	J. A. Cabot	324,981	Aug. 25	2154	529	32	946
Incandescent. Making	H. H. Grubbe	323,310	July 22	2615	292	32	499
Incandescent. Making	C. J. Van Depoele	324,193	Aug. 11	1085	292	32	732
Incandescent. Manufacture of	P. N. Mackay	325,257	Sept. 1	31	32	32	1021
Incandescent. Manufacture of	E. Weston	310,761	Jan. 13	770	209	30	151
Incandescent. Mold for making	O. A. Moses	321,309	June 30	3176	847	31	1650
Incrustation. Device for preventing	J. H. Blessing	320,460	Nov. 17	1306	371	33	726
Incrustation-preventive	H. Girard	310,410	Jan. 6	327	30	30	64
Incubator	E. W. Andrews	324,033	Dec. 8	1171	306	33	1216
Incubator	C. Bassini and A. Heyden	320,457	Nov. 17	1391	370	33	726
Incubator	A. A. Gehman	321,712	July 7	403	107	32	75
Incubator	L. Kuhner	324,390	Aug. 18	1345	366	32	729
Incubator	W. F. Maulick	320,378	June 16	1970	518	31	1422
Incubator	C. S. Newsum	320,609	Nov. 17	1577	422	33	291
Incubator-thermostat	F. Humphreville	323,075	Dec. 22	2635	691	33	1429
Incubators. Automatic heat-regulator for	E. W. Andrews	323,097	Dec. 29	2673	701	33	1393
Incubators. Egg-tray for	G. W. and J. J. Thornburgh	320,526	Nov. 17	1483	397	33	263
Incubators. Egg-turning device for	L. Cutting	320,463	June 23	2090	551	31	1451
Incubators. Heat-regulating device for	J. K. Meschter	320,490	June 23	2120	529	31	1456
Incubators. Heat-regulating mechanism for	J. L. Consins	320,379	Nov. 17	1290	342	33	751
Incubators. Removable egg-tray for	F. Rosebrook	324,274	Aug. 11	1188	323	32	751
Index	G. T. Barton	320,225	Nov. 10	1153	306	33	223
Index	B. M. Payne	324,584	Aug. 18	1600	441	32	545
Index	R. H. Wyman	323,484	Aug. 4	128	37	32	506
Index-book	W. M. Kinnard	320,798	June 23	2509	664	31	1330
Index for paper-files	J. S. Shannon	321,259	Nov. 24	2454	663	33	291
Index or directory case	E. B. Martindale	324,861	Aug. 25	1993	547	32	446
Indicating device for sensitive instruments	G. B. St. John	329,237	Oct. 27	2234	604	33	446
Indicating-plate	W. A. Connelly	322,259	July 14	1145	299	32	217
Indicator							
See Barber's turn-indicator.	Movement-indicator.						
Base-ball or cricket field indicator.	Oven-heat indicator.						
Billiard-table-bridge-indicator.	Railway-switch indicator.						
Boiler-indicator.	Railway time-indicator.						
Electrical indicator.	Shallow-water indicator.						
Elevator-indicator.	Shoe-box indicator.						
High and low water indicator.	Speed-indicator.						
High-pressure indicator.	Station-indicator.						
Magneto-electric indicator.	Station train-indicator.						
Merchandise-indicator.	Steam-boller indicator.						
	Steam-engine indicator.						
	Time and interest indicator.						
	Time-piece-winding indicator.						
	Valve-indicator.						
Indicator	A. A. Merrifield	316,288	Apr. 21	1804	474	31	340
Indicator	G. H. Preston	313,235	Mar. 3	297	74	30	520

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Indicator-lock.	C. and W. Pearson	313,232	Mar. 3	294	74	30	130
Indicator-lock.	H. G. Stripe	318,218	May 19	1725	461	31	858
Induction and other electrical apparatus. Coll for.	L. Gaulard and J. D. Gibbs	316,354	Apr. 21	1885	49	31	354
Induction-coil.	W. Burnley	326,270	Sept. 15	1411	367	32	1289
Induction-coil.	F. E. Fisher	314,816	Mar. 31	2419	639	30	1278
Induction-coil.	T. J. Perrin	316,617	Apr. 28	2540	664	31	420
Induction-coil.	T. J. Perrin	329,772	Nov. 3	468	118	33	594
Induction-coil.	J. A. Robinson	332,559	Dec. 15	1916	501	33	1352
Induction-coil.	W. Stanley, Jr.	330,717	June 23	2414	640	31	1512
Induction disturbances. Apparatus for suppressing.	W. A. Jackson and J. C. Chambers	322,724	July 21	1776	467	32	338
Induction-machine.	P. Haerry	316,143	Apr. 21	1619	424	31	307
Induction. Neutralizing.	W. A. Jackson and J. C. Chambers	332,728	July 21	1774	468	32	339
Induction-neutralizing coil.	W. A. Jackson and J. C. Chambers	322,727	July 21	1773	468	32	338
Induction. Suppressing.	W. A. Jackson and J. C. Chambers	322,726	July 21	1772	468	32	338
Infant's posing-chair.	M. T. Baldwin	321,076	June 30	2891	769	31	1607
Ingot-mold.	B. Atha	330,281	Nov. 10	1145	304	33	731
Ingot-mold.	A. Reese	318,206	May 19	1707	457	31	855
Ingots. Apparatus for pressing.	E. B. Meatyard	328,329	Oct. 13	1062	275 276	33	201
Ingots. Apparatus for treating metal.	J. Giers	320,779	June 23	2489	659	31	1527
Ingots. Treating steel.	J. Giers	330,780	June 23	2490	660	31	1527
Inhaler.	C. C. Ellis	330,170	Nov. 24	2053	555	33	919
Inhaler.	C. B. Harness	311,814	Jan. 27	1551	422	30	305
Inhaler.	A. M. Long	313,445	Mar. 10	961	248	30	964
Inhaler.	A. M. Long	321,004	July 7	678	176	32	123
Inhaler.	U. K. Mayo	311,007	Feb. 10	602	165	30	408
Inhaler.	E. Nitz	311,776	Feb. 3	410	111	30	425
Inhaler.	J. F. Pond	324,161	Aug. 11	1024	280	32	720
Inhaler.	G. B. Snow	312,771	Feb. 24	1786	493	30	705
Inhaler.	W. B. Spencer	314,485	Mar. 24	1961	522	30	1167
Inhaler or respirator.	J. A. Miles	316,136	Apr. 28	2269	597	31	430
Inhalers. Gas-mixer for.	L. M. Davis	312,435	Feb. 17	1336	368	30	613
Injector.	J. S. Bancroft	322,442	July 14	1247	327	32	237
Injector.	J. S. Bancroft	331,178	Nov. 24	2325	630	33	969
Injector.	F. Desmond	330,864	Nov. 24	2047	554	33	918
Injector.	F. C. Douds	317,750	May 12	1096	282	31	731
Injector.	J. Gresham	318,892	May 26	2632	698	31	1030
Injector.	J. Gresham	319,481	June 9	696	187	31	1186
Injector.	J. Gresham	331,193	Nov. 24	2353	636	33	974
Injector.	J. T. Hancock	321,228	Aug. 4	569	162	32	630
Injector.	J. Jenks	314,533	Mar. 24	2023	540	30	1178
Injector.	W. Johnston	315,630	Apr. 14	913	240	31	170
Injector.	J. Loftus	326,758	Sept. 22	2079	541	32	1418
Injector.	W. B. Mack	318,636	May 26	2284	610	31	967
Injector.	J. M. Marty	328,294	Oct. 20	1426	371	33	275
Injector.	H. B. Murdock	328,434	Oct. 13	1204	311	33	228
Injector.	H. B. Murdock	331,154	Nov. 24	2296	622	33	963
Injector.	J. Reichmann	332,092	Dec. 8	1116	291	33	1207
Injector.	W. J. Sherriff	332,253	Dec. 22	2462	651	33	1400
Injector.	M. D. Strickland	333,086	Dec. 22	2653	695	33	1492
Injector.	O. Westphal	312,591	Feb. 17	1554	422 423	30	653
Injector and burner.	J. B. Mulloy	329,844	Nov. 3	568	145	33	611
Injector and ejector. Combined.	T. J. Hart	314,446	Mar. 24	1899	507	30	1157
Injector and ejector. Combined.	J. M. Marty	314,595	Mar. 31	2103	561	30	1219
Injector and injector-nozzle.	O. Westphal	322,768	July 21	1825	482	32	348
Injector-condenser.	T. Foulds	317,110	May 5	234	59	31	566
Injector. Feed-water.	J. Loftus	311,500	Feb. 3	55	16	30	350
Injector. Hydrocarbon.	W. M. Bribben	317,712	May 12	1047	273	31	722
Injector. Steam.	J. Desmond	326,408	Sept. 15	1586	413	32	1323
Injector. Steam.	J. Desmond	330,662	Nov. 17	1668	449	33	841
Injector. Steam.	J. Desmond	332,368	Dec. 15	1673	438	33	1311
Injector. Steam-boiler.	J. Desmond	330,302	Nov. 10	1173	312	33	737
Ink-grinder.	W. Y. Schmucker	313,246	Mar. 3	313	78	30	634
Ink-mixer. Draftsman's.	W. W. Redfield	313,239	Mar. 3	302	76	30	631
Ink-well guard.	A. M. Rittenhouse	311,678	Feb. 3	224	79	30	403
Inking-pad.	B. B. Hill	332,395	Dec. 15	1692	441	33	1312
Inkstand.	J. O. Anderson	330,455	Nov. 17	1390	370	33	785
Inkstand.	I. Brooke	321,185	June 30	3026	802	31	1631
Inkstand.	T. B. Cleveland	311,415	Jan. 27	1692	461	30	331
Inkstand.	M. J. Hughes	326,118	Sept. 15	1189	304	32	1248
Inkstand.	T. J. Little	326,044	Sept. 8	1091	278	32	1223
Inkstand.	R. Lockwood	324,303	Aug. 18	1348	367	32	790
Inkstand.	F. B. Woodhouse	323,249	July 28	2509	666	32	480
Inkstand and calendar. Combined.	F. A. Woodmansee	326,468	Sept. 15	1659	433	32	1336
Inkstand. School-desk.	A. H. Hill	319,815	June 9	1153	304	31	1268
Insect-destroyer.	D. H. Manning	330,033	Nov. 10	826	212	33	667
Insect-powder ejector.	J. Jaeger	311,004	Jan. 20	1100	301	30	217
Insect-powder gun.	C. and E. E. Chinnoek	312,252	Feb. 17	1082	298	30	565
Insect-powder gun.	W. P. Honchin	326,037	Sept. 8	1084	276	32	1222
Insect-powder gun.	D. M. Somers	326,600	Sept. 22	1835	482	32	1376
Insects. Destroying.	E. Chace	327,861	Oct. 6	461	120	33	82
Insects on plants. Device for destroying.	F. A. Ruhl	329,957	Nov. 10	725	185	33	647
Insecticide.	J. B. Hoag	312,270	Feb. 17	1105	30	30	569
Insecticide.	A. Müller	322,630	July 21	1644	32	315	
Insecticide.	R. Rueterholz	329,594	Nov. 3	233	33	549	
Insecticide composition.	F. M. Howard	314,531	Mar. 24	2022	30	1177	
Insecticide-wash.	F. H. Harman	325,169	Aug. 25	2394	32	991	
Inspirator.	P. P. Hogue	319,817	June 9	1155	305	31	1268
Instructor. Automatic.	W. L. Gates	319,224	June 2	349	94	31	1113
Instrument of stationery.	J. W. Turner	333,088	Dec. 22	2659	698	33	1493
Insuflator.	A. Kibele	310,444	Jan. 6	361	99	30	70
Insulated conductor.	H. C. Spalding	327,464	Sept. 29	3023	789	32	1592
Insulated electrical conductor.	H. C. Spalding	327,467	Sept. 29	3027	790	32	1593

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &	Vol.	Page.
Insulated electrical conductor	W. P. Thomas and E. J. Frost	312,405	Feb. 17	1295	358	36	605
Insulating and anti-induction tube for electric conductors.	F. B. Rae	325,630	Sept. 1	547	139	32	1119
Insulating-blocks for electrical conductors. Manufacture of	H. C. Spalding	327,465	Sept. 29	3024	790	32	1592
Insulating compound for electrical cables, &c.	H. C. Spalding	327,462	Sept. 29	3021		32	1592
Insulating electric wires. Compound for	R. S. Ferguson, W. Schumacher, and W. Tubman.	330,921	June 30	2679		31	1568
Insulating. Manufacture of and preparation of materials to be employed for	J. L. Clark	318,233	May 19	1747		31	862
Insulating, &c. Manufacture of compounds to be used for	A. Mulrhead	310,957	Jan. 20	1034		30	904
Insulating material. Composition of matter for use as.	I. P. Wendell	325,890	Sept. 8	893		32	1187
Insulating material. Composition of matter for use as.	I. P. Wendell	325,891	Sept. 8	894		32	1187
Insulating material. Die for covering wire with.	G. M. Cruickshank	326,021	Sept. 8	1062	270	32	1216
Insulating materials. Preparation and production of	J. A. Fleming	319,084	June 2	188		31	1063
Insulating pipe-union	C. H. Fischer	330,645	June 23	2326	615	31	1494
Insulating-tube for electric wires	H. B. Cobb	330,673	Nov. 24	1924	522	33	895
Insulating-tube for electric wires	S. B. Cobb	330,874	Nov. 24	1925	522	33	895
Insulating underground electric conductors. Compound for	H. C. Spalding	327,477	Sept. 29	3037		32	1595
Insulating wires. Applying gum-balata for	P. C. Matherson	326,132	Sept. 15	1214		32	1253
Insulation of telegraph-wires. Composition of matter for the preservation of paper or vegetable tubing used for the	J. W. Ellis	319,079	June 2	181	48	31	1061
Insulator	G. L. Broomhall	319,447	June 9	647	175	31	1178
Insulator	T. McGroary	323,055	July 28	2247	584	32	431
Insulator	L. O. Smith	328,728	Oct. 20	1617	421	33	309
Insulator-clips. Machine for making	E. Dodge	319,206	June 2	326	87	31	1109
Insulator. Electric-lamp	J. R. Fletcher	323,504	Aug. 4	160	47	32	552
Insulator. Electric-wire	J. Locke and W. Bowker	316,460	Apr. 28	2063	541	31	391
Insulator. Electric-wire	E. T. Schoonmaker	321,646	July 7	317	84	32	61
Insulator. Electrical	H. Kellogg	315,633	Apr. 14	916		31	1171
Insulator and supporter. Electric-wire	W. N. Fawcett and G. F. Huntley	328,929	Oct. 27	1677	490	33	384
Insulator for electric wires	W. H. Wright	317,479	May 5	748	189	31	656
Insulator for securing telegraph and other wires.	G. W. Hill	324,692	Aug. 18	1763	496	32	886
Insulator for telegraph-wires. Supporting.	H. Frenzel	315,660	Apr. 14	948	248	31	177
Insulator for tracks	L. Daft	320,631	June 23	2311	610	31	1491
Insulator for tracks	L. Daft	320,633	June 23	2313	611	31	1492
Insulator. Telegraph	B. N. Deblieux	322,061	Dec. 8	1207	315	33	1223
Insulator. Telegraph	J. O'Brien	316,819	Apr. 28	2534	612	31	479
Insulator. Telegraph	G. D. Putnam	324,957	Aug. 25	2122	580	32	941
Insulators and other glass articles. Press for the manufacture of	J. W. Weyman	310,464	Jan. 6	407	112	30	79
Insulators. Clamp for binding wires to	W. H. Sawyer	313,377	Mar. 3	475	194	30	865
Interfering-pad for horses	D. B. Bleser	326,010	Sept. 8	1048	267	32	1215
Interlocking eyes. Machine for forming	R. Faries	321,013	June 30	2803	745	31	1591
Interlocking switch and signal apparatus	J. T. Hambay	322,283	July 14	1171	307	32	223
Intestines. Machine for cleaning	C. Nida	318,130	May 19	1612	431	31	836
Invalid-chair	L. W. Serrell	315,069	Apr. 14	959	251	31	179
Invalid-supporter	S. J. and M. G. Rhoads	312,763	Feb. 24	1778	490	30	703
Invalids. Appliance for the support of	F. F. Marsh	319,293	June 2	420	112	31	1197
Invalid's convertible chair and bed	P. C. S. Henderson	328,944	Oct. 27	1903	497	33	369
Iodoform, bromoform, and chloroform. Manufacture of	T. Kempf	322,940	July 28	2075	498	32	400
Iron							
See Angle-iron.	Holdback-iron.						
Branding-iron.	Sad-iron.						
Corner-iron.	Soldering-iron.						
Hair-frizzing iron.	Tuyere-iron.						
Iron and steel. Apparatus for manufacturing	B. Bayliss, Jr.	322,475	Dec. 15	1786	468	33	1330
Iron and steel. Apparatus for the manufacture of	T. Williamson	331,267	Nov. 24	2466	665	33	993
Iron and steel. Apparatus for the manufacture of	J. P. Witherow	315,587	Apr. 14	856	225	31	179
Iron and steel bar. Combined	L. G. Claude	328,032	Oct. 20	1516	394	33	292
Iron and steel. Compound for purifying	W. H. Purdy	322,557	July 21	1547		32	297
Iron and steel. Ingot	J. P. Witherow, H. W. Oliver, Jr., J. F. Wilcox, and G. E. Tener.	314,505	Mar. 24	1988		30	1172
Iron and steel. Making ingot	J. P. Witherow, H. W. Oliver, Jr., J. F. Wilcox, and G. E. Tener.	314,506	Mar. 24	1989		30	1173
Iron and steel. Manufacture of	J. Grottenbaler	311,830	Feb. 3	477		30	438
Iron and steel. Manufacturing	B. Bayliss, Jr.	313,079	Mar. 3	52	14, 15	30	787
Iron and steel. Purifying	W. H. Purdy	322,558	July 21	1548		32	297
Iron direct from iron ores. Making wrought	C. J. Eames	318,551	May 26	2189		31	950
Iron direct from the ore. Manufacturing wrought and steel	C. J. Eames	318,607	May 26	2250		31	961
Iron directly from the ore. Manufacturing sponge and wrought	C. J. Eames	318,553	May 26	2192		31	950
Iron into steel. Apparatus for converting	P. L. Welmer	324,903	Aug. 25	2052	561	32	927
Iron. Making sheet	W. D. Wood	310,334	Jan. 6	263		30	50
Iron. Making wrought	W. Price	523,365	July 28	2683	714	32	511
Iron. Manufacture of	J. J. Johnston	312,641	Feb. 24	1616	444	30	674
Iron. Manufacture of sheet	I. E. Craig	321,693	July 7	261	102	32	71
Iron or steel. Machine for splitting bars and sheets of	C. M. Carnahan	314,221	Mar. 24	1600	422	30	1100
Iron or steel. Manufacturing	J. Lietget y Sarda	324,730	Aug. 18	1889		32	890
Iron. Pile for merchant	G. Westerman, Sr.	316,209	Apr. 21	1697	445	31	322
Iron. Pile for sheet	D. B. Oliver	310,711	Jan. 13	709	193	30	141

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Iron post.	J. McKenzie and J. Fyfe	317,558	May 12	849	218	31	686
Iron. Purifying pig.	J. P. Witherow	314,504	Mar. 24	1987	530	30	1172
Iron. Removing silicon from wrought.	W. A. O. Wuth	311,159	Jan. 20	1318		30	257
Iron sponge, wrought and steely irons directly from the ore. Manufacturing	C. J. Eames	318,552	May 26	2190		31	950
Iron. Surface-coating	P. H. Conradson	311,294	Jan. 27	1527		30	301
Iron. Utilizing the waste cuttings of tinned	J. H. Kolb	322,833	July 21	1917		32	365
Iron. Utilizing waste hoop.	W. E. Harris	314,378	Mar. 24	1810	481	30	1140
Iron. Utilizing waste hoop.	W. E. Harris. (Relasue)	10,620	July 7	723	189	32	131
Iron wheel	P. Schember	315,346	Apr. 7	494	125	31	90
Ironing-board	J. Delaney	317,932	May 12	1340	360	31	778
Ironing board and table.	A. A. Wyseong	316,928	Apr. 28	2709	706	31	511
Ironing board and table. Combined	M. Ransom	330,618	Nov. 17	1590	425	33	824
Ironing clothes	O. B. Wickham	329,797	Nov. 3	405	125	33	509
Ironing-machine	C. Angus	321,671	July 7	349	93	32	66
Ironing-machine	F. Corbett	324,088	Aug. 11	921	255	32	701
Ironing-machine	A. T. Hagen	326,556	Sept. 22	1770	463	32	1365
Ironing-machine	C. A. Lieb and C. L. Heins	330,032	Nov. 10	825	212	33	666
Ironing-machine	C. Marck	323,174	July 28	2401	637	32	461
Ironing-machine	L. H. Watson	332,026	Dec. 8	1161	{ 303 304 }	{ 33 33 }	1214
Ironing-table	W. H. Bell	313,220	Mar. 3	352	87	30	848
Ironing-table	J. Borton	319,445	June 9	644	174	31	1177
Ironing-table	B. C. Dawson	332,140	Dec. 8	1335	345	33	1244
Ironing-table	J. M. Ellison	326,857	Sept. 22	2225	581	32	1444
Ironing-table	H. C. Hough	310,363	Apr. 21	1809	503	31	357
Ironing-table	M. J. Jerome	322,783	Oct. 20	1673	436	33	320
Ironing-table	F. A. Johnson	326,744	Sept. 22	2061	536	32	1415
Ironing-table	F. A. Lerch	332,404	Dec. 15	1085	444	33	1315
Ironing-table	A. McBlair	330,721	Nov. 17	1722	464	33	851
Ironing-table	G. Race	320,950	Nov. 10	715	183	33	646
Ironing-table	I. C. Reid	326,455	Sept. 15	1643	430	32	1333
Ironing-table	J. M. Smyth	325,985	Sept. 8	1012	258	32	1209
Ironing-table	B. F. Snyder	311,384	Jan. 27	1652	451	30	324
Ironing-table and clothes-holder. Combined	M. Chilcoat	310,792	Jan. 13	808	219	30	158
Ironing-tablet	S. S. Myers	328,425	Oct. 13	1206	311	33	2228
Ironing-tablet.	C. Zimmerling	327,913	Oct. 6	529	137	33	95
Irrigating land. Apparatus for	E. Briggs	330,556	Nov. 17	1518	406	33	809
Irrigating. Movable gate for	J. A. Fry	321,593	July 7	255	67	32	49
Irrigation. System of	G. W. Jessup	315,629	Apr. 14	912	239	31	170
Isatins and substituted isatins. Manufacture of	P. J. Meyer	310,604	Jan. 13	571		30	116
Ivory. Plastic compound resembling	G. M. Mowbray	320,864	June 23	2620		31	1552
Jack:							
See Boot-jack.	Hoisting-jack.						
Boot or shoe jack.	Hydraulic jack.						
Car-replacing jack.	Lifting-jack.						
Carriage-jack.	Painter's jack.						
Carriage and wagon jack.	Power-jack.						
Compound jack.	Screw-jack.						
Heel-jack.	Shoe-finishing jack.						
Heel-burnishing-machine jack.	Shoe-maker's jack.						
Heeling-jack.	Wagon-jack.						
Heeling-jack.	Wheel-jack.						
Jack	J. Beecher and T. P. Smart	311,716	Feb. 3	331	92	30	411
Jack	A. L. Denno	318,702	May 26	2373	633	31	984
Jack. Hunting.	F. Walloch	323,987	Aug. 11	784	218	32	678
Jack. Knitted or Cardigan	S. Steinman and A. L. Seeligman	317,682	May 12	1011	262	31	714
Jar:							
See Drill-jar.	Glass jar.						
Fruit-jar.							
Jar-fastener	C. Watts	326,696	Sept. 22	1969	517	32	1400
Jar-fastening	P. Briody	321,575	July 7	222	61	32	45
Jar-fastening	G. W. Weyman	326,818	Sept. 22	2168	565	32	1434
Jar-fastening	G. W. Weyman	329,792	Nov. 3	490	124	33	598
Jar fastening. Preserve	R. B. Bard	323,101	July 28	2308	610	32	443
Jar for butter, &c.	D. W. Norris	319,641	June 9	1184	312	31	1273
Jar for solid extracts	J. K. Lilly	317,950	May 12	1365	367	31	783
Jar or other covered vessel	W. H. Clarke	314,109	Mar. 17	1457	381	30	1064
Jar protector and sealer	M. V. B. Enans	323,455	Dec. 29	3158	826	33	1587
Jar screw-cap	C. H. Taylor	318,829	May 26	2550	679	31	1014
Jar, &c., stopper	W. W. Gupitill	320,641	Sept. 22	1890	496	32	1385
Jar stopper. Preserve	J. Comly	323,636	Aug. 4	336	96	32	584
Jar-wrench and can-opener. Combined	A. Van Slyke	319,645	June 9	920	243	31	1226
Jelly-glass and money-box. Combined	J. F. Loebbe	326,757	Sept. 22	2078	540	32	1418
Jetties. Building	R. S. Littlefield	324,857	Aug. 25	1920	547	32	915
Jetties. Constructing	J. C. Goodridge, Jr	331,127	Nov. 24	2255	613	33	956
Jetty	F. A. Hyatt	314,940	Mar. 31	2592	686	30	1308
Jetty	F. A. Hyatt	314,941	Mar. 31	2593	{ 687 687 }	{ 30 30 }	1308
Jetty, breakwater, or similar structure	E. M. Boynton	315,384	Apr. 7	545	141	31	99
Jewel-box	W. Schott	312,766	Feb. 24	1781	491	30	704
Jewel-setting	G. Becker	332,183	Dec. 8	1386	358	33	1253
Jeweler's press	L. P. Bosworth	313,650	Mar. 10	838	218	30	942
Jeweler's dust-box	J. A. Sherwood	320,593	June 23	2258	597	31	1483
Jewelers' findings. Manufacture of	G. H. Fuller	323,927	Aug. 18	706	198	32	664
Jewelers' rolls	A. Flatow	316,135	Apr. 21	1612	421	31	305
Jewelers and engravers. Holding-tool for	A. Kuder	327,558	Oct. 6	75	16	33	14
Jewelry	L. Grebenau	324,681	July 14	1744	480	32	862
Jewelry. Electric	A. Hald	313,726	Mar. 10	930	241	30	960
Jewelry manufacture	T. W. Foster	312,833	Feb. 24	1877	514	30	720
Jewelry. Manufacture of imitation	F. J. Hafner	330,230	Nov. 10	1080	285	33	719
Jewelry-pin	H. Fletcher	322,364	Sept. 15	1283	335	32	244
Jewelry-pins, &c. Catch for	C. E. Carpenter	326,477	Aug. 11	1668	436	32	1338

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr-g.	Vol.	Page.
Jib-furler	W. P. and A. M. Cutler	311,964	Feb. 10	666	188	30	483
Jib-hank	J. L. Bradley and R. T. Smith	325,047	Aug. 25	2242	615	32	928
Joint:							
See Bridge-joint.	Rail-joint.						
Camera-tripod joint.	Railway-rail joint.						
Curtain-pole joint.	Rod-joint.						
Electric-cable joint.	Spring-joint.						
Expansion-joint.	Steam-boiler joint.						
Gas-tight expansion-joint.	Stove-pipe joint.						
Gimbal-joint.	Swing-joint.						
Hinge-joint.	Toggle-joint.						
Pipe-joint.	Tube-joint.						
Rafter-joint.	Universal joint.						
Joint for wire, wire rods, cables, &c	C. G. McLeod	328,502	Oct. 20	1298	338	33	253
Joint-locking device	E. L. Gaylord	313,183	Mar. 3	229	57	30	819
Joint-locking device	E. L. Gaylord	313,194	Mar. 3	230	57	30	819
Joints for fastenings.	E. L. Gaylord	313,198	Mar. 3	233	58, 59	30	820
Journal and bushing	H. J. White	318,065	May 19	1529	410	31	820
Journal-bearing	C. E. Barrett	310,532	Jan. 13	505	139	30	103
Journal-bearing	R. Beddall	314,989	Apr. 7	3	2	31	3
Journal-bearing	C. F. Bingham	320,909	June 30	2065	708	31	1566
Journal-bearing	L. Goulliond and C. Pagé	327,675	Oct. 6	240	59	33	42
Journal-bearing	R. W. Hardie	317,345	May 5	568	145	31	627
Journal-bearing	R. W. Hardie	331,497	Dec. 1	341	92	33	1059
Journal-bearing	F. W. Johnstone	312,860	Feb. 24	1911	524	30	726
Journal-bearing	J. G. Marquardt	331,311	Dec. 1	73	18	33	1012
Journal-bearing	P. S. Reeves	314,476	Mar. 24	1949	519	30	1165
Journal-bearing	G. T. Smith	313,545	Mar. 10	693	182	30	915
Journal-bearing	F. W. Thayer and A. S. Howell	314,079	Mar. 17	1411	368	30	1057
Journal-bearing	C. E. Tibbles	328,088	Oct. 13	761	192	33	144
Journal-bearing	A. M. Weatherly	318,334	May 19	1884	506	31	887
Journal-bearing	J. N. Williams	315,103	Apr. 7	158	38	31	29
Journal-bearing and metallic compound therefor	A. M. Randolph	320,445	June 16	2057	540	31	1436
Journal-bearing for car-axles	C. E. Candee	312,430	Feb. 17	1329	368	30	612
Journal-bearing for shafts	P. Murray, Jr	332,819	Dec. 22	2272	599	33	1424
Journal-box	P. Medart	320,151	June 16	1618	431	31	1358
Journal-box	S. and W. Shuffelbarger	321,651	July 7	323	86	32	62
Journal-box	W. W. Worawick	322,032	July 14	856	223	32	164
Journal-box. Anti-friction	T. Tripp	323,468	Aug. 4	109	31	32	542
Journal-box composition	J. H. Hungate	310,827	Jan. 13	852		30	167
Journal-box. Self-lubricating	F. Siebert	314,731	Mar. 31	2253	606	30	1232
Journal-brass	P. P. Emory	330,389	Nov. 17	1305	346	33	770
Journal-lubricator	W. H. and F. C. Burden	327,519	Oct. 6	12	3	33	4
Journal-lubricator	W. Robinson	326,156	Sept. 15	1246	319	32	1259
Jug. Stone	J. B. Brackett	312,180	Feb. 10	989	269	30	539
Jug-stopper	J. B. Brackett	315,114	Apr. 7	170	41	31	31
Jute-machine	J. C. Delavigne	312,100	Feb. 10	865	237	30	517
Kaleidoscope	R. Leach	314,586	Mar. 31	2093	559	30	1217
Keg or barrel	G. H. Gillette	330,012	Nov. 10	800	205	33	661
Keg washer. Beer.	A. Schults	318,308	May 19	1844	495	31	679
Keg-washing machine.	H. Binder	330,550	Nov. 17	1507	403	33	807
Kerite compounds. Manufacturing of crude	A. G. Day	322,804	July 21	1868		32	356
"Kerite." Making the compound termed	A. G. Day	322,802	July 21	1864		32	356
"Kerite." Vulcanized product termed	A. G. Day	322,803	July 21	1866		32	356
Kettle attachment.	W. W. Lanume	312,473	Feb. 17	1401	386	30	624
Kettle-drainer and steam ventilator and conductor	J. A. Clothier	326,629	Sept. 22	1878	492	34	1382
Kettle-holder	E. A. Seely	323,868	Sept. 8	874	220	32	1154
Kettle or boiler. Stewing	H. C. Fish	318,365	May 19	1925	519	31	885
Kettles. Device for hinging and supporting doors of process.	J. Baker	319,169	June 2	285	76	31	1100
Kettles. Device for lifting	L. H. Goff	319,226	June 2	353	94	31	1114
Key:							
See Door-key.	Watch-key.						
Key	E. W. Brettell	312,861	May 26	2601	690	31	1023
Key	J. F. Wollensak	323,479	Aug. 4	122	75	32	544
Key	J. H. Zeilin	312,545	Feb. 17	1497	408	30	642
Key and key-seat	E. Einfeldt	319,078	June 2	180	48	31	1081
Key and scouder	P. P. Belt	318,854	May 26	2582	687	31	1020
Key-board. Transposition	P. Austman	330,283	Nov. 10	1148	305	33	732
Key-fastener	E. McDonald	310,452	Jan. 6	370	102	30	72
Key-fastener	A. W. Sigerson	328,725	Oct. 20	1614	420	33	309
Key-fastener	H. B. Stranahan	330,854	Nov. 17	1896	513	33	822
Key-hole guard	J. Krejci	327,799	Oct. 6	386	100	33	67
Key-hole guard and cigar-cutter. Combined	G. McGovern	318,275	May 19	1797	481	31	871
Key-ring	G. W. Hutchins	331,301	Dec. 1	61	15	33	1010
Key-ring	G. W. Jopson	320,792	June 23	2503	663	31	1329
Key-ring	H. H. V. Lilley	318,482	May 26	2073	560	31	931
Key-ring	G. W. Miller	310,301	Jan. 6	187	52	30	36
Key-ring attachment	A. O. Jones	314,028	Mar. 17	1356	333	30	1046
Key-seat and gear cutting machine	M. Morton	333,324	Dec. 29	2992	784	33	1580
Key-seating machine.	J. T. Burr	319,853	June 16	1349	355	31	1310
Key-seating machine.	D. W. Porter	325,695	Sept. 8	635	161	32	1139
Key. Self-locking	T. Young	321,585	July 7	218	57	32	43
Kiln:							
See Brick-kiln.	Chopping-knife.						
Brick-burning kiln.	Limekiln.						
Charcoal-kiln.	Tile-kiln.						
Kiln for burning bricks, &c. Continuous-action	H. Knowles	318,265	May 19	1782	476	31	869
Kiln for burning bricks, tiles, &c	F. Plumb	316,397	Apr. 21	1949	514	31	365
Kiln for firing decorated china	E. Detwiler	322,373	Oct. 27	2541	655	33	483

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Kilns, pottery or coke ovens, &c. Construction of	H. Knowles	318,264	May 19	1780	476	31	868
King-bolt	W. C. Shipperd	316,192	Apr. 21	1680	440	31	319
King-bolt. Clip	W. C. Shipperd	316,191	Apr. 24	1679	440	31	318
Kitchen-cabinet	E. G. Burgett	331,611	Dec. 1	550	134	33	1094
Kitchen-cabinet	M. H. Card and J. Place	331,766	Dec. 8	783	198	33	1146
Kitchen-cabinet	S. S. Groves	317,766	May 12	1116	294	31	735
Kitchen-cabinet	W. W. Langley	327,801	Oct. 6	388	101	33	68
Kitchen-cabinet	W. D. Newlin	333,245	Dec. 29	2682	753	33	1540
Kitchen-cabinet	T. Nicholas	318,924	May 26	2672	708	31	1037
Kitchen-cabinet	L. P. Slaughter	323,223	July 28	2474	657	32	474
Kitchen-cabinet	J. M. Swaim	323,374	July 28	2695	717	32	512
Kitchen-cabinet	H. Wood	332,222	Dec. 8	1443	373	33	1264
Kitchen-dresser	J. F. Roth	336,348	Sept. 15	1385	380	32	1284
Kitchen utensil	J. P. Hurley	332,201	Dec. 8	1407	363	33	1257
Kneader. Dough	L. Durand	326,023	Sept. 8	1064	271	32	1218
Kneading and elevating doughlike, &c., matter. Apparatus for	A. J. A. Dumoulin	329,376	Oct. 27	2545	656	33	464
Kneading machinery. Dough	H. Werner	329,110	Oct. 27	2156	568	33	413
Knife:							
See Budding-knife.	Oil-cloth knife.						
Butter and cheese knife.	Pocket-knife.						
Corn-knife.	Putty-knife.						
Hay-knife.	Tobacco-harvesting knife.						
Miner's knife.							
Knife	J. Nagel	310,606	Jan. 13	574	158	30	116
Knife and scissors. Combined	M. Kamak	310,439	Jan. 6	356	98	30	69
Knife-blade holder	E. Nicholson	332,548	Dec. 15	1901	497	33	1349
Knife-blades. Manufacture of	C. L. Bellamy	319,442	June 9	638	173	31	1176
Knife-cleaning apparatus	W. Fabian and A. Teller	314,658	Mar. 31	2183	581	30	1235
Knife, compasses, and ruler. Combination	T. W. Wood	328,011	Oct. 20	1843	480	33	351
Knife, craser, letter-opener, &c. Combined	W. W. Yonge	314,507	Mar. 24	1992	531	30	1172
Knife for cutting oil-cloth	A. S. Seaman	318,211	May 19	1712	458	31	856
Knife for cutting seed-potatoes	D. S. Humphrey	332,657	Dec. 15	2056	540	33	1377
Knife grinding machine	E. R. Hyde and E. Valentine	310,661	Jan. 13	892	241	30	174
Knife-handle	C. Ibbotson	313,499	Mar. 10	640	166	30	905
Knife-handle	C. Ibbotson	317,530	May 12	826	212	31	681
Knife-handle. Shoe	P. Koska	324,563	Aug. 18	1508	433	32	830
Knife-handle. Machine for inserting rivets in	T. Harrington	310,051	June 2	194	51	31	1084
Knife-sharpener	W. A. C. Oaks	326,141	Sept. 15	1221	312	32	1264
Knives. Machine for burnishing the blades of table-	F. J. Reinhold	331,545	Dec. 1	409	109	33	1072
Knives. Machine for burnishing the handles of plated	E. A. Severance	327,327	Sept. 29	2241	741	32	1592
Knives. Machine for burnishing the handles of	E. A. Severance	327,326	Sept. 29	2243	742	32	1593
Knit fabrics. Machine for uniting	R. B. Baker and G. H. Straw	317,702	May 12	1036	269	31	720
Knit jacket	J. Frankel	325,525	Sept. 1	420	104	32	1086
Knit shirt	J. Lee	330,500	Nov. 17	1448	387	33	797
Knitted garment	W. Reichman	321,250	June 30	3106	826	31	1646
Knitting-machine	W. Aiken	324,795	Aug. 25	1902	523	32	899
Knitting-machine	W. Aiken	324,796	Aug. 25	1907	525	32	900
Knitting-machine	J. Bradley	320,619	June 23	2296	606	31	1489
Knitting-machine	E. R. Branson	333,102	Dec. 29	2678	703	33	1504
Knitting-machine	J. Byfield	311,172	Jan. 27	1337	368	30	268
Knitting-machine	J. Byfield	311,173	Jan. 27	1343	369	30	268
Knitting-machine	C. Callahan	311,410	Jan. 27	1684	370	30	268
Knitting-machine	A. T. L. Davis	326,854	Sept. 22	2214	459	32	330
Knitting-machine	W. Estv	322,361	July 14	1275	333	32	242
Knitting-machine	W. D. Huse	313,593	Mar. 10	757	200	30	927
Knitting-machine	W. D. Huse	331,400	Dec. 1	204	53	33	1034
Knitting-machine	W. D. Huse	331,401	Dec. 1	205	54	33	1034
Knitting-machine	W. D. Huse	331,402	Dec. 1	207	54	33	1035
Knitting-machine	T. Langham	325,943	Sept. 8	957	243	32	1200
Knitting-machine	S. M. Levy	321,733	July 7	428	114	32	80
Knitting-machine	W. H. Mayo	319,000	June 2	87	23	31	1064
Knitting-machine	C. E. Norris	311,357	Jan. 27	1611	441	30	317
Knitting-machine	G. E. Nye	316,907	Apr. 28	2678	698	31	505
Knitting-machine	G. A. Olson	330,728	Nov. 17	1733	467	33	853
Knitting-machine	J. H. Osborne	316,563	Apr. 28	2177	573	31	414
Knitting-machine	R. Schofield and G. Davidson	322,978	July 28	2138	568	32	412
Knitting-machine	J. H. Sherwood	318,515	May 26	2125	572	31	941
Knitting-machine narrowing-comb	A. J. Wainman	317,598	May 12	901	231	31	604
Knitting-machine needle	J. J. Adgate and S. P. Kittle	332,372	Dec. 15	1652	433	33	1307
Knitting-machine needle	W. D. Huse	320,906	Nov. 10	655	167	33	634
Knitting-machine needle	G. E. Jones	322,454	July 21	1400	360	32	272
Knitting-machine stop-motion	O. H. Edwards	311,238	Jan. 27	1441	393	30	285
Knitting-machine stop-motion attachment	O. H. Edwards	324,097	Aug. 11	931	257	32	704
Knitting-machine stop-motion mechanism	J. Byfield	328,676	Oct. 20	1789	467	33	342
Knitting-machine stop-motion mechanism	W. D. Huse, W. E. Sheehan, and G. F. Davis	327,170	Sept. 29	2646	668	32	1526
Knitting-machine stop-motion mechanism	O. Wilson and J. Palmer	316,423	Apr. 21	1992	523	31	373
Knitting-machine. Weft-thread	J. J. Adgate	332,374	Dec. 15	1654	434	33	1308
Knitting-machines. Cam-cylinder for	J. J. Adgate	332,373	Dec. 15	1653	433	33	1307

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Knitting-machines. Head for fabric take-up devices for	H. L. Hayden	317,773	May 12	1196	297	31	737
Knitting-machines. Needle-presser for	A. H. Brothers	325,815	Sept. 8	814	204	32	1171
Knitting-machines. Transferring device for	W. Aiken	394,797	Aug. 25	1910	525	32	940
Knitting stockings	H. Lennard	315,043	Apr. 7	79	19	31	16
Knob	C. Priestland	319,848	June 9	1194	316	31	1275
Knob and stop. Combined door	J. Leger and E. Keller	329,321	Oct. 27	2454	625	33	469
Knob attachment	W. I. Alvord	330,188	Nov. 10	1030	269	33	709
Knob attachment	W. I. Alvord	330,187	Nov. 10	1031	269	33	709
Knob attachment	W. I. Alvord	330,188	Nov. 10	1032	269	33	709
Knob attachment	W. I. Alvord	330,189	Nov. 10	1033	270	33	709
Knob attachment	H. P. Appleton	331,752	Dec. 8	767	193	33	1143
Knob attachment	C. H. Beebe	318,684	May 26	2350	628	31	986
Knob attachment	C. H. Beebe	331,112	Nov. 24	2237	606	33	953
Knob attachment	J. Bellamy	324,640	Aug. 18	1692	468	32	852
Knob attachment	J. E. Bowman	329,130	Oct. 27	2186	567	33	418
Knob attachment	C. W. Bullard	323,393	Aug. 4	13	4	32	525
Knob attachment	P. Burns	328,184	Oct. 13	821	229	33	167
Knob attachment	W. H. Comstock	328,191	Oct. 13	829	231	33	168
Knob attachment	T. D. Davis	327,366	Sept. 29	2930	764	32	1576
Knob attachment	J. J. Gordon	313,722	Mar. 10	925	240	30	930
Knob attachment	R. M. Keating	325,545	Sept. 1	445	110	32	1101
Knob attachment	S. D. Montress	329,596	Nov. 3	221	58	33	547
Knob attachment	T. J. Morgan	326,048	Sept. 8	1094	279	32	1224
Knob attachment	E. Parker	327,820	Oct. 6	411	107	33	72
Knob attachment	H. E. Russell, Jr.	326,920	Sept. 22	2308	604	32	1459
Knob attachment	W. B. Smith	332,455	Dec. 15	1759	460	33	1325
Knob attachment	H. J. P. Whipple	321,997	July 7	710	185	32	129
Knob attachment	G. Van Winkle	320,602	June 23	2269	600	31	1485
Knob attachment	A. H. Wood	316,591	Apr. 28	2216	583	31	421
Knob attachment. Door	N. Hawkes	311,753	Feb. 3	381	104	30	420
Knob attachment. Door	B. F. Libby	321,827	July 7	581	151	32	107
Knob attachment. Door	J. A. Palne	332,359	Dec. 15	1636	429	33	1304
Knob. Door	J. Bardale	314,644	Mar. 31	2175	577	30	1282
Knob. Door	J. H. Shaw	321,862	July 7	629	102	32	115
Knob. Drawer	R. J. Sutliff	325,712	Sept. 8	671	168	32	1146
Knobs. Securing shanks to glass	J. W. Haines	314,828	Mar. 31	2437	643	30	1291
Knobs to spindles. Attaching	W. Regan	325,445	Sept. 1	311	75	32	1075
Knobs to spindles. Attaching	H. J. P. Whipple	321,928	July 7	712	185	32	129
Knobs to spindles. Attaching door	R. M. Keating	321,818	July 7	563	147	32	104
Knockdown box	H. T. Boulden	326,262	Sept. 15	1400	364	32	1287
Knockdown chair	F. H. Logeman	319,281	June 2	418	112	31	1127
Knockdown table	H. F. Gray	326,112	Sept. 15	1181	302	32	1947
Knockdown table	G. Rohrbach	327,413	Sept. 29	2264	773	32	1568
Label	F. W. Goodwin	316,773	Apr. 28	2483	648	31	469
Label-cabinet	C. A. Peterson	319,312	June 2	462	124	31	1135
Label-holder	W. A. Amberg	316,929	May 5	1	1	31	523
Label-holder	E. A. Cannon	327,763	Oct. 6	338	87	33	59
Labels for tacks, brads, or nails. Series of	W. H. Hart	327,260	Sept. 29	2759	716	32	1547
Labels. Machine for folding and eyeletting	E. A. Pallister	323,067	July 28	2264	598	32	434
Laboratory for dentists and jewelers. Portable	N. W. Caughy	315,725	Apr. 14	1037	272	31	194
Lace and making the same	D. Wullemin	315,589	Apr. 14	859	226	31	159
Lace-fastener	T. H. Knuth	320,260	June 16	1755	466	31	1383
Lace-fastener. Shoe	C. J. Johnson	313,338	Mar. 3	428	108	30	855
Lace. Machine-made	E. Henkels	320,739	Nov. 3	423	109	33	565
Lace-pin and flower-holder. Combined	T. J. Wilson	314,502	Mar. 24	1985	530	30	1171
Lace-pin and other similar fastenings	S. Pinover	314,471	Mar. 24	1942	517	30	1164
Lace-reel	G. E. Fox	316,955	May 5	34	9	31	529
Lace. Shirt	W. T. Gallt	314,661	Mar. 31	2195	583	30	1235
Laces. Display box and package for	J. E. Lee	321,731	July 7	425	113	32	80
Laces. Tool for affixing metal tags to	A. D. Delaviere	311,571	Feb. 3	150	43	30	377
Lacing	C. F. Spencer	321,145	June 30	2977	788	31	1622
Lacing. Corset	S. Bryant	319,190	June 2	310	22	31	1105
Lacing for corsets, gloves, &c.	C. F. Spencer	321,146	June 30	2979	788	31	1622
Lacing-hooks. Press for setting	E. H. Train	323,978	Aug. 11	773	216	32	675
Lactafes. Manufacture of	C. E. Avery	330,815	Nov. 17	1844		33	873
Lactose or milk-sugar. Making	A. H. Sabin	329,858	Nov. 3	586		33	614
Ladder	H. Ayres	311,406	Jan. 27	1679	458	30	329
Ladder	S. Dennis	314,438	Mar. 24	1890	504	30	1155
Ladder	R. Furlong	322,171	July 14	1042	270	32	198
Ladder	W. M. Lyon	329,922	Nov. 10	674	172	33	638
Ladder	J. D. and L. M. Norton	310,218	Jan. 6	73	19	30	16
Ladder	H. H. Schumann	317,024	May 5	124	31	31	545
Ladder	H. H. Schumann	319,330	June 2	482	130	31	1140
Ladder	H. H. Schumann	322,980	July 28	2140	568	32	413
Ladder	J. M. Trimble	313,387	Mar. 3	488	127	30	867
Ladder and fire-escape. Extension	J. P. T. Davis	312,979	Feb. 24	2056	561	30	752
Ladder and fruit-conveyer	G. W. Moore	329,668	Nov. 3	334	83	33	566
Ladder and truck. Fire	L. Harris	311,981	Feb. 10	711	195	30	467
Ladder-bracket	J. D. and L. M. Norton	324,782	Aug. 18	1879	516	32	868
Ladder. Combined extension and step	P. T. Gates	317,9-7	May 19	1424	322	31	802
Ladder. Extensible	T. R. Park	322,632	July 21	1646	435	32	315
Ladder. Extensible step	H. Temple	317,884	May 19	1276	340	31	765
Ladder. Extension	J. A. Balm and A. Demeney	316,516	Apr. 28	2123	568	31	403
Ladder. Extension	W. N. Derby	326,205	Sept. 15	1331	342	32	1273
Ladder. Fire	C. Lazarevitch	316,155	Apr. 21	1637	428	31	310
Ladder. Fire	P. Schmahl	318,660	May 26	2317	619	31	974
Ladder. Fire extension	E. Adcock	319,047	June 2	138	37	31	1073
Ladder. Flexible extension	J. I. Ivester	312,354	Feb. 17	1233	339	30	593
Ladder. Folding	A. Bormann and E. Ekhard	320,114	June 16	1569	414	31	1349

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Ladder. Folding	T. S. Disston	322,699	July 21	1740	459	32	333
Ladder. Folding	J. Ready	320,692	June 23	2387	631	31	1506
Ladder. Folding	D. P. Sharp	331,560	Dec. 1	441	114	33	1076
Ladder for gathering fruit. Portable	H. Huber	310,434	Jan. 6	351	96	30	68
Ladder. Railway step	T. A. Harvey	315,939	Apr. 14	1336	347	31	248
Ladder. Sectional	F. W. Gates	331,876	Dec. 8	933	241	33	1173
Ladder. Sectional	P. T. Gates	316,958	May 5	38	10	31	529
Ladder. Sectional	O. K. Wood	317,913	May 12	1320	354	31	774
Ladder. Step	E. M. Benjamin	327,513	Oct. 6	5	2	33	3
Ladder. Step	C. Brand	311,949	Feb. 10	660	181	30	478
Ladder. Step	C. E. Brownson	322,414	July 21	1353	352	32	263
Ladder. Step	D. A. Foster	314,118	Mar. 17	1473	384	30	1067
Ladder. Step	S. A. Gardner	310,814	Jan. 13	834	296	30	163
Ladder. Step	E. L. Hendrickson	324,254	Aug. 11	1157	315	32	745
Ladder. Step	W. H. Kline	319,728	June 9	1025	271	31	1246
Ladder. Step	W. Pearson	325,441	Sept. 1	305	74	32	1073
Ladder. Step	C. A. Rittmann	329,218	Oct. 27	2310	598	33	442
Ladder. Step	D. Smart	314,267	Mar. 24	1662	442	30	1112
Ladder. Step	H. P. Spencer	313,690	Mar. 10	879	229	30	951
Ladder. Step	L. S. Tibbals	311,272	Jan. 27	1496	408	30	296
Ladder. Tree	J. M. Cuning	323,641	Aug. 4	342	97	32	586
Ladder. Wheel step	A. Conine	321,685	Dec. 1	666	165	33	1115
Ladders. Basket-support for	J. B. Wardwell	325,290	Sept. 1	82	24	32	1031
Ladders, pipes, &c. Mechanism for raising	S. N. Bloom	323,284	July 28	2523	670	32	483
Ladle-stopper	D. D. Lewis	311,902	Feb. 10	596	163	30	466
Ladies. Device for operating foundry	J. H. Whiting	319,158	June 2	275	72	31	1098
Lambrequin-pin	J. Berbecker	323,259	July 28	2519	669	32	482
Lamp	P. Babcock, Jr.	310,635	Jan. 13	607	167	30	122
Lamp	J. Bassemir and G. Humel	328,276	Oct. 13	993	258	33	188
Lamp	W. W. Batchelder	312,317	Feb. 17	1179	323	30	583
Lamp	J. Burnet, Jr.	324,747	Aug. 18	1825	504	32	878
Lamp	G. M. Clute	316,117	Apr. 21	1585	412	31	301
Lamp	T. Evans	313,192	Mar. 3	229	57	30	819
Lamp	A. Geiss	329,897	Nov. 10	645	164	33	632
Lamp	J. Hinks	312,202	Feb. 10	1015	276	30	544
Lamp	T. Hipwell	323,037	July 28	2221	587	32	426
Lamp	J. Kirby, Jr.	314,250	Mar. 24	1635	432	30	1106
Lamp	L. E. Klugh	328,492	Oct. 20	1283	333	33	249
Lamp	J. Lempereur and L. Bernard	323,227	Dec. 29	2869	750	33	1537
Lamp	M. Matthews	311,505	Feb. 3	60	18	30	360
Lamp	M. Matthews	317,160	May 5	313	79	31	550
Lamp	W. S. McLewee	320,081	June 16	1523	403	31	1342
Lamp	C. Pabet	321,522	July 7	161	43	32	32
Lamp	C. Pabet	321,634	July 7	302	81	32	58
Lamp	C. J. A. Pigeon	316,481	Apr. 28	2080	544	31	395
Lamp	F. Rhind	312,762	Feb. 24	1777	490	30	703
Lamp	A. L. Schryver	323,450	Aug. 4	86	25	32	538
Lamp	F. S. Svenson	321,657	July 7	330	87	32	62
Lamp	W. C. Thayer	318,521	May 26	2136	575	31	942
Lamp	J. H. White and T. Hipwell	318,150	May 19	1638	437	31	841
Lamp	E. M. Wright	331,933	Dec. 8	1024	266	33	1191
Lamp and foot-warmer. Carriage	J. F. Gibson	321,713	July 7	405	108	32	76
Lamp and holder. Sealing-wax	F. J. Hoyt and A. M. Nichols	322,589	July 21	1523	402	32	293
Lamp and lamp-shade	G. W. Woodward	320,424	June 16	2030	533	31	1431
Lamp. Arc	A. H. Bowman	324,978	Aug. 25	2151	587	32	945
Lamp. Arc	W. F. Buckley	318,350	May 19	1908	514	31	891
Lamp. Arc	G. M. Hopkins	325,802	Sept. 8	793	199	32	1168
Lamp. Arc	O. P. Loomis	324,778	Aug. 18	1874	515	32	887
Lamp attachment	C. P. Bynon and J. Stewart, Jr.	312,810	Feb. 24	1840	505	30	713
Lamp attachment	F. Goldsmith	324,933	Aug. 25	2088	571	32	934
Lamp attachment for show-globe brackets	A. Lemon	325,845	Sept. 8	845	212	32	1177
Lamp. Automatic feeding and wick-raising	T. A. Fitzsimons	311,972	Feb. 10	697	191	30	485
Lamp-black. Apparatus for manufacturing	P. Neff	314,706	Mar. 31	2245	597	30	1245
Lamp-black. Apparatus for manufacturing	P. Neff	314,707	Mar. 31	2247	598	30	1246
Lamp-black. Apparatus for manufacturing	P. Neff	319,604	June 9	872	230	31	1218
Lamp-black. Apparatus for the manufacture of	P. Neff	319,605	June 9	873	231	31	1218
Lamp-black. Apparatus for the manufacture of	P. Neff	319,606	June 9	874	231	31	1218
Lamp-bracket	F. J. Cross	321,887	July 7	658	171	32	120
Lamp-bracket	J. W. Culmer	328,922	Oct. 27	1870	468	33	363
Lamp-bracket	O. R. Grimmoey	321,020	June 30	2814	748	31	1593
Lamp-bracket	S. W. Macomber	320,941	June 30	2705	718	31	1573
Lamp-bracket	C. L. Pierpont	313,835	Mar. 10	1083	281	30	986
Lamp-bracket	G. J. Stauffacher	317,237	May 5	430	105	31	600
Lamp-bracket	R. L. Stokes	319,146	June 2	261	68	31	1095
Lamp-bracket. Electric incandescent	E. Weston	316,095	Apr. 21	1549	404	31	294
Lamp-burner	L. J. Atwood	324,067	Aug. 11	896	247	32	697
Lamp-burner	L. J. Atwood	324,068	Aug. 11	897	247	32	697
Lamp-burner	L. J. Atwood	324,069	Aug. 11	898	248	32	697
Lamp-burner	L. J. Atwood	327,054	Sept. 29	2484	649	32	1498
Lamp-burner	W. Bertram	322,035	July 14	861	223	32	164
Lamp-burner	R. M. Dill	310,392	Jan. 6	306	84	30	59
Lamp-burner	E. A. Dobbins	331,381	Dec. 1	175	44	33	1029
Lamp-burner	D. L. Durand	313,713	Mar. 10	913	238	30	957
Lamp-burner	D. L. Durand	315,919	Apr. 14	1314	342	31	244
Lamp-burner	E. J. Hale	312,267	Feb. 17	1102	304	30	568
Lamp-burner	H. W. Hayden	322,599	July 21	1606	424	32	308
Lamp-burner	T. Hipwell	314,178	Mar. 17	1548	405	30	1080

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Lamp-burner.....	N. Jenkins	322,183	July 14	1058	274	32	301
Lamp-burner.....	E. Lawrence	319,272	June 2	408	108	31	1125
Lamp-burner.....	R. S. Mains	323,173	July 28	2400	637	32	460
Lamp-burner.....	H. D. Place	322,850	July 21	1941	513	32	369
Lamp-burner.....	E. B. Requa	318,030	May 19	1484	398	31	812
Lamp-burner.....	S. G. Stoddard	321,395	June 30	3290	879	31	1692
Lamp-burner.....	E. F. Trent	314,354	Mar. 24	1783	474	30	1134
Lamp-burner.....	J. F. Trout	330,810	Nov. 17	1838	495	33	872
Lamp-burner.....	C. Turner	311,453	Jan. 27	1739	474	30	340
Lamp-burner.....	J. B. Underwood	330,726	June 23	2426	643	31	1515
Lamp-burner.....	C. G. Webber	310,346	Jan. 6	252	69	30	46
Lamp-burner.....	G. H. Wilson	316,422	Apr. 21	1981	523	31	373
Lamp-burner. Argand	J. A. Cowles	321,281	June 30	3144	838	31	1633
Lamp-burners. Trimming and extinguishing attachment for	F. H. Marker	321,989	July 14	795	908	32	151
Lamp. Car	G. M. Clark and W. H. Briggs	329,535	Nov. 3	154	39	33	534
Lamp. Car	G. M. Clark and W. H. Briggs	329,718	Nov. 3	395	101	33	560
Lamp. Carriage	C. F. Waldron	333,365	Dec. 29	3043	794	32	1586
Lamp. Central-draft	F. Rhind	333,338	Dec. 29	3009	788	32	1563
Lamp-chains. Friction-pulley for	J. S. Oakley	326,140	Sept. 15	1221	312	32	1254
Lamp-chimney	E. B. Requa	318,031	May 19	1486	398	31	812
Lamp chimney and globe	S. M. Howard	317,537	May 12	823	211	31	661
Lamp-chimney cleaner	M. D. Lamb	329,571	Nov. 3	206	54	33	544
Lamp-chimney cleaner	W. H. Reed	330,619	Nov. 17	1590	425	33	824
Lamp-chimney guard	F. Koenig	311,329	Jan. 27	1574	429	30	310
Lamp-chimney holder	J. Quimby, Jr	314,397	Mar. 24	1835	489	30	1145
Lamp-collar	A. L. Dawson	315,744	Apr. 14	1069	280	31	901
Lamp-collar	A. Rincklake	312,385	Feb. 17	1266	281	30	600
Lamp-collars. Machine for attaching metal	A. L. Dawson	315,745	Apr. 14	1070	281	31	901
Lamp-controlling mechanism	E. H. Amet	312,944	Feb. 24	2011	549	30	744
Lamp cut-out. Electric	W. M. Thomas	312,529	Feb. 17	1474	403	30	637
Lamp cut-out. Electric-arc	O. P. Loomis and H. W. Cooley	332,721	Dec. 23	2157	569	33	1492
Lamp. Electric	J. Du Shane	326,487	Sept. 15	1679	438	32	1340
Lamp. Electric	C. F. Heinrichs	317,777	May 12	1130	298	31	739
Lamp. Electric	C. F. Heinrichs	317,778	May 12	1132	299	31	739
Lamp. Electric	M. N. Lynn	315,524	Apr. 14	761	202	31	142
Lamp. Electric	G. C. Pyle	331,327	Dec. 1	94	22	33	1015
Lamp. Electric	E. Thompson	330,018	June 16	1439	378	31	1325
Lamp. Electric	E. Weston	330,450	Nov. 17	1384	369	33	794
Lamp. Electric	L. G. Woolley	319,539	June 9	774	206	31	1200
Lamp. Electric-arc	J. G. Allen	327,375	Sept. 29	2911	760	32	1573
Lamp. Electric-arc	C. M. Ball	314,418	Mar. 24	1862	495	30	1151
Lamp. Electric-arc	A. Bossard	319,781	June 9	1091	289	31	1257
Lamp. Electric-arc	C. F. Brush	312,184	Feb. 10	995	271	30	540
Lamp. Electric-arc	C. L. Buckingham	320,841	June 23	2562	678	31	1541
Lamp. Electric-arc	C. L. Buckingham	320,843	June 23	2567	679	31	1542
Lamp. Electric-arc	W. F. Buckley	315,473	Apr. 14	690	180	31	122
Lamp. Electric-arc	J. E. L. and W. J. K. Clark and R. D. Bowman	324,008	Aug. 11	809	225	32	622
Lamp. Electric-arc	L. Colburn	316,240	Apr. 21	1742	457	31	329
Lamp. Electric-arc	E. B. Cutten	324,305	Aug. 11	1927	335	32	759
Lamp. Electric-arc	P. Diehl	314,567	Mar. 31	2071	554	30	1214
Lamp. Electric-arc	M. G. Farmer	316,785	Apr. 28	2473	645	31	467
Lamp. Electric-arc	W. P. Freeman	313,487	Mar. 10	624	162	30	992
Lamp. Electric-arc	A. L. Fyfe and J. Main	328,022	Oct. 13	670	176	32	122
Lamp. Electric-arc	W. Hochhausen	311,073	Jan. 20	1199	329	30	226
Lamp. Electric-arc	A. G. Holcombe	329,166	Oct. 27	2232	578	33	427
Lamp. Electric-arc	R. F. Jones	326,123	Sept. 15	1194	305	32	1249
Lamp. Electric-arc	W. W. King	316,791	Apr. 28	2509	655	31	474
Lamp. Electric-arc	H. Lamp	329,461	Nov. 3	40	11	33	512
Lamp. Electric-arc	M. N. Lynn	313,006	Feb. 24	2096	571	30	759
Lamp. Electric-arc	C. O. Mailloux	313,436	Mar. 3	553	145	30	880
Lamp. Electric-arc	C. O. Mailloux	313,437	Mar. 3	559	145	30	880
Lamp. Electric-arc	N. McCarty	310,837	Jan. 13	862	233	30	1068
Lamp. Electric-arc	N. McCarty	325,423	Sept. 1	279	69	32	1068
Lamp. Electric-arc	N. McCarty	325,424	Sept. 1	281	69	32	1068
Lamp. Electric-arc	G. Pfannkuche	330,585	June 23	2247	585	31	1480
Lamp. Electric-arc	H. Pieper, fils	319,745	June 9	1044	276	31	1349
Lamp. Electric-arc	G. C. Pyle	329,948	Nov. 10	712	182	33	645
Lamp. Electric-arc	O. Romanze	330,351	Nov. 10	1940	331	33	673
Lamp. Electric-arc	C. E. Scribner	330,052	Nov. 10	850	219	33	673
Lamp. Electric-arc	C. E. Scribner	330,055	Nov. 10	854	221	33	673
Lamp. Electric-arc	S. H. Short	310,736	Jan. 13	738	201	30	146
Lamp. Electric-arc	F. M. Sparrow	315,564	Apr. 14	827	218	31	154
Lamp. Electric-arc	W. M. Thomas	332,971	Dec. 22	2483	657	33	1464
Lamp. Electric-arc	E. Thomson	324,502	Aug. 18	1493	408	32	815
Lamp. Electric-arc	B. B. Ward	311,546	Feb. 3	121	35	30	373
Lamp. Electric-arc	T. L. Willson	332,173	Dec. 8	1376	356	33	121
Lamp. Electric-arc	L. G. Woolley	310,630	Jan. 13	602	166	30	121
Lamp. Electric-arc	A. B. Worth	324,792	Aug. 18	1891	519	32	890

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Lamp. Extension.	G. and J. E. Bohner	311,224	Jan. 27	1423	{ 388 389 }	30	282
Lamp. Extension.	J. A. Evarts	312,194	Feb. 10	1006	274	30	542
Lamp. Extension.	H. F. Jaeger	324,793	Aug. 18	1892	520	32	891
Lamp. Extension.	D. W. Parker and L. F. Griswold	311,520	Feb. 3	86	25	30	306
Lamp-extinguisher.	E. S. and J. H. Bacon	315,217	Apr. 7	340	82	31	61
Lamp-extinguisher.	E. Beach	326,707	Sept. 22	1983	520	32	1403
Lamp-extinguisher.	A. Koegel	314,252	Mar. 24	1640	435	30	1107
Lamp-extinguisher.	H. D. Richardson	317,203	May 5	378	94	31	592
Lamp-extinguisher.	I. and S. Weinstein	312,414	Feb. 17	1307	361	30	607
Lamp-extinguisher. Automatic.	W. S. Burgess	322,579	July 21	1585	418	32	303
Lamp-filling device.	A. Freygang	324,547	Aug. 18	1552	428	32	827
Lamp-fixture.	G. C. Thomas	314,080	Mar. 17	1412	368	30	1057
Lamp-fixture. Electric.	E. Weston	311,398	Jan. 27	1667	455	30	327
Lamp-fixture. Extension.	J. A. Evarts	324,760	Aug. 18	1848	509	32	882
Lamp-fixture. Extension.	R. B. Perkins	311,779	Feb. 3	413	112	30	426
Lamp-fixture. Hanging.	G. W. Hubbell	323,687	Aug. 4	401	115	32	508
Lamp-fixtures. Manufacture of articles of sheet metal for	R. Hoadley	311,321	Jan. 27	1558	425	30	307
Lamp for illuminating, heating, and ventilating rooms.	B. F. Enoch	322,168	July 14	1038	269	32	197
Lamp for light-houses.	M. Arzberger	318,849	May 26	2577	686	31	1019
Lamp for locomotives. Electric.	M. N. Lynn	313,009	Feb. 24	2105	574	30	760
Lamp for marine and land purposes. Inextinguishable.	J. R. Holmes	311,563	Feb. 3	168	47	30	380
Lamp. Forced-draft.	W. S. McLewee	320,080	June 16	1522	403	31	1342
Lamp. Focusing electric-arc.	W. Hochhausen	311,074	Jan. 20	1804	330	30	237
Lamp. Gas.	L. Jullig	327,089	Sept. 29	2539	662	32	1507
Lamp. Gas.	F. Siemens	313,779	Mar. 10	1005	260	30	973
Lamp-globe support. Electric.	A. Bossard	321,788	July 7	616	136	32	96
Lamp-hanger.	L. T. Lawton	318,756	May 26	2445	655	31	997
Lamp-hanger.	D. McMahon	331,521	Dec. 1	376	101	33	1066
Lamp-hanger. Electric.	W. S. Weston	326,363	Sept. 15	1540	399	32	1314
Lamp-hanger. Electric.	W. S. Weston	320,364	Sept. 15	1641	400	32	1314
Lamp. Hanging.	A. H. Jones	311,076	Jan. 20	1207	331	30	237
Lamp. Hanging balanced electric.	T. T. Smith	312,394	Feb. 17	1282	354	30	603
Lamp. Heating.	A. F. Zimmerling	332,370	Dec. 15	1650	432	33	1307
Lamp heating attachment.	E. E. Leach	327,278	Sept. 29	2781	722	32	1551
Lamp holder. Electric.	A. Haid	321,493	July 7	113	39	32	23
Lamp holder. Incandescent.	C. H. Benton	329,618	Nov. 3	266	68	33	555
Lamp holder. Incandescent.	T. W. Bryant	310,373	Jan. 6	283	78	30	54
Lamp holder. Incandescent.	H. Pieper	321,933	July 7	719	187	32	130
Lamp holder. Incandescent.	E. Weston	316,088	Apr. 21	1536	402	31	292
Lamp holder. Incandescent.	E. Weston	320,029	June 16	1452	382	31	1329
Lamp holder. Incandescent.	E. Weston	320,030	June 16	1453	382	31	1329
Lamp holder. Incandescent electric.	A. Bernstein	319,177	June 2	294	78	31	1102
Lamp holder. Incandescent electric.	W. Stanley, Jr.	330,289	Nov. 10	1129	300	33	729
Lamp holder. Incandescent electric.	A. Swan	313,965	Mar. 17	1276	333	30	1031
Lamp holder. Incandescent electric.	J. B. Bartlett	317,917	May 12	1323	355	31	775
Lamp holder. Incandescent electric.	C. G. Perkins	326,584	Sept. 22	1807	475	32	1372
Lamp holder. Incandescent electric.	C. J. Van Depoele	323,983	Aug. 11	780	217	32	677
Lamp holder. Incandescent electric.	E. Weston	316,094	Apr. 21	1548	404	31	294
Lamp holder. Incandescent electric.	J. A. Yuncck and J. Stuerz	320,739	June 23	2439	647	31	1518
Lamp holder. Incandescent electric.	T. A. Edison	317,631	May 12	945	242	31	702
Lamp holder. Incandescent electric.	T. A. Edison	317,632	May 12	946	243	31	703
Lamp holder. Incandescent electric.	T. A. Edison	317,633	May 12	947	243	31	703
Lamp holder. Incandescent electric.	A. Harding	333,219	Dec. 29	2845	744	38	1532
Lamp holder. Incandescent electric.	L. Heinze	319,580	June 9	829	210	31	1210
Lamp holder. Incandescent electric.	C. Heisler	327,795	Oct. 6	377	98	33	66
Lamp holder. Incandescent electric.	C. Heisler	327,796	Oct. 6	380	98, 99	33	67
Lamp holder. Incandescent electric.	C. Heisler	330,586	Nov. 17	1550	415	33	816
Lamp holder. Incandescent electric.	C. A. Huesey	310,516	Jan. 6	447	123	30	87
Lamp holder. Incandescent electric.	O. A. Moses	324,038	Aug. 11	849	237	32	689
Lamp holder. Incandescent electric.	O. A. Moses	325,958	Sept. 8	877	249	32	1204
Lamp holder. Incandescent electric.	C. H. F. Müller	317,171	May 5	329	52	31	583
Lamp holder. Incandescent electric.	J. Nelson	327,578	Oct. 6	99	22, 23	33	19
Lamp holder. Incandescent electric.	E. L. Roussay	319,129	June 2	244	63	31	1092
Lamp holder. Incandescent electric.	P. K. Stern	322,496	July 21	1482	389	32	285
Lamp holder. Incandescent electric.	J. Van Gestel and C. F. Beck	322,024	July 14	847	220	32	102
Lamp holder. Incandescent electric.	B. B. Bunell	313,297	Mar. 3	374	93	30	845
Lamp holder. Incandescent electric.	A. P. Lloyd and F. Y. MacDonald	315,492	Apr. 14	1144	300	31	215
Lamp holder. Incandescent electric.	T. Silver	329,000	Nov. 3	243	63	33	551
Lamp holder. Incandescent electric.	J. Fern	326,858	Sept. 22	2226	581	32	1445
Lamp holder. Incandescent electric.	H. J. Richards	320,287	June 16	1806	480	31	1391
Lamp holder. Incandescent electric.	C. Wolf and H. Friemann	322,514	July 21	1499	394	32	288
Lamp holder. Incandescent electric.	E. Bourdon	322,322	Dec. 15	1580	414	33	1205
Lamp holder. Incandescent electric.	W. Stanley	322,496	July 21	1477	388	32	285
Lamp holder. Incandescent electric.	R. H. Mather	323,516	Aug. 4	175	51	32	554
Lamp holder. Incandescent electric.	W. P. Butler	314,165	Mar. 17	1528	401	30	1077
Lamp holder. Incandescent electric.	M. Matthews	324,715	Aug. 18	1787	493	32	870
Lamp holder. Incandescent electric.	L. G. Huntington	319,094	June 2	202	53	31	1085
Lamp holder. Incandescent electric.	W. P. Butler	323,851	Aug. 4	600	169	32	636
Lamp holder. Incandescent electric.	T. T. Smith	311,617	Feb. 3	211	59	30	389
Lamp holder. Incandescent electric.	J. Kirby, Jr.	314,251	Mar. 24	1639	434	30	1107
Lamp holder. Incandescent electric.	H. R. Bolssier	310,781	Jan. 13	796	215	30	156
Lamp holder. Incandescent electric.	J. Cain	333,194	Dec. 29	2806	735	33	1525
Lamp holder. Incandescent electric.	B. A. Fiske	324,311	Aug. 11	1237	337	32	761
Lamp holder. Incandescent electric.	W. J. H. Ryder	312,584	Feb. 17	1547	421	30	652
Lamp holder. Incandescent electric.	J. L. Williams	321,166	June 30	3004	796	31	1627
Lamp holder. Incandescent electric.	A. Bara and E. Desjardins-Lieux	323,624	Aug. 4	322	92	32	582
Lamp holder. Incandescent electric.	W. H. Belknap	321,942	July 14	736	193	32	142
Lamp holder. Incandescent electric.	F. D. Mercereau	310,953	Jan. 20	1029	279	30	203

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Lamp-shade holder.	T. D. Cashin	312,813	Feb. 24	1843	506	30	714
Lamp-shade suspension device.	D. W. Parker	311,519	Feb. 3	64	24	36	365
Lamp shade and ornament.	W. J. Mingus	325,047	Oct. 13	702	184	33	134
Lamp socket and switch. Electric.	D. H. Cunningham	320,117	June 16	1574	415	31	1350
Lamp socket or holder. Incandescent.	P. H. Brangs	316,903	Apr. 21	1424	370	31	271
Lamp socket or holder. Incandescent.	E. Weston	320,026	June 16	1449	381	31	1328
Lamp socket or holder. Incandescent.	E. Weston	320,027	June 16	1450	381	31	1328
Lamp. Stand.	N. Jenkins	320,476	June 23	2104	555	31	1453
Lamp. Street.	R. Kraussé	310,309	Jan. 6	64	17	30	14
Lamp. Street.	E. Norton	315,057	Apr. 14	1364	353	31	252
Lamp. Street.	H. G. Schuette	310,728	Jan. 13	730	199	30	144
Lamp. Street.	H. G. Schuette	317,215	May 5	393	98	31	585
Lamp. Student.	S. Russell	312,514	Feb. 17	1459	400	30	634
Lamp-support.	J. Spillinger	321,545	July 7	195	51	32	39
Lamp support. Electric.	F. U. Adams	312,789	Feb. 24	1612	498	30	708
Lamp suspension device.	W. H. Babcock	332,495	Dec. 22	2121	559	33	1395
Lamp suspension device.	E. H. Brown	323,294	July 28	2568	684	32	491
Lamp suspension device.	J. A. Everts	325,203	Aug. 25	2444	672	32	999
Lamp suspension device.	C. H. Lyman	318,431	May 19	2011	541	31	909
Lamp suspension device.	T. A. Weber	323,089	July 24	2220	606	33	440
Lamp suspension device.	T. A. Weber	323,090	July 28	2293	606	33	440
Lamp suspension device.	T. A. Weber	323,091	July 28	2296	606	32	441
Lamp. Switch.	O. F. Jordan and L. M. Curry	328,490	Oct. 20	1280	332	33	949
Lamp switch. Incandescent-electric.	C. R. Arnold	328,631	Oct. 20	1735	451	33	332
Lamp. Torch.	C. L. Betts	316,440	Apr. 28	2031	532	31	385
Lamp. Vapor-burning.	A. M. Southard	333,354	Dec. 29	3030	791	33	1566
Lamp. Voltaic-arc.	W. P. Patton	311,142	Jan. 20	1297	357	30	253
Lamp. Voltaic-arc.	G. A. Tabourin	315,571	Apr. 14	837	220	31	155
Lamps and gas-burners. Heater-frame for.	A. M. Rickerby	316,180	Apr. 21	1664	436	31	316
Lamps. Alternating switch for incandescent.	J. A. Cabot	324,079	Aug. 25	2153	588	32	946
Lamps. Apparatus for suspending arc.	J. Young	322,515	July 21	1500	394	32	988
Lamps. Arch for supporting electric.	P. H. Griffin	326,498	Sept. 15	1095	442	32	1343
Lamps. Automatic cut-out for electric.	W. Hochhausen	311,072	Jan. 20	1195	320	30	235
Lamps. Automatic cut-out for incandescent.	W. M. Thomas	316,501	Apr. 28	2106	553	31	400
Lamps. Automatic feeder and regulator for.	B. W. Mitchell	317,835	May 12	1216	322	31	754
Lamps. Automatic switch-board for electric.	C. R. Arnold	328,832	Oct. 20	1736	451	33	332
Lamps. Bulb-case for incandescent electric.	S. H. Sprague	326,459	Sept. 15	1648	431	32	1334
Lamps. Canopy for railway-car.	J. Kirby, Jr.	320,030	Nov. 10	823	211	33	666
Lamps. Carbon electrode for.	G. D. Burton	322,895	July 28	2014	531	32	389
Lamps. Carbon for incandescent.	W. Stanley, Jr., and E. P. Thompson.	323,372	July 28	2293	606	32	512
Lamps. Carbonizing filaments for incandescent electric.	E. P. Thompson	331,663	Dec. 1	630	155	33	1108
Lamps. Clamping device for incandescent electric.	C. G. Perkins	331,092	Nov. 24	2092	566	33	926
Lamps. Clock-work for mechanical.	F. Cook and J. H. Pomeroy	310,651	Jan. 13	627	173	30	125
Lamps. Cut-out for electric-arc.	H. R. Bolsier	310,783	Jan. 13	799	216	30	157
Lamps. Drip-cup for.	E. A. Condit	325,057	Aug. 25	2244	619	32	965
Lamps. Feed-regulator for electric-arc.	S. H. Short	312,243	Feb. 10	1066	293	30	554
Lamps. Filament for incandescent electric.	W. Stanley, Jr.	316,302	Apr. 21	1821	479	31	343
Lamps. Focusing electric-arc.	L. G. Woolley	313,039	Feb. 24	2145	583	30	768
Lamps. Globe for incandescent electric.	W. Stanley, Jr.	333,028	Dec. 22	2578	678	33	1460
Lamps. Holder for incandescent electric.	F. M. Brown	324,530	Aug. 18	1533	423	32	922
Lamps. Lighting.	S. E. Miller	312,285	Feb. 17	1140	312	30	575
Lamps. Manufacture of carbons for incandescent.	J. W. Swan	322,993	July 22	2156	572	32	415
Lamps. Manufacture of filaments for incandescent.	F. Schaefer	320,297	June 16	1818	423	31	1393
Lamps. Manufacture of incandescent.	A. L. Reinmann	323,205	July 28	2453	651	32	470
Lamps. Manufacturing incandescent electric.	W. Holzer	323,150	July 28	2366	697	32	455
Lamps. Manufacturing incandescent electric.	O. A. Moses	324,334	Aug. 11	1269	344	32	767
Lamps or stoves. Oil-burner for.	E. Beach	326,706	Sept. 22	1981	520	32	1402
Lamps. Overflow device for pump.	T. W. Hamilton	326,427	Sept. 15	1611	419	32	1327
Lamps. Safety device for incandescent.	J. A. Cabot	324,980	Aug. 25	2154	588	32	946
Lamps. Socket for incandescent electric.	S. Bergmann	311,100	Jan. 20	1240	340	30	242
Lamps. Socket for incandescent electric.	W. Stanley, Jr.	324,694	Aug. 25	2041	559	32	924
Lamps, &c. Suspension device for.	E. H. Brown	323,293	July 28	2566	683	32	491
Lamps, &c. Suspension device for.	C. H. Lyman	324,332	Aug. 11	1266	344	32	767
Lamps. System for operating incandescent.	H. P. Brown	325,391	Sept. 1	235	59	30	1059
Lamps to hats, caps, &c. Securing miners'.	M. S. Lorsch	324,131	Aug. 11	979	270	32	713
Lance. Bomb.	E. Pierce	320,393	June 16	1989	523	31	1425
Land-roller.	H. A. Currier	313,813	Mar. 10	1052	270	30	961
Land-roller.	E. Horton	314,246	Mar. 24	1629	431	30	1105
Land-roller.	J. A. Johnson	319,725	June 9	1023	271	31	1946
Land-roller.	J. W. Jones	328,489	Oct. 20	1279	332	33	948
Land-roller.	W. H. Knowles	325,749	Sept. 8	723	180	32	1155
Land-roller.	J. J. Lehman	317,552	May 12	842	216	31	684
Land-roller and plow. Combined.	H. Weddle	313,563	Mar. 10	718	188	30	920
Lantern.	J. A. Blankley and C. H. Tallman.	314,787	Mar. 31	2384	630	30	1271
Lantern.	G. A. Carpenter	316,742	Apr. 28	2442	636	31	462
Lantern.	E. F. Cash	312,551	Feb. 17	1502	410	30	643
Lantern.	G. C. Dressel	314,657	Mar. 31	2192	581	30	1225
Lantern.	C. W. Goodwin	319,247	June 9	354	95	31	1114
Lantern.	H. B. Hart	311,128	Jan. 20	1277	352	30	249
Lantern.	E. K. Haynes	322,443	July 21	1399	367	32	871
Lantern.	J. Hirth and J. Ruff	325,210	Aug. 25	2455	675	32	1002
Lantern.	R. L. Hull	313,423	Mar. 3	538	142	30	877
Lantern.	W. H. Karges and C. E. Smith	314,385	Mar. 24	1817	453	30	1141
Lantern.	G. H. Lomax	325,255	Sept. 1	29	484	32	1021

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Lantern.....	M. McRoberts.....	321,993	July 14	801	209	32	154
Lantern.....	F. Meyrose.....	326,136	Sept. 15	1217	311	32	1254
Lantern.....	F. Reichard.....	319,319	June 2	470	127	31	1137
Lantern.....	F. Reinschmidt.....	321,314	June 30	3183	849	31	1661
Lantern.....	C. Riessner.....	316,466	Apr. 28	2086	546	31	396
Lantern.....	J. B. Stetson.....	314,744	Mar. 31	2299	610	30	1255
Lantern.....	R. A. Stevenson.....	314,971	Mar. 24	1669	444	30	1113
Lantern.....	N. P. Towne.....	317,047	May 5	148	38	31	549
Lantern.....	F. Wlach.....	315,875	Apr. 14	1242	324	31	232
Lantern.....	L. B. Wood.....	316,425	Apr. 21	1995	524	31	313
Lantern for electric lamps.....	S. Heiman.....	326,979	Sept. 29	2388	625	32	1481
Lantern. Magic.....	H. and G. Davenport.....	320,636	June 23	2317	612	31	1492
Lantern safety attachment.....	F. O. Dewey.....	319,799	June 9	1126	298	31	1263
Lantern. Signal.....	G. C. Dressel.....	313,303	Mar. 3	388	96	30	847
Lantern. Signal.....	A. H. Handlan, Jr.....	324,995	Aug. 25	2179	596	32	949
Lantern. Signal.....	A. W. Hazelrigg, F. A. Jacob, and H. P. Hood.....	326,293	Sept. 15	1445	377	32	1296
Lantern. Signal.....	A. H. Phillippi.....	310,464	Jan. 6	382	106	30	74
Lantern. Tubular.....	F. Dietz.....	310,188	Jan. 6	30	11	30	10
Lantern. Tubular.....	B. B. Merrill.....	323,710	Aug. 4	425	192	32	603
Lantern. Tubular.....	T. Phillips.....	310,921	Jan. 6	77	90	30	17
Lantern. Tubular.....	J. H. Stone.....	324,183	Aug. 11	1054	288	32	726
Lantern-wick-scraping attachment.....	F. O. Dewey.....	315,256	Apr. 7	384	95	31	70
Lanterns and flags. Holder for signal.....	F. W. Coolbaugh.....	310,652	Jan. 13	697	173	30	125
Lanterns. Manufacturing tube.....	F. Meyrose.....	320,381	June 16	1874	519	31	1422
Lanterns to cars, carriages, &c. Device for attaching.....	M. E. Green.....	319,233	June 2	361	97	31	1116
Lap-board.....	W. L. Lance.....	322,942	July 28	2076	552	32	401
Lap-ring.....	O. D. Read.....	318,292	May 19	1816	486	31	875
Laryngoscope. Electric.....	C. W. Meyer.....	330,139	Nov. 10	973	253	33	698
Last.....	A. W. Cox.....	316,246	Apr. 21	1748	460	31	331
Last.....	E. E. Dutton.....	312,558	Feb. 17	1513	412	30	645
Last.....	L. Graf.....	327,789	Oct. 6	371	96	33	65
Last.....	J. R. Holmes and J. F. Egan.....	323,933	Aug. 11	713	200	32	668
Last.....	C. W. Horney.....	332,151	Dec. 8	1350	349	33	1246
Last.....	W. T. Martin.....	331,313	Dec. 1	70	18	33	1013
Last.....	G. A. Reynolds.....	318,137	May 19	1621	433	31	838
Last.....	H. Stockman.....	329,784	Nov. 3	482	122	33	596
Last.....	H. Stockman.....	329,785	Nov. 3	483	122	33	597
Last. Adjustable.....	D. Dodsworth.....	327,538	Oct. 6	48	11	33	10
Last for beating-out machines.....	E. C. Judd.....	319,096	June 2	204	53	31	1065
Last-patterns of graduated sizes. Making.....	W. Kingston.....	317,948	May 12	1362		31	782
Last. Repairing.....	J. Burke.....	331,765	Dec. 8	782	198	33	1146
Last. Shoe-maker's iron.....	J. Robertson and J. F. Tobin.....	310,723	Jan. 13	721	197	30	143
Lasting-machine.....	M. Brock.....	312,962	Feb. 24	2034	555	30	748
Lasting-machine.....	G. W. Copeland and J. E. Crisp.....	329,282	Oct. 27	2395	621	33	458
Lasting-machine.....	G. W. Copeland and J. E. Crisp.....	329,283	Oct. 27	2397	621	33	459
Lasting-machine.....	P. A. Coupal.....	317,308	May 5	513	131	31	617
Lasting-machine.....	H. W. Dean.....	319,797	June 9	1120	297	31	1262
Lasting-machine.....	E. P. Richardson.....	311,850	Feb. 3	500	137	30	442
Lasting-machine.....	E. P. Richardson.....	311,851	Feb. 3	504	137	30	443
Lasting machine. Heel.....	G. W. Copeland.....	329,279	Oct. 27	2390	618	33	457
Lasting machine. Heel.....	G. W. Copeland.....	329,281	Oct. 27	2393	620	33	458
Lasting-plinchers.....	K. J. Greenwald.....	316,357	Apr. 21	1888	500	31	355
Lasting. Preparing uppers for.....	W. C. Cross.....	316,877	Apr. 28	2638	685	31	496
Latch.....	E. W. Brettell.....	316,871	Apr. 28	2632	683	31	495
Latch.....	K. Clementsen.....	324,763	Oct. 20	1650	430	33	316
Latch.....	G. J. Cline.....	321,270	June 30	3142	837	31	1653
Latch.....	O. H. Gilbert.....	327,157	Sept. 29	2631	684	32	1523
Latch.....	J. W. Helton.....	316,865	Apr. 21	1771	466	31	334
Latch.....	S. Ide.....	313,394	Mar. 10	760	200	30	997
Latch.....	P. L. Maltbie.....	310,900	Jan. 20	946	258	30	100
Latch.....	M. C. Niles.....	323,063	July 28	2257	596	32	433
Latch.....	J. R. Scott.....	315,845	Apr. 14	1800	313	31	294
Latch.....	J. M. Turner.....	315,078	Apr. 14	1392	361	31	258
Latch.....	R. E. Woodrich and C. Langbein.....	326,258	Sept. 15	1396	363	32	1286
Latch and hasp. Combined lock.....	H. C. Stouffer.....	312,226	Feb. 24	1990	543	30	740
Latch and lock combined.....	F. J. Biggs.....	311,637	Feb. 3	836	67	30	394
Latch and lock. Combined.....	G. H. and H. W. Chubb.....	320,626	Sept. 22	1673	491	32	1361
Latch and lock. Combined.....	S. Ehrman.....	328,393	Oct. 13	1160	299	33	219
Latch and lock combined.....	W. Hill.....	320,472	June 23	2100	554	31	1453
Latch and lock combined.....	E. R. Wethered.....	316,098	Apr. 21	1553	405	31	295
Latch. Car-door.....	C. H. White.....	323,371	Sept. 1	195	50	32	1051
Latch-case.....	H. B. Sargent.....	321,856	July 7	623	160	32	114
Latch. Coach.....	A. Ochaner.....	323,719	Aug. 4	439	125	32	605
Latch. Coach.....	W. Schollhorn.....	314,611	Mar. 31	2123	566	30	1223
Latch. Door.....	W. G. Cline.....	333,095	Dec. 22	2531	667	33	1471
Latch. Door.....	T. J. Morgan.....	312,375	Feb. 17	1533	418	30	649
Latch for cars. Automatic side-door.....	J. T. Gordon and J. H. Hamilton.....	329,733	Nov. 3	415	107	33	584
Latch. Gate.....	C. T. Bond.....	329,260	Oct. 27	2368	613	33	453
Latch. Gate.....	S. B. Elzey.....	322,389	July 21	1594	421	32	305
Latch. Gate.....	F. A. Harvey.....	327,079	Oct. 6	244	59	33	43
Latch. Gate.....	W. R. Lampton.....	310,328	Jan. 6	460	120	30	80
Latch. Gate.....	R. Magruder.....	312,135	Feb. 10	907	247	30	525
Latch. Gate.....	W. Mathews.....	330,992	Nov. 24	2080	563	33	924
Latch. Gate.....	A. G. Rockfellow.....	311,787	Feb. 3	424	115	30	428
Latch. Gate.....	W. L. Stovall.....	325,677	Sept. 1	482	120	32	1107
Latch. Knob.....	W. E. Sparks.....	327,833	Oct. 6	428	111	33	75
Latch. Lever.....	J. J. Maas.....	320,465	June 23	2115	557	31	1455
Latch-lock.....	H. P. Young.....	315,905	Apr. 7	319	78	31	58

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Latch. Mortise.	W. E. Sparks.	332,456	Dec. 15	1760	461	33	1328
Latch or check. Door.	M. P. Lemay.	320,790	June 23	2501	662	31	1529
Latch. Reversible.	D. H. Fitzgerald.	311,575	Feb. 3	157	45	30	378
Latch. Reversible.	W. E. Sparks.	312,916	Feb. 24	1977	540	30	738
Latch. Reversible.	W. E. Sparks.	312,917	Feb. 24	1979	540	30	738
Latch. Reversible.	W. E. Sparks.	314,738	Mar. 31	2290	608	30	1223
Latches. Keeper for knob.	H. Morton.	333,022	Dec. 22	2570	678	33	1479
Lath.	J. Morrison, Jr.	311,666	Feb. 3	270	75	30	339
Lath attachment.	E. J. Bracken.	332,481	Dec. 15	1792	471	33	1331
Lath-bundling machine.	T. W. Notter.	320,387	June 16	1980	520	31	1423
Lath fastening. Metal.	A. B. Moore.	313,228	Mar. 3	228	72	30	629
Lath for slates. Fire-proof.	W. H. and L. Lane.	320,072	June 16	1507	399	31	1339
Lath-sawing machine.	J. T. Hall.	321,716	July 7	409	109	39	76
Lathing. Fire-proof.	L. and W. H. Lane.	331,643	Dec. 1	603	149	33	1103
Lathing. Mat-work.	H. Kahle.	331,888	Dec. 8	957	247	33	1177
Lathe.	E. S. Cobb.	314,433	Mar. 24	1835	503	30	1154
Lathe.	J. K. Cullen and J. W. See.	312,615	Feb. 24	1582	433	30	667
Lathe.	R. C. Fay.	329,381	Oct. 27	2552	657	33	485
Lathe.	R. C. Fay.	332,335	Dec. 15	1595	419	33	1298
Lathe.	J. O. Haas.	325,832	Sept. 8	830	207	32	1174
Lathe.	G. E. Medley and M. W. Williams.	318,778	May 26	2477	663	31	1003
Lathe.	L. M. Nutting.	324,409	Aug. 18	1373	374	32	794
Lathe.	S. W. Putnam.	313,447	Mar. 3	573	148	30	853
Lathe.	G. T. Reiss.	324,416	Aug. 18	1383	377	32	796
Lathe.	L. C. Rodler.	317,209	May 5	385	96, 97	31	583
Lathe.	F. A. Wellman.	326,000	Sept. 8	1034	263	32	1213
Lathe and planer tool.	H. B. Steele.	312,034	Feb. 10	780	213	30	501
Lathe attachment.	W. Middleditch.	332,817	Dec. 22	2269	598	33	1224
Lathe. Automatic.	H. Voigt.	329,105	Oct. 27	2147	535	33	411
Lathe bolt-dog.	N. H. Fay and W. Scott.	319,472	June 9	679	183	31	1183
Lathe. Boring.	H. B. Stevens.	327,343	Sept. 29	2872	749	32	1508
Lathe boring-tool.	D. Evans.	332,065	Dec. 8	1216	317	33	1234
Lathe. Car-wheel.	J. J. Brewis.	312,961	Feb. 24	2032	555	30	748
Lathe. Car-wheel.	W. Woodcock.	316,427	Apr. 21	1907	525	31	574
Lathe-center.	G. Rich.	322,322	July 14	1222	321	32	222
Lathe cutting appliance.	L. E. Wheeler.	330,948	Nov. 24	2023	547	33	913
Lathe-dog.	C. S. Beach.	323,900	Aug. 11	674	189	32	657
Lathe-dog.	S. A. Leonard.	330,245	Nov. 10	1098	291	33	723
Lathe-dog.	H. Salomo.	314,482	Mar. 24	1958	521	30	1168
Lathe drifting device.	J. Hall.	320,652	June 23	2336	617	31	1497
Lathe drill-rest.	G. A. Sanders.	316,185	Apr. 21	1670	437	31	317
Lathe. Drilling.	B. H. Hadley.	314,574	Mar. 31	2062	556	30	1216
Lathe. Engine.	V. H. Ernst.	325,662	Sept. 8	591	151	32	1132
Lathe feed mechanism.	J. Flather.	317,449	May 5	713	179	31	652
Lathe for turning cross-head pins.	N. Thomas.	322,212	July 14	1090	283	32	207
Lathe for turning handles.	H. Sheldon.	312,298	Feb. 17	1155	316	30	579
Lathe for turning irregular forms.	W. H. Doane and G. W. Bugbee.	321,423	July 7	11	3	32	5
Lathe for turning irregular forms.	G. H. Ober.	312,288	Feb. 17	1144	313	30	576
Lathe for turning irregular forms.	C. Schoenleber.	316,835	Apr. 28	2568	672	31	486
Lathe for turning polygonal forms.	D. C. and S. E. Smith.	321,763	July 7	480	127	32	89
Lathe for turning spirals.	A., Sr., and A. Gassinger, Jr.	332,510	Dec. 15	1835	481	33	1339
Lathe for turning spirals.	E. D. Mackintosh.	312,736	Feb. 24	1742	479	30	696
Lathe for turning spirals.	S. Moore.	319,022	June 9	1296	342	31	1293
Lathe-gage.	J. A. Rothwell.	314,544	Mar. 24	2037	544	30	1180
Lathe-head.	A. Whitney.	319,650	June 9	924	245	31	1227
Lathe. Many-spindle.	A. and A. Gassinger, Jr.	332,509	Dec. 15	1833	481	33	1339
Lathe. Metal-turning.	F. E. Reed and J. R. Back.	332,833	Dec. 22	2291	604	33	1426
Lathe. Multiplex turning.	E. J. Pennington and A. E. Gatchell.	310,538	Jan. 6	482	135	30	92
Lathe tail-stock.	A. Dodds.	310,260	Jan. 6	130	37	30	87
Lathe-tool.	T. and T. E. Ryan.	312,223	Feb. 10	1043	266	30	548
Lathe-tool.	L. E. Whiton.	316,713	Apr. 28	2400	625	31	455
Lathe tool-feeding mechanism.	E. S. Cobb.	322,904	July 28	2025	535	32	391
Lathe tool-holder.	C. H. Kelley.	332,806	Dec. 22	2258	565	33	1429
Lathe tool-holder.	B. B. Keyes.	332,086	Dec. 8	1250	326	33	1230
Lathe tool-holder.	J. M. Smith.	310,739	Jan. 13	743	202	30	147
Lathe tool-holding attachment.	C. W. Colsworthy.	319,071	June 2	172	46	31	1060
Lathe tool-holding attachment.	C. H. Kelley.	318,261	May 19	1777	475	31	868
Lathe tool-rest.	C. H. White.	315,686	Apr. 14	981	257	31	124
Lathe. Turning.	O. Kromer.	333,016	Dec. 22	2557	673	33	1476
Lathe. Watch-case-graving.	C. Piquerez.	310,910	Jan. 20	959	281	30	199
Lathe. Wood-turning.	W. A. Kettenring.	324,847	Aug. 25	1977	543	32	913
Lathe. Wood-turning.	D. C. and S. E. Smith.	321,763	July 7	482	127	32	90
Lathe. Wood-turning.	M. E. Tucker.	313,839	Mar. 10	1088	263	30	967
Lathe. Wood-turning.	A. D. Waymoth.	319,531	June 9	761	203	31	1197
Lathe. Dead-center device for.	J. Hampson.	316,541	Apr. 28	2151	568	30	408
Lathe. Indicator for feed-screws of engine.	J. C. Osborne.	313,612	Mar. 10	783	206	30	233
Lathe. Machine for feeding blanks to.	J. Welker, Jr.	317,601	May 13	904	232	31	685
Lathe. Polishing mechanism for turning.	J. M. Gilbert.	330,890	Nov. 24	1947	527	33	698
Lathe. Taper and pulley-turning attachment for.	T. H. Worrall.	332,578	Dec. 15	1945	509	33	1357
Lathe. Tool-holding attachment for.	W. Frech.	329,447	Nov. 3	25	7, 8	33	569
Lathing apparatus.	S. Perry.	312,495	May 26	2068	563	31	994

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Lathing. Wire-cloth	W. Orr	320,163	June 16	1630	434	31	1360
Laundry-reel	B. R. Hawley	322,538	July 21	1522	401	32	293
Lawn-rake	H. D. Alexander and D. Harrington	323,252	July 28	2513	667	32	481
Lawn-rake	L. Gibbs	314,373	Mar. 24	1806	480	30	1139
Lawn-rake	L. Gibbs	324,374	Aug. 18	1323	360	32	784
Lawn-tennis-net tightener	C. W. Jefferson	320,138	June 16	1604	424	31	1355
Laying-out and embalming board	N. T. Shaw	327,967	Oct. 6	599	156	33	108
Laying-out and embalming board	N. T. Shaw, W. S. Carlile, and J. W. Dann. }	330,160	Nov. 10	996	{ 259 260 }	33	702
Leaching solutions. Purifying hyposulphite	E. H. Russell	320,590	June 23	2255	...	31	1482
Lead and crayon holder	C. W. Boman	321,784	July 7	510	135	32	95
Lead and crayon holder	C. W. Boman	321,785	July 7	512	135	32	95
Lead and crayon holder	O. A. Moses	325,959	Sept. 8	983	249	32	1204
Lead and iron plate. Combined	J. Makin	312,485	Feb. 17	1410	329	30	628
Lead. Apparatus for feeding white	M. Forst	331,698	Dec. 1	683	169	33	1118
Lead. Apparatus for making sheet	R. Poensgen	323,201	July 28	2447	649	32	469
Lead. Apparatus for the manufacture of white	H. G. Blyth	322,782	July 21	1842	459	32	352
Lead. Apparatus for the manufacture of white	S. D. Cornell	323,499	Aug. 4	153	45	32	550
Lead. Apparatus for the manufacture of white	G. L. Irwin	318,374	May 19	1937	523	31	897
Lead. Apparatus for the manufacture of white	W. V. Wilson	322,235	July 14	1118	201	32	213
Lead. Manufacture of white	W. H. Wetherill	324,200	Aug. 11	1093	...	32	734
Lead pipe. Boxing	A. Euston and J. P. Neville	312,103	Feb. 10	867	227	30	518
Lead-pipe presses. Attachment for	J. Tatham	327,835	Oct. 6	430	119	33	78
Lead-press. Hydraulic	J. Robertson	327,317	Sept. 29	2831	739	32	1560
Lead traps. Machine for making	F. N. Du Bois	321,955	July 14	752	197	32	145
Lead vessels. Constructing	H. Egells	310,500	Jan. 6	429	119	30	83
Leather articles. Manufacture of	R. Porter	319,617	June 9	885	224	31	1220
Leather-blackening machine	J. Hodskinson	322,606	July 21	1615	427	32	309
Leather brushing and treating machine	F. J. Nelson	316,167	Apr. 21	1650	432	31	313
Leather cutting and piling mechanism	J. V. Abbott and C. E. Luce	325,037	Aug. 25	2229	{ 611 612 }	32	960
Leather-cutting machine	D. Knox	312,643	Feb. 24	1619	445	30	674
Leather-cutting machine	D. Knox	317,463	May 5	726	154	31	654
Leather-cutting press	C. F. Stackpole	316,073	Apr. 21	1516	{ 305 306 }	31	287
Leather-cutting press	C. F. Stackpole	316,074	Apr. 21	1518	306	31	288
Leather-dressing machine	F. B. Batchelder	320,906	June 30	2660	707	31	1565
Leather-dressing machine	S. Haley	325,675	Sept. 8	609	{ 154 155 }	32	1135
Leather. Emery and sand-paper machine for dressing	F. H. Meyers	325,431	Sept. 1	290	71	32	1071
Leather-finishing machine	G. A. Hardy	317,770	May 12	1122	{ 285 286 }	31	736
Leather. Glazed kid	T. R. Clark	322,521	July 21	1507	...	32	290
Leather. Machine for putting out and cleaning	J. Hodskinson	311,582	Feb. 3	165	47	30	379
Leather. Manufacture of glazed	T. R. Clark	321,191	June 30	3035	...	31	1633
Leather. Oil compound for	A. Schmitt	329,960	Nov. 10	728	...	33	648
Leather-punching machine	N. W. Calhoun and J. G. Chambers	313,172	Mar. 3	185	45	30	811
Leather. Racing-machine for cutting	A. F. Stowe	328,078	Oct. 13	745	{ 194 195 }	33	141
Leather-rolling machine	E. E. Church	323,196	Dec. 29	2811	736	33	1526
Leather-rolling machine	D. Knox	311,498	Feb. 3	51	15	30	359
Leather-skiving machine	E. F. Belding	320,209	June 16	1689	449	31	1371
Leather-skiving machine	R. Bowden	313,167	Mar. 3	179	44	30	810
Leather-skiving machine	J. H. Buseell	316,006	Apr. 21	1427	371	31	271
Leather-skiving machine	G. E. Stockwell	310,742	Jan. 13	746	{ 202 203 }	30	148
Leather-skiving machinery	J. M. Watson	316,704	Apr. 28	2386	622	31	452
Leather-splitting machine	E. Cummings	332,385	Dec. 15	1671	{ 437 438 }	33	1310
Leather-splitting machine	G. L. Tyler	319,357	June 9	512	140	31	1146
Leather-stock with naphtha to extract oils therefrom. Treating	J. J. Sawin	332,640	Dec. 22	2299	606	33	1430
Leather surfaces. Cleaning and brightening	W. A. Knipe	320,259	June 16	1754	466	31	1383
Leather to a uniform thickness. Machine for reducing	W. W. Hubbard	312,272	Feb. 17	1106	306	30	569
Leather trimming	F. L. A. Ernst	316,024	Apr. 21	1452	378	31	276
Leather washer	T. Gingras	322,923	July 28	2053	542	32	396
Leather washer	T. Gingras	331,293	Dec. 1	53	13	33	1009
Leather-working machine	J. A. Panton	313,231	Mar. 3	293	73	30	830
Leathery compound. Manufacture of	S. P. M. Tasker	322,996	July 28	2159	...	32	416
Ledger and blotter. Combined petit	W. B. Pershing	323,720	Aug. 4	455	129	32	608
Leg. Artificial	H. Haussmann	317,644	May 12	961	248	31	706
Leg. Artificial	J. F. Rowley	314,726	Mar. 31	2277	605	30	1250
Leg. Artificial	A. A. Winkley	316,589	Apr. 28	2214	582	31	420
Leg cord. Artificial	M. Spring	312,396	Feb. 17	1285	359	30	603
Leg fastening and clamping attachment. Removable	G. W. Zeigler	317,270	May 5	463	116	31	608
Leggin	G. C. Henning	314,840	Mar. 31	2450	647	30	1283
Leggin	C. E. Hosmer	320,557	June 23	2208	584	31	1473
Leggin	J. H. Way	332,630	Dec. 15	2010	527	33	1369
Lemon-juice extractor	F. J. Manny	325,099	Aug. 25	2308	635	32	975
Lemon-squeezer	F. J. Herrick	331,236	Nov. 24	2417	655	33	985
Lemon-squeezer	G. J. L. James	318,746	May 26	2433	652	31	995
Lemon-squeezer	F. M. May	321,044	June 30	2842	756	31	1598
Lemon-squeezer	T. McKeethen	330,505	Nov. 17	1454	389	33	798
Lemonade. Apparatus for making and dispensing	S. Van Hennik	327,418	Sept. 29	2970	775	32	1583
Lens	J. W. Cloud	325,656	Sept. 8	584	148	32	1131
Lens for optical instruments	A. Wagner	326,255	Sept. 15	1393	363	32	1286
Lens for telescopes and cameras. Object	J. A. Smith and A. J. Athay	318,666	May 26	2327	622	31	976
Letter-box	J. J. Blair	331,760	Dec. 8	777	196	33	1145
Letter-box	N. A. and J. W. Cadwell	326,948	Sept. 29	2353	615	32	1475
Letter-box	L. Ehrlich	329,293	Oct. 27	2416	{ 626 627 }	33	462

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Letter-box	P. Heintz	331,196	Nov. 94	9356	637	33	975
Letter-box alarm	C. S. Ellis	323,129	July 28	9319	621	33	450
Letter-box. Alarm	H. Roscoe	331,735	Dec. 1	739	186	33	1159
Letter-box. Street	W. H. Taylor	329,688	Nov. 3	354	90	33	572
Letter-boxes. Electrical alarm for	L. Ehrlich	329,294	Oct. 27	9417	627	33	462
Letter-boxes. Electrical indicator for	E. E. Weaver	329,245	Oct. 27	9247	607	33	449
Letter for signs	E. H. Howard	323,803	Dec. 29	9266	776	33	1355
Level	J. W. Atkinson	312,548	Feb. 17	1500	409	30	643
Level	J. Walsh, T. F. Murphy, and E. A. Clark	317,250	May 5	437	109	31	602
Level. Engineer's reversible	C. F. and T. Cooke	330,210	Nov. 10	1057	276	33	714
Level. Pendulum	E. D. Cramer	313,290	Mar. 3	367	91	30	843
Level. Pendulum	S. J. Deckard	328,881	Oct. 20	1800	469	33	343
Level. Pendulum	J. G. Doherty	313,292	Mar. 3	369	91	30	843
Level. Pendulum	A. E. Gardner	318,099	May 19	1570	420	31	822
Level. Pendulum	J. Murray	328,052	Oct. 13	708	186	33	135
Level. Pendulum	W. C. Thayer	317,885	May 12	1277	340	31	766
Level. Plumb	C. Schofield	320,506	June 23	2143	565	31	1461
Level. Rod-plumbing	W. Gurley	312,966	Feb. 17	1100	304	30	568
Level. Spirit	R. Barker	325,479	Sept. 1	354	86	33	1023
Level. Spirit	B. B. Butt	320,537	June 23	2184	576	31	1462
Level, square, and bevel. Combined	M. Eulinton	315,264	Apr. 7	393	98	31	72
Leveler. Road	S. A. Moulton	325,354	Sept. 1	162	44	34	1045
Leveling and supporting implement	L. S. Hoyt	323,715	Dec. 22	2149	567	33	1400
Leveling-instrument	T. J. Barron	331,604	Dec. 1	540	131	33	1092
Leveling-instrument	E. A. Bostrom	314,511	Mar. 24	1996	532	30	1173
Leveling-instrument	A. G. W. Foster	328,665	Oct. 20	1534	399	33	894
Leveling-instrument	C. C. Götz	313,723	Mar. 10	996	240	30	859
Leveling-instrument	J. D. Halthcock and W. T. Suit	333,009	Dec. 22	2550	671	33	1475
Leveling-instrument. Hydrostatic	J. Macdonald	327,564	Oct. 6	82	18	33	15
Leveling-instruments and transits. Attachment for	F. Parson	331,433	Dec. 1	256	69	33	1044
Leveling-rod	H. F. Bean	311,221	Jan. 27	1421	386	30	261
Leveling-rod	R. B. Seymour	310,731	Jan. 13	733	199	30	145
Lever-power	C. Salisbury	315,556	Apr. 14	819	215	31	152
Lever-shears	J. W. Douglas	321,804	July 7	538	142	32	100
Levers. Device for operating a set of	H. D. Ganso	331,629	Dec. 1	588	145	33	1100
Life-boat	A. B. Boyles	311,868	Feb. 10	534	146	30	456
Life-boat	D. P. Dobbins	316,881	Apr. 28	2632	686	31	436
Life-boat	D. P. Dobbins	316,889	Apr. 28	2633	686	31	497
Life-boat	D. Dwyer	320,341	June 16	1898	500	31	1407
Life or other boat	F. L. Norton	323,357	July 28	2669	711	32	508
Life-preserver	P. Kingston	329,230	Oct. 13	936	244	33	173
Life-preserver	C. Leduc	315,950	Apr. 14	1354	351	31	251
Life-preserver	E. and G. A. Waters	315,095	Apr. 7	147	35	31	28
Life-preservers. Machine for making tule bunches for	C. Leduc	317,551	May 12	841	216	31	654
Life-raft	J. Cone and F. S. Groves	312,256	Feb. 17	1087	299	30	568
Life-raft	W. M. Van Wagenen	323,377	July 28	2698	718	32	513
Life-saving apparatus	O. Arnold	322,149	July 14	1016	264	32	183
Life-saving apparatus	C. H. McLellan	315,315	Apr. 7	457	116	31	83
Life-saving mattress	A. A. Young	325,227	Aug. 25	2477	621	32	1006
Lift. Hydraulic	W. H. Johnson	311,327	Jan. 27	1571	428	30	309
Lift. Hydraulic	J. S. Stevens, C. G. Major, and T. W. Barber	312,921	Feb. 24	1923	541	30	739
Lift. Hydraulic	J. S. Stevens, C. G. Major, and T. W. Barber	313,550	Mar. 10	700	183	30	916
Lifter:							
See Fence and post lifter. Stove-lifter.							
Hammer-lifter. Track-lifter.							
Load-lifter. Transom-lifter.							
Stone-lifter. Wagon-bed lifter.							
Lifting apparatus	C. Sanborn	319,132	June 2	246	64	31	1093
Lifting device	E. Paul	311,030	Jan. 20	1133	309	30	224
Lifting-jack	H. Austin	314,908	Mar. 31	2546	673	30	1300
Lifting-jack	J. D. Baillie	310,973	Jan. 20	1060	227	30	299
Lifting-jack	J. Barrett	312,316	Feb. 17	1176	322	30	563
Lifting-jack	J. Barrett. (Reissue)	10,574	Mar. 24	2050	546	30	1122
Lifting-jack	J. Barrett. (Reissue)	10,651	Oct. 13	1234	320	33	224
Lifting-jack	G. S. and J. M. Bowling	320,214	June 16	1699	451	31	1733
Lifting-jack	L. Furman	326,966	Sept. 29	2375	621	32	1479
Lifting-jack	G. W. Giffard and J. L. Roberts	315,611	Apr. 14	896	223	31	165
Lifting-jack	A. W. Hamaker and J. E. Peck	330,582	Nov. 17	1546	414	33	815
Lifting-jack	A. H. Handlan, Jr.	313,935	Mar. 17	1242	323	30	1023
Lifting-jack	J. W. Hawkins	314,937	Mar. 31	2589	685	30	1307
Lifting-jack	A. E. Herman	323,580	Aug. 4	256	75	32	569
Lifting-jack	I. Hogeland	325,411	Sept. 1	264	66	32	1065
Lifting-jack	M. H. Ingalls	319,820	June 9	1159	306	31	1262
Lifting-jack	A. C. Long	321,415	Dec. 1	235	61	33	1039
Lifting-jack	T. Maxon	312,878	Feb. 24	1936	530	30	730
Lifting-jack	T. Maxon	315,807	Apr. 14	1149	301	31	216
Lifting-jack	L. O'Hara	317,951	May 12	1366	367	31	783
Lifting-jack	E. A. Peasley	322,315	July 14	1213	319	32	231
Lifting-jack	T. Phares	314,716	Mar. 31	2263	601	30	1248
Lifting-jack	J. C. Silsbee	326,340	Sept. 15	1508	393	32	1304
Lifting-jack	A. A. Strom	331,919	Dec. 8	997	258	33	1155
Lifting-jack	E. Suckow	331,460	Dec. 1	996	80	33	1051
Lifting-jack	W. C. Willmore	315,871	Apr. 14	1238	323	31	221
Lifting-jack	G. C. Wimpee	313,794	Mar. 10	1032	265	30	977

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Lifting-jack, lever, wrench, and oil-holder combined.	W. K. Mottram	312,747	Feb. 24	1760	485	30	699
Light:							
See Drop-light.	Incandescent light.						
Electric light.	Signal-light.						
Electric-arc light.	Skylight.						
Head-light.							
Light. Apparatus for distributing and diffusing	A. P. Trotter	330,356	Nov. 10	1251	333	33	753
Light apparatus. Revolving	L. F. Lindberg	320,146	June 16	1610	428 427 428 429	31	1357
Light or taper. Ready	J. B. Mitchell	323,058	July 28	2250	505	32	432
Lights. Dissolving-key for oxyhydrogen	H. J. Brower	330,092	Nov. 10	912	237	33	685
Lights. Manufacture of night	S. Clarke	329,536	Nov. 3	135	39	33	535
Lighting device	R. F. Cooke	326,852	Sept. 22	2211	576 577	32	1443
Lighting device	N. B. Stubblefield	329,664	Nov. 3	594	152	33	616
Lighting system. Arc and incandescent	H. P. Brown	325,390	Sept. 1	253	59	32	1059
Lightning. Apparatus for protecting structures from	C. J. Hubbell	329,533	Nov. 3	555	141	33	608
Lightning-arrester	A. J. Holt	330,486	Nov. 17	1430	382	33	794
Lightning-arrester	E. Thomson	321,464	July 7	77	21	32	16
Lightning-arrester and test-connection. Combined.	H. B. Lytle and J. A. McCoy	318,571	May 26	2210	591	31	953
Lightning-arrester for line-wires	G. W. Mingle	323,222	Aug. 4	564	160	32	629
Lightning-arrester for wire fences	W. A. Morton	319,300	June 2	442	118	31	1131
Lightning-arresters. Testing apparatus for	C. E. Scribner	330,054	Nov. 10	853	220	33	673
Lightning-conductor	J. R. Fricke	311,115	Jan. 20	1258	345	30	246
Lightning-conductor	F. R. Upton	315,679	Apr. 14	973	254	31	182
Lightning-protector	H. A. Pitcher	317,548	May 12	1229	325	31	757
Lightning-protector for electrical circuits.	W. F. M. McCarty	321,235	June 30	3088	820	31	1643
Lightning-rod connections. Machine for making.	S. Bradley	321,105	July 28	2313	611	32	444
Lightning-rod coupling	A. J. Munson	332,773	Dec. 15	2080	546	33	1381
Lightning-rod holder	S. R. Lawshe	314,385	Mar. 24	1822	485	30	1142
Lightning-rod standard	J. W. Cole and H. Knudsen	332,783	Dec. 15	1669	437	33	1310
Limb. Artificial	G. Beacock and T. Sparham	329,879	Nov. 10	625	158	33	628
Limb. Artificial	G. Beacock and T. Sparham	329,880	Nov. 10	626	159	33	628
Limb. Artificial	W. Lockwood	314,458	Mar. 24	1912	510	30	1159
Limb. Artificial	W. Lockwood	315,519	Apr. 14	753	199	31	140
Lime-distributor	J. Hotham	323,683	Aug. 4	396	113 114	32	597
Lime. Manufacture of	H. Mathey	330,603	Nov. 17	1570		33	820
Limekiln	J. Hunt	330,121	Nov. 10	949	246 247	33	692
Limekiln	A. B. Weeks	310,759	Jan. 13	768	208	30	151
Liming-vat	T. Johnstonbaugh	321,300	June 30	3168	844	31	1658
Line-chalker and plumb-bob	J. L. Downie and J. E. Hardin	316,530	Apr. 28	2138	562	31	406
Line-fastener. Automatic	S. and F. Seib	314,065	Mar. 17	1316	364	30	1054
Line-reel brake	C. H. Briggs	329,711	Nov. 3	385	98	33	578
Line-ring for hames	G. J. Letchworth	314,634	Mar. 17	1361	355	30	1047
Line-stretcher	C. Grosinski and G. B. Beecher	333,067	Dec. 22	2621	667	33	1467
Liniment	W. S. Brawner	320,041	June 16	1466		31	1331
Liniment	G. W. Christopher	324,919	Aug. 25	2070		32	930
Liniment	C. P. Keen	327,883	Oct. 6	462		33	85
Linings. Folding	J. Irving	330,707	Nov. 17	1703	460	33	847
Link-bending machine	W. R. Lewis	321,734	July 7	429	114	32	80
Link-bending machine	J. H. Simpson, W. G. Gladhill, and C. Gailliot	318,517	May 26	2129	573 574	31	941
Link-fitting apparatus	J. H. Simpson	318,917	May 19	1723	461	31	857
Link for clothes or harness	A. C. Faivre	312,105	Feb. 10	869	238	30	518
Link-machine	J. F. Bussey	329,010	Oct. 27	2011	523	33	388
Link-machine	T. A. Griffin and C. Alkins	326,973	Sept. 29	2383	623	32	1480
Link-making machine	J. I. Cheesman	332,993	Dec. 22	2526	666 667	33	1470
Link. Open	T. Barnes	324,637	Aug. 18	1690	465	32	852
Link or pitman	S. Arnold	311,558	Feb. 3	138	39	30	374
Link. Split	W. H. Clay	329,142	Oct. 27	2201	570	33	421
Link. Spring	W. R. Belding	315,223	Apr. 7	347	84	31	62
Links. Manufacture of	P. F. Greenwood	310,415	Jan. 6	331	91	30	64
Linophanies or translucent pictures. Manufacture of	E. O. Grünert	314,931	Mar. 31	2578		30	1305
Lint-making machine	J. Webster	321,409	June 30	3312	884	31	1685
Liquid cooler	A. Kurtz	325,418	Sept. 1	272	67	32	1067
Liquid-drawing apparatus	H. M. Powers	329,945	Nov. 10	708	181	33	644
Liquid-elevator	A. H. Phillip	315,337	Apr. 7	483	122	31	88
Liquid-gage and alarm. Electric	J. C. Boyle	317,289	May 5	492	124	31	613
Liquid-meter	H. F. Gaskill	313,860	Mar. 17	1123	291 292	30	1002
Liquid-meter	R. W. Graves	319,811	June 9	1146	303	31	1267
Liquid-meter	E. Kronenberg and C. Wolters	327,956	Oct. 6	583	152	33	105
Liquid-meter	P. Samain	325,975	Sept. 8	999	255	32	1207
Liquid substances with purifying or other liquids. Method of and apparatus for treating semi-	E. Langen	323,694	Aug. 4	408	117	32	599
Liquids. Apparatus for emptying barrels or other receptacles containing	B. F. Hudson	313,077	Mar. 3	50	13, 14	30	787
Liquor-flask	H. W. T. Jenner	330,709	Nov. 17	1705	460	33	848
Liquors. Apparatus for filling vessels with fermented	C. Müssel	333,081	Dec. 22	2646	693 694	33	1491
Liquors. Filling vessels with fermented	C. Müssel	331,252	Nov. 24	2443	660	33	989
Lithographic presses. Dampening apparatus for	G. P. Fenner	318,364	May 19	1924	519	31	894
Lithographic presses. Dampening-roller for	J. Brengel	327,995	Oct. 13	634	168	33	122
Lithographic stone. Artificial	W. Von Pittler	326,254	Sept. 15	1393	362	32	1286
Lithographic stones. Apparatus for setting	J. T. Hawkins and R. Preston	323,932	Aug. 11	711	199	32	665
Lithographic stones. Machine for making artificial	J. Wezel	332,852	Dec. 22	2320	614	33	1432
Live-box. Wire floating	J. F. Hardman	316,775	Apr. 28	2466	649	31	470

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &	Vol.	Page.
Load-binder.....	L. B. Melins.....	331,421	Dec. 1	243	64	33	1041
Load-lifter.....	W. Lucas.....	313,067	Mar. 3	61	17	30	780
Loads down mountains. Device for transferring.....	A. Roncaglia.....	330,805	Nov. 17	1831	494	33	871
Loading and unloading platform for street use.....	J. H. L. Tuck.....	330,754	Nov. 17	1769	477	33	850
Lock:							
See Alarm-lock. Milk-can lock.							
Bag-lock. Mortise-lock.							
Bolt-lock. Nut-lock.							
Cabinet-lock. Oak-lock.							
Car-lock. Ordnance-lock.							
Combination-lock. Padlock.							
Door-lock. Permutation-lock.							
Double-acting lock. Revolver-lock.							
Electric lock. Rope-lock.							
Fence-lock. Safe-lock.							
Fire-arm lock. Sash-lock.							
Fire-arm safety-lock. Seal-lock.							
Hasp-lock. Snap-lock.							
Hatchway-lock. Trap-lock.							
Hinge-lock. Time-lock.							
Indicator-lock. Trunk-lock.							
Latch-lock. Umbrella-lock.							
Mail-bag lock. Valve-lock.							
Mail-pouch lock. Wagon-seat lock.							
Lock.....	J. R. Ames.....	337,053	Sept. 29	2483	649	32	1498
Lock.....	J. H. Barnes and J. H. Woolaston..	314,778	Mar. 31	2373	628	30	1289
Lock.....	A. L. Becht.....	317,076	May 5	192	49	31	158
Lock.....	E. W. Brettell.....	319,058	June 2	159	41	31	1075
Lock.....	E. J. Colby.....	312,819	Feb. 24	1851	508	30	716
Lock.....	G. R. Cowles.....	324,818	Aug. 25	1938	533	32	906
Lock.....	T. Donahue, J. Roche, W. T. Goodwin, and W. W. Cone.	312,837	Feb. 24	1868	512	30	718
Lock.....	J. W. H. Doubler.....	316,132	Apr. 21	1608	420	31	305
Lock.....	E. G. Gory.....	324,313	Aug. 11	1241	337	32	762
Lock.....	N. A. Hull.....	311,898	Feb. 10	569	161	30	465
Lock.....	A. Kelly.....	326,507	Sept. 15	1705	445	32	1344
Lock.....	A. Kirks.....	329,456	Nov. 3	34	10	33	511
Lock.....	T. Kirwan.....	317,547	May 12	838	215	31	863
Lock.....	A. Kohlhof.....	311,992	Feb. 10	724	198	30	490
Lock.....	C. A. Ludlow.....	323,049	July 28	2239	592	32	430
Lock.....	W. I. Ludlow.....	315,307	Apr. 7	447	113	31	81
Lock.....	W. J. Mandeville.....	331,073	Nov. 24	2170	569	33	942
Lock.....	T. W. Markham.....	321,306	June 30	3172	846	31	1639
Lock.....	P. Mathes.....	317,398	May 5	632	162	31	638
Lock.....	W. M. Morton.....	331,153	Nov. 24	2223	621	33	963
Lock.....	B. Moser.....	313,088	Mar. 3	77	21	30	791
Lock.....	B. Moser.....	313,439	Mar. 3	563	145 } 146	30	881
Lock.....	W. G. Mumma.....	331,985	Dec. 8	1108	288	33	1205
Lock.....	A. Pacorkowski.....	326,673	Sept. 22	1932	508	32	1283
Lock.....	C. W. Parsons.....	318,388	May 19	1955	527	31	900
Lock.....	A. W. Paull and D. L. Heiskell.....	327,715	Oct. 6	985	72	33	50
Lock.....	J. C. Taylor.....	332,966	Dec. 22	2478	656	33	1463
Lock.....	W. H. Taylor.....	332,459	Dec. 15	1763	461	33	1396
Lock.....	C. F. Veit.....	325,028	Aug. 25	2216	608	32	857
Lock.....	C. F. Veit.....	332,976	Dec. 22	2491	659	33	1465
Lock.....	C. E. Whittlesey.....	330,521	June 23	2163	571	31	1464
Lock.....	J. E. Young.....	325,305	Sept. 1	101	99	32	1034
Lock and latch combined.....	J. A. E. Anderson.....	331,671	Dec. 1	641	158	33	1110
Lock and latch combined.....	G. E. Bower.....	333,440	Dec. 29	3137	820	33	1524
Lock and latch combined.....	J. Wurm.....	315,456	Apr. 7	654	169	31	116
Lock and latch. Combined.....	L. Van Alstyne.....	327,624	Oct. 6	166	41	33	30
Lock bolt. Door.....	A. Schweinfurt.....	329,494	Nov. 3	95	25	33	523
Lock-bolt for doors.....	J. B. Schroder.....	313,888	Mar. 17	1164	303	30	1010
Lock-case.....	H. B. Plumb.....	331,083	Nov. 24	2192	533	33	946
Lock-case.....	H. L. Spiegel.....	316,411	Apr. 21	1976	519	31	369
Lock-dial.....	F. A. Hatch.....	317,772	May 12	1125	397	31	737
Lock face-plate.....	G. Voll.....	333,434	Dec. 29	3130	618	33	1522
Lock for the frames of satchels, &c.....	F. C. Schmidt.....	325,017	Aug. 25	2204	604	32	854
Lock hasp and hook. Combined.....	F. N. Mihills.....	319,599	June 9	863	228	31	1216
Lock. Latch.....	S. W. Budd.....	322,875	Oct. 20	1788	467	33	341
Lock-plates. Machine for punching.....	T. Donahue and W. W. Cone.....	315,749	Apr. 14	1079	283	31	292
Locks. Knob locking and releasing mechanism for.....	G. E. Thaxter.....	315,186	Apr. 7	284	69, 70	31	52
Locks. Locking and unlocking mechanism for electric.....	C. H. Crockett and C. C. Allen.....	323,918	Aug. 11	692	194	32	660
Locking and unlocking the doors of safes, &c.....	G. L. Damon.....	311,419	Jan. 27	1697	462	30	338
Locking bars. Device for.....	T. Shehan.....	330,266	Nov. 10	1125	299	33	727
Locking bracket for curtain and other rods and rails.....	C. J. Beckman.....	328,562	Oct. 20	1382	360	33	432
Locking device for sliding doors.....	D. Hoke.....	311,760	Feb. 3	390	106	30	432
Locking device for jails.....	C. S. and U. Snead.....	323,748	Aug. 4	475	134 } 135	32	613
Locking mechanism for doors.....	D. W. Tower.....	314,401	Mar. 24	1842	490	30	1146
Locket.....	C. H. Cooke.....	316,118	Apr. 21	1586	412	31	301
Locket and coin and letter scale. Combined.....	E. Fuchs.....	324,463	Aug. 18	1443	395	32	806
Locomotion. Electric.....	J. M. Pendleton.....	323,199	July 28	2443	648	32	469
Locomotive.....	G. H. Griggs.....	328,845	Oct. 20	1754	457	33	335
Locomotive.....	F. W. Johnstone.....	331,973	Dec. 8	1074	279 } 280 } 281	33	1300
Locomotive.....	H. A. Luttgens.....	330,340	Nov. 10	1218	526	33	747
Locomotive.....	F. Newhouse.....	311,601	Feb. 3	193	501	30	385
Locomotive.....	E. L. Stream.....	314,747	Mar. 31	2302	611	30	1256
Locomotive-alarm. Electric.....	W. Vogel.....	330,074	Nov. 10	860	230	33	669

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr:g.	Vol.	Page.
Locomotive ash-pan	E. Beals	328,751	Oct. 20	1640	427	33	314
Locomotive ash-pan	J. Graham	326,731	Sept. 22	2046	532	32	1412
Locomotive ash-pan	C. M. Lake. (Reissue)	10,558	Feb. 3	526	142	30	448
Locomotive ash-pan	W. W. Slocum, Jr.	320,183	June 16	1658	440	31	1365
Locomotive boiler	C. B. Coventry	316,947	May 5	21	6	31	527
Locomotive boiler	M. W. Hazelton	311,318	Jan. 27	1554	424	30	306
Locomotive-brake	G. H. Poor	315,163	Apr. 7	245	60	31	45
Locomotive-brake	G. H. Poor	317,571	May 12	866	222	31	688
Locomotive-brake	G. S. Strong	315,973	Apr. 14	1387	350	31	257
Locomotive-brake	J. H. Williams	314,209	Mar. 17	1581	419	30	1067
Locomotive cow-catcher	J. Fleck	320,864	June 23	2593	687	31	1547
Locomotive draw-bar	T. C. Craven	311,963	Feb. 10	682	186	30	482
Locomotive driving-box	W. J. Healy	317,774	May 12	1127	297	31	737
Locomotive, Electric	J. Weiss	320,025	June 16	1448	381	31	1328
Locomotive-engine	J. A. Longridge	323,045	July 28	2231	590	32	428
Locomotive-engine	W. C. Shearer	318,313	May 19	1856	498	31	881
Locomotive-engine bearing	J. Willis	333,269	Dec. 29	2919	763	33	1547
Locomotive-engine. Compressed air and gas	D. S. Troy	317,891	May 12	1283	342	31	767
Locomotive-engine. Electric	L. Daft	325,915	Sept. 8	924	233	32	1193
Locomotive-engine saddle	J. D. Campbell	328,002	Oct. 13	643	170	33	133
Locomotive exhaust mechanism	S. H. Dunning	318,708	May 26	2379	635	31	985
Locomotive exhaust-nozzle	J. Wotapek	310,768	Jan. 13	782	211	30	154
Locomotive exhaust-nozzle	J. Wotapek	310,760	Jan. 13	784	211	30	154
Locomotive fire-boxes. Arch for	G. W. Cushing	333,202	Dec. 29	2922	738	33	1528
Locomotive-furnace	J. Barkett	330,819	Nov. 17	1849	498	33	873
Locomotive-furnace	H. Monk	328,048	Oct. 13	703	185	33	134
Locomotive friction device	N. S. Shaler	313,950	Mar. 17	1270	331	30	1029
Locomotive journal-box	G. H. Kinzer	332,157	Dec. 8	1358	359	33	1248
Locomotive-journal lubricator	E. Graham	311,744	Feb. 3	368	101	30	418
Locomotive-pilot	F. B. Hoel	320,657	June 23	2343	619	31	1498
Locomotive. Road	G. G. Buckland	321,005	June 30	2793	742	31	1589
Locomotive sand-feeder	H. R. Campfield	322,156	July 14	1023	266	32	195
Locomotive smoke-box	G. B. Henderson	328,674	Oct. 20	1545	402	33	295
Locomotive-spring clip	W. Evans	325,201	Aug. 25	2443	671	32	999
Locomotive-spring clip	W. Evans	325,202	Aug. 25	2443	672	32	999
Locomotive steam-dome	C. B. Hodges and E. McCoy	320,354	June 16	1925	507	31	1412
Locomotive steam-engine	W. J. Hammond	328,215	Oct. 13	917	238	33	174
Locomotive traction-increaser	G. P. Merrill	316,320	Apr. 21	1925	508	31	361
Locomotive traction-increaser	J. J. Steiger	332,298	Dec. 15	1545	404	33	1288
Locomotives and cars. Device for arresting	M. F. Bonzano	315,705	Apr. 14	1005	264	31	186
Locomotives and cars. Device for arresting	M. F. Bonzano	330,671	Nov. 17	1657	446	33	839
Locomotives. Apparatus for supplying natural gas to	J. H. Katz	331,716	Dec. 1	707	175	33	1123
Locomotives. Coaling	H. McLaughlin	323,586	Aug. 4	264	77	32	571
Locomotives. Mechanism for automatically operating throttle and brake valves of	T. Potter	316,171	Apr. 21	1653	433	31	313
Locomotives. Traction-increaser for	M. A. Dees	323,283	July 28	2551	679	32	488
Log-binder	H. Pangborn	323,445	Aug. 4	81	24	32	537
Log-boat	W. A. Dexter	329,145	Oct. 27	2204	571	33	422
Log-boom	J. R. Allen	311,965	Feb. 10	530	145	30	455
Log-boom	J. Green	330,016	Nov. 10	805	206	33	682
Log-crib	C. C. Barker and T. Craney	313,294	Mar. 3	370	92	30	844
Log-loader	J. Campbell	320,217	June 16	1701	452	31	1373
Log-loader	D. J. Saltzman	313,536	Mar. 10	684	179	30	913
Log-loader. Floating	C. C. Barker and T. Craney	313,293	Mar. 3	370	92	30	844
Log-mover and dog	W. E. Hill	325,745	Sept. 8	718	179	32	1154
Log-turner	D. W. Dorrance	321,803	July 7	537	142	32	100
Log-turner	J. Evered	326,280	Sept. 15	1422	370	32	1291
Log-turner	W. E. Hill	315,032	Apr. 7	61	15	31	13
Log-turner	G. W. Robinson	315,073	Apr. 7	120	28	31	23
Log-turner	D. J. Saltzman	320,591	June 23	2256	597	31	1482
Log-unloader	W. E. Hill	324,440	Aug. 25	1966	539	32	911
Logs. Apparatus for collecting scattered	A. McDougall	312,486	Feb. 17	1411	389	30	626
Logs on wagons. Device for loading	J. T. Bond	320,704	Nov. 3	377	96	33	577
Logwood extract. Preparing	C. E. Avery	320,526	June 23	2169	.....	31	1465
Looking-glass	E. M. Carpenter	324,227	Aug. 11	1125	306	32	739
Loom	G. W. French and J. A. Mattern	319,473	June 9	684	184	31	1184
Loom	A. Urbahn	326,071	Sept. 8	1134	288	32	1231
Loom cloth-guide	C. J. Sullivan	313,633	Mar. 10	807	211	30	936
Loom float-detecting mechanism	A. Mallory	331,697	Dec. 8	966	250	33	1179
Loom for weaving chenille or fur pile fabrics	W. Adam	324,287	Aug. 11	1201	326	32	754
Loom for weaving double pile fabrics	C. Coupland	311,961	Feb. 10	679	183	30	482
Loom for weaving double pile fabrics	C. Coupland	312,190	Feb. 10	1001	273	30	541
Loom for weaving double pile fabrics	R. Mair and W. H. Royal	324,394	Aug. 18	1349	367	32	790
Loom for weaving looped or terry fabrics	J. Nugent	321,631	July 7	299	80	32	57
Loom for weaving tufted fabrics	A. L. Skinner	330,069	Nov. 10	877	222	33	679
Loom-harness	W. J. Hulford and T. P. Walsh	323,421	Aug. 4	49	13	32	532
Loom-harness. Machine for opening the eyes of	J. Sladdin	324,420	Aug. 18	1390	378	32	797
Loom-heddle supporting and operating mechanism	J. Roberts	318,658	May 26	2315	618	31	973

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Loom let-off mechanism	J. A. Bergan	331,274	Dec. 1	8	2	33	1002
Loom let-off mechanism	J. D. Cottrell	312,708	Feb. 24	1705	469	30	689
Loom let-off mechanism	W. B. Gambrell and P. Russel	332,887	Dec. 22	2374	628	33	1442
Loom let-off mechanism	E. A. Ladue	328,041	Oct. 13	694	183	33	133
Loom let-off mechanism	J. and J. Nightingale	332,822	Dec. 22	2275	600	33	1425
Loom. Needle	A. L. Skinner	330,070	Nov. 10	883	228	33	679
Loom pattern-chain	H. Wyman	320,449	June 16	2064	542	31	1438
Loom-picker	W. R. Thrash	322,140	July 14	1008	262	32	192
Loom picker-staff check	T. A. Anderson	330,191	Nov. 10	1036	270	33	710
Loom picker-staff check	J. C. Potter	333,332	Dec. 29	3001	766	33	1561
Loom picker-stick	L. Taft	329,971	Nov. 10	744	189	33	651
Loom picking-shoe	J. L. Inman and E. H. Stevens	331,886	Dec. 8	954	247	33	1177
Loom pile-wire	E. Crossley and R. Cochrane	330,821	Nov. 17	1851	499	33	574
Loom positive shuttle-motion	C. B. Rumsey	323,738	Aug. 4	464	131	32	610
Loom positive shuttle-motion	C. S. Strowbridge	332,217	Dec. 8	1435	370	33	1282
Loom positive shuttle-motion	F. K. Wright, C. W. Gage, and W. F. Hitchcock	320,902	June 23	2650	703	31	1556
Loom-reed	E. Adamson	315,890	Apr. 14	860	226	31	159
Loom-shuttle	A. T. Atherton	314,907	Mar. 31	2545	673	30	1300
Loom-shuttle	J. Baldwin	323,554	Aug. 4	928	67	32	564
Loom-shuttle	H. Bardsley	325,721	Sept. 8	683	171	32	1147
Loom-shuttle	A. Boissonneault	322,892	July 28	2010	530	32	388
Loom-shuttle	C. Falvey	320,919	June 30	2677	711	31	1565
Loom-shuttle	A. E. P. Martyn	333,317	Dec. 29	2984	781	33	1532
Loom-shuttle	C. N. Newcomb	330,144	Nov. 10	978	254	33	699
Loom-shuttle	J. H. Nolan	323,438	Aug. 4	69	18	32	536
Loom-shuttle	J. C. Sergeson	312,520	Feb. 17	1465	401	30	635
Loom-shuttle	J. P. Thompson	319,866	June 9	1218	321	31	1279
Loom-shuttle	I. L. Wilber	315,100	Apr. 7	154	37	31	29
Loom shuttle-box motion	L. C. Werner	315,683	Apr. 14	978	256	31	184
Loom shuttle-box-operating mechanism	J. H. Crowley	313,578	Mar. 10	735	194	30	923
Loom shuttle-box-operating device	L. J. Knowles	329,396	Oct. 27	2578	665	33	490
Loom-shuttle-driving mechanism	F. Kesselring	332,400	Dec. 15	1689	443	33	1313
Loom-shuttle guard	N. Drake and S. Feather	331,117	Nov. 24	2944	610	33	855
Loom shuttle-motion	T. A. Weber	312,680	Feb. 24	1665	459	30	683
Loom-shuttle-operating mechanism	E. S. Winchester	310,970	Jan. 30	1055	286	30	208
Loom-shuttle spindle	W. T. Coggeshall	323,115	July 28	2326	616	32	447
Loom-shuttle thread-guide and tension-regulator	G. Baldwin	330,544	Nov. 17	1501	401	33	886
Loom-shuttles. Machine for winding bobbins for	J. H. Crowley	320,851	June 23	2579	682	31	1544
Loom take-up and let-off mechanism	T. H. Blamires	318,857	May 26	2585	688	31	1020
Loom take-up mechanism	J. C. and J. F. Brooks, F. W. Ball, and H. Brooks	332,782	Dec. 22	2223	588	33	1417
Loom take-up mechanism	F. Kesselring	312,128	Feb. 10	900	245	30	583
Loom take-up mechanism	H. Talks	329,972	Nov. 10	744	190	33	651
Loom-temple for tubular fabrics	W. Hanse	329,037	Oct. 27	2052	532	33	385
Loom. Terry	T. Holt, Jr., and J. Mellor	327,685	Oct. 6	250	61	33	43
Loom warp-beam	C. A. Dayton	328,297	Oct. 13	1016	264	33	192
Loom weft stop-motion	L. J. Knowles	321,226	June 30	3076	816	31	1641
Looms. Anchor shuttle-box motion for	C. Strobel	331,741	Dec. 1	745	189	33	1130
Looms. Device for connecting picking-straps to the picking-sticks of	T. H. Logan	325,350	Sept. 1	157	43	32	1044
Looms. Needle for Jacquard	A. Mutter	327,188	Sept. 29	2073	695	32	1531
Looms on breakage of the weft. Device for arresting the take-up mechanism of	A. F. Staples	333,029	Dec. 22	2579	678	33	1461
Looms. Tension-regulator for the let-off motions of	A. Middleton, Jr.	327,187	Sept. 29	2672	694	32	1531
Looms. Warp-beam for	E. S. Burlingame	325,236	Sept. 1	7	3	32	1016
Looms. Warp-beam for	G. F. Hutchins	324,770	Aug. 12	1960	512	32	894
Lotion	C. H. Eyermann	327,933	Oct. 6	554	.....	33	99
Lounge	J. T. Collins	323,915	Aug. 11	689	193	32	660
Lounge	S. L. King	319,491	June 9	709	190	31	1158
Low-water alarm	H. G. Brooks	310,786	Jan. 13	801	217	30	157
Low-water alarm	J. W. Kenyon	318,913	May 26	2660	705	31	1035
Low-water alarm	J. W. Kenyon	329,176	Oct. 27	2942	581	33	429
Low-water alarm	J. A. Straight	323,021	July 14	843	220	32	161
Low-water alarm	H. Wilson	326,370	Sept. 15	1546	401	32	1315
Low-water alarm for boilers. Electric	W. P. Ryman	323,600	Aug. 4	287	83	32	575
Low-water alarm for steam-boilers	A. Kerr	333,231	Dec. 29	2863	748	33	1535
Low-water alarms. Float for	A. Weldon	329,248	Oct. 27	2352	609	33	450
Lubricant	H. Riedel	311,529	Feb. 3	96	.....	30	367
Lubricants. Machine for testing	R. H. Thurston	332,974	Dec. 22	2487	658	33	1464
Lubricating apparatus	C. M. Long	326,304	Sept. 15	1465	391	32	1300
Lubricating bearings. Device for	G. De Laval	311,966	Feb. 10	687	188	30	443
Lubricating car-axles	O. A. Pierce	323,966	Sept. 8	991	252	32	1206
Lubricating composition	A. A. Martinez	326,311	Sept. 15	1472	.....	32	685
Lubricating compound	G. P. French	324,018	Aug. 11	827	.....	30	314
Lubricating compound	S. D. McMillan and C. H. Ham	311,347	Jan. 27	1599	.....	31	452
Lubricating compound	D. D. Wass	316,703	Apr. 28	2385	.....	30	1219
Lubricating cup	J. H. Mars	314,593	Mar. 31	2101	580	31	320
Lubricating cup	E. A. Vadhams	316,202	Apr. 21	1690	443	33	1471
Lubricating flanges and treads of car-wheels	F. S. Clarkson	332,994	Dec. 22	2630	667	31	671
Lubricating metallic surfaces. Composition for	H. W. Belknap	317,490	May 12	768	.....	30	1842
Lubricating-oil cup	J. E. Lonergan	314,695	Mar. 31	2229	593	33	304
Lubricating rotary motors. Apparatus for	C. A. Parsons	328,711	Oct. 20	1593	415	31	311
Lubricating the loose pulley of a shaft. Mechanism for	J. McCaffrey	316,159	Apr. 21	1642	429	31	323
Lubricating-valve	M. Schneider	311,379	Jan. 27	1644	449	30	.....

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dis.	Vol.	Page.
Lubricator: See Automatic lubricator. Axle-lubricator. Car-lubricator. Car-journal lubricator. Crank-lubricator. Crank-pin lubricator. Cylinder-lubricator. Eccentric-lubricator. Feed-lubricator.	Journal-lubricator. Pulley-lubricator. Pulley and wheel lubricator. Rotary lubricator. Shaft-lubricator. Steam-cylinder lubricator. Steam-engine lubricator. Steam-engine cross-head lubricator.						
Lubricator.....	H. A. Andrews.....	330,192	Nov. 10	1037	271	33	710
Lubricator.....	P. Armington.....	330,787	Nov. 17	1786	481	33	862
Lubricator.....	P. Armington.....	330,768	Nov. 17	1786	481	33	862
Lubricator.....	P. Barclay.....	322,407	July 21	1343	349	32	261
Lubricator.....	F. Bold.....	325,904	Sept. 8	910	229	33	1190
Lubricator.....	S. G. Cabell.....	320,538	June 23	2185	576	31	1468
Lubricator.....	I. Fréchette.....	311,576	Feb. 3	158	45	30	378
Lubricator.....	E. Grace and C. H. Parshall, Jr.....	330,691	Nov. 24	1948	527	33	899
Lubricator.....	J. Günther.....	321,597	July 7	259	69	32	49
Lubricator.....	C. C. Harlow.....	324,996	Aug. 25	2179	506 567	32	949
Lubricator.....	C. B. Hodges.....	322,291	July 14	1181	310	32	225
Lubricator.....	W. R. Holder.....	321,436	July 7	28	8	32	8
Lubricator.....	N. Jacobsen and H. P. Jensen.....	315,627	Apr. 14	910	239	31	169
Lubricator.....	O. H. Jewell.....	328,313	Oct. 13	1038	268	33	196
Lubricator.....	T. W. Kinkaid.....	327,398	Sept. 29	2945	769	32	1579
Lubricator.....	J. M. W. Long.....	326,908	Sept. 29	2414	631	32	1486
Lubricator.....	E. McCoy.....	320,379	June 16	1971	518	31	1422
Lubricator.....	F. L. McGahan.....	312,214	Feb. 10	1033	263	30	547
Lubricator.....	M. McMullin.....	312,283	Feb. 17	1137	312	30	575
Lubricator.....	T. B. McNiece.....	330,014	Nov. 24	1978	535	33	905
Lubricator.....	C. W. Mills.....	325,264	Sept. 1	43	13	32	1024
Lubricator.....	R. B. Motherwell.....	331,809	Dec. 8	831	212	33	1154
Lubricator.....	J. C. Mulberry.....	321,996	July 14	806	210 211	32	155
Lubricator.....	A. Noteman.....	325,356	Sept. 1	164	44	32	1046
Lubricator.....	C. H. Parshall, Jr.....	328,335	Oct. 13	1071	279	33	203
Lubricator.....	C. H. Parshall, Jr.....	328,336	Oct. 13	1072	279	33	204
Lubricator.....	L. Pfingst.....	322,123	July 14	979	255	32	187
Lubricator.....	J. Powell.....	326,517	Sept. 15	1719	448	32	1348
Lubricator.....	J. Powell.....	326,518	Sept. 15	1721	449	32	1348
Lubricator.....	J. Powell.....	326,519	Sept. 15	1723	449	32	1348
Lubricator.....	J. Powell.....	326,520	Sept. 15	1724	449	32	1348
Lubricator.....	J. Powell.....	326,521	Sept. 15	1726	450	32	1349
Lubricator.....	J. Powell.....	326,523	Dec. 15	2002	525	33	1368
Lubricator.....	F. J. Renchard.....	315,350	Apr. 14	806	213	31	150
Lubricator.....	F. J. Renchard.....	315,351	Apr. 14	808	213	31	150
Lubricator.....	F. Renders.....	315,951	Mar. 17	1264	329	30	1028
Lubricator.....	E. Root.....	328,433	Oct. 13	1214	314	33	230
Lubricator.....	R. Ruddy.....	316,834	Apr. 28	2567	672	31	485
Lubricator.....	R. Ruddy and L. Kaczander.....	329,330	Aug. 11	1275	346	32	768
Lubricator.....	P. L. Schmitt.....	329,703	June 23	2398	634	31	1509
Lubricator.....	P. L. Schmitt.....	329,704	June 23	2399	635	31	1509
Lubricator.....	S. J. Stevenson.....	310,741	Jan. 13	745	202	30	147
Lubricator.....	M. Stroder.....	329,502	Nov. 3	104	27	33	525
Lubricator.....	F. A. Strong.....	329,525	Nov. 17	1480	396	33	892
Lubricator.....	W. Y. Thomas.....	328,578	Sept. 1	483	121	32	1108
Lubricator.....	S. Townsend.....	313,034	Feb. 24	2141	592	30	767
Lubricator.....	J. Yocom, Jr.....	320,109	June 16	1564	412	31	1348
Lubricator attachment.....	J. C. Thayer.....	329,312	June 16	1860	488	31	1401
Lubricator for locomotive or other engines.....	J. W. Cloud.....	312,973	Feb. 24	2048	559	30	750
Lubricator for pistons and cylinders.....	A. and E. R. Simpson and M. Speicher.....	316,492	Apr. 28	2053	548	31	397
Lubricator for steam-engine cylinders.....	R. T. Crane.....	315,128	Apr. 7	186	46	31	34
Lumber-boom.....	U. R. Nichols.....	313,608	Mar. 10	777	204	30	930
Lumber-Compound.....	D. M. Cummings. (Reissue).....	10,599	May 26	2689	712	31	1040
Lumber-drier.....	W. B. Beard.....	321,336	June 30	3207	855	31	1666
Lumber-drier.....	W. E. Cole.....	319,677	June 9	954	253	31	1233
Lumber-drier.....	O. A. Duke.....	332,241	Dec. 15	1473	384	33	1275
Lumber-drier.....	H. J. Morton.....	311,442	Jan. 27	1726	470	30	338
Lumber-drier.....	A. S. Nichols.....	329,669	Nov. 3	325	83	33	566
Lumber-drier.....	A. M. Schilling.....	327,322	Sept. 29	2836	740	32	1561
Lumber-drier.....	H. S. Smith.....	327,030	Sept. 29	2451	640 641	32	1493
Lumber-drier.....	G. F. Starkweather.....	327,903	Oct. 6	510	132	33	91
Lumber-drier.....	G. F. Starkweather.....	327,904	Oct. 6	511	133	33	92
Lumber-drying platen.....	N. S. Bonton.....	332,991	Dec. 22	2523	666	33	1470
Lumber-elevator.....	H. T. Runyan.....	332,213	Dec. 8	1429	369	33	1261
Lumber-piler.....	C. E. Dunshee.....	321,348	June 30	3226	859 860	31	1670
Lumber-stacker.....	W. T. Smith.....	310,292	Jan. 6	89	23, 24	30	19
Lumber-transporter.....	W. Way.....	328,828	Oct. 20	1731	450	33	332
Lumber-trimmer.....	M. Dutrisac.....	326,635	Sept. 22	1883	494	32	1383
Lumber-trimmer.....	A. Rodgers.....	330,803	Nov. 17	1828	493	33	870
Lunch-box. Folding.....	G. F. Schneider.....	313,538	Mar. 10	686	180	30	914
Machine band or belting.....	G. S. Sapsworth.....	323,214	July 28	2463	655	32	473
Machine-box.....	J. G. Buzzell.....	317,087	May 5	208	52	31	561
Machine-brake.....	J. Challoner, Sr.....	316,744	Apr. 28	2448	637	31	462
Machine frame and carriage.....	F. A. Pratt.....	319,618	June 9	886	235	31	1220
Machine-table.....	R. L. and R. S. Greenlee.....	326,640	Sept. 22	1889	495 496	32	1385
Machine-table.....	W. Smith.....	319,757	June 9	1058	281	31	1252

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Machinery. Electric signaling apparatus for.....	M. W. Grovesteen.....	339,830	Nov. 3	550	140	33	607
Machinery. Implement for cleaning.....	W. Edwards.....	323,502	Aug. 4	157	47	38	523
Machinery. Sliding connection for.....	J. Clayton.....	336,622	Sept. 23	1876	491	38	1381
Magazine-boiler.....	J. T. Corbett.....	329,890	Nov. 10	637	162	33	631
Magazine-boiler.....	J. White.....	323,764	Aug. 4	501	141	38	616
Magnet armature. Electro.....	J. Steiner.....	329,782	Nov. 3	480	121	33	526
Magnet. Compound.....	S. H. Parkes.....	329,768	Nov. 3	460	116	33	522
Magnet. Electro.....	H. P. Brown.....	330,463	Nov. 17	1399	372	33	757
Magnet. Electro.....	E. D. McCracken.....	314,041	Mar. 17	1368	357	30	1049
Magnet. Electro.....	E. F. Recordon.....	312,511	Feb. 17	1455	399	30	634
Magnet. Electro.....	H. C. Spalding.....	327,469	Sept. 29	3029	791	32	1393
Magnet for signals. Electro.....	W. E. Davis.....	327,536	Oct. 6	46	10	33	10
Magnets. Armature for electro.....	J. F. Gilliland.....	323,663	Aug. 4	371	105	32	592
Magnets. Machine for winding electro.....	H. C. Spalding.....	327,470	Sept. 29	3030	791	32	1393
Magnets self-keeping. Making.....	E. B. Silliman.....	331,830	Dec. 8	868	229	33	1160
Magnetic oxide. Covering metallic objects with an electroplating of.....	W. H. Winslow.....	331,104	Nov. 24	2215	55	38	950
Magnetic oxide of iron-plated ware.....	W. H. Winslow.....	331,105	Nov. 24	2215	55	33	950
Magnetic separator.....	C. F. Hilder and E. Scott.....	315,028	Apr. 7	55	13	31	19
Magneto call-box.....	J. F. Kettell.....	331,718	Dec. 1	708	175	33	1123
Magneto-electric indicator.....	J. C. Boyle.....	332,480	Dec. 15	1791	471	33	1331
Mail-bag.....	J. A. Briggis.....	313,050	Mar. 3	15	4	30	781
Mail-bag.....	D. P. Brophy.....	331,472	Dec. 1	311	85	33	1053
Mail-bag.....	F. J. Feintheil and J. G. Dinkelbiller.....	329,155	Oct. 27	2219	574	33	424
Mail-bag.....	J. C. Franklin.....	319,220	June 2	344	92	31	1119
Mail-bag.....	N. W. Given and R. A. Dunning.....	310,411	Jan. 6	327	90	30	64
Mail-bag.....	A. J. Gould.....	310,670	Jan. 13	654	179	30	130
Mail-bag.....	A. S. Haines.....	323,070	Aug. 4	376	108	32	583
Mail-bag.....	W. A. Horrall.....	317,942	May 12	1352	363	31	769
Mail-bag.....	L. C. Huber.....	328,034	Oct. 13	686	181	33	151
Mail-bag.....	A. J. Morrison.....	323,194	July 28	2437	645	32	467
Mail-bag.....	M. F. Stellwagen and A. A. Lytle.....	313,630	Mar. 10	804	211	30	935
Mail-bag.....	E. B. Young and F. E. P'Pool.....	318,676	May 26	2339	694	31	978
Mail-bag catcher.....	P. B. Cassidy.....	311,228	Jan. 27	1428	390	30	223
Mail-bag catcher.....	P. B. Cassidy.....	317,504	May 12	783	200	31	673
Mail-bag catcher.....	H. De Lanoy.....	316,339	Apr. 21	1866	494	31	351
Mail-bag catcher.....	H. De Lanoy.....	316,340	Apr. 21	1867	494	31	351
Mail-bag catcher and deliverer.....	J. McHenry.....	319,287	June 2	490	115	31	1129
Mail-bag lock.....	D. P. Brophy.....	331,474	Dec. 1	313	84	33	1054
Mail-bag tag attachment.....	W. P. O'Hara.....	313,362	Mar. 3	458	117	30	861
Mail-bags, &c. Fastening for.....	W. Timmermann.....	327,072	Oct. 6	606	158	33	109
Mail-bags. Machine for riveting staples to.....	R. Brass.....	331,373	Dec. 1	164	42	33	1027
Mail-box.....	O. E. Miles.....	328,046	Oct. 13	700	184	33	124
Mail-crane.....	J. H. Harden.....	322,709	July 21	1750	462	32	334
Mail-crane.....	F. W. Sensiba.....	327,200	Sept. 29	2686	696	32	1535
Mail-pouch lock and cord-case. Combined.....	O. B. Young.....	314,985	Mar. 31	2655	702	30	1319
Mainpring safety device.....	L. C. Davis.....	331,774	Dec. 8	793	201	33	1147
Mainpring-winder.....	H. H. Pulver.....	333,251	Dec. 29	2891	758	33	1541
Mainpring-winder.....	A. F. Robbins.....	325,973	Sept. 8	997	254	32	1207
Majolica-ware. Imitating objects of.....	J. G. Müller.....	323,223	Aug. 4	565	155	32	630
Mallet, &c. Wooden.....	O. E. Wait.....	311,155	Jan. 20	1315	369	30	266
Malt, &c. Apparatus for crushing and grinding.....	E. Kauffeld.....	314,850	Mar. 31	2462	650	30	1285
Malt beverages. Manufacturing carbonated.....	C. H. Frings.....	316,451	Apr. 28	8043	2043	31	388
Malt-cutter and vegetable-crusher. Combined.....	E. Kauffeld.....	320,677	June 23	2611	692	31	1550
Malt-drier.....	F. Grathwohl.....	324,469	Aug. 18	1447	396	32	807
Malt-drier.....	P. Platt and J. M. Aitchison.....	316,170	Apr. 21	1652	433	31	313
Malt-drier.....	A. Schults.....	325,018	Aug. 25	2305	604	32	954
Malt-flours. Spraying apparatus for.....	O. Bothner.....	326,197	Sept. 15	1305	338	32	1270
Malt liquors from starch, &c. Manufacturing.....	W. T. Jobb.....	316,367	Apr. 21	1906	504	31	352
Malt-stirring machine.....	A. J. Reynolds.....	325,019	Aug. 25	2199	602	32	953
Malting, brewing, &c.....	R. D'Heurouse.....	318,548	May 26	2185	555	31	949
Maltose. Manufacturing.....	L. Cuisinier.....	311,417	Jan. 27	1694	427	30	328
Man-hole cover for sewers, street-vaults, &c. Self-locking.....	H. C. Lowrie.....	317,153	May 5	300	77	31	678
Mandrel.....	S. P. M. Tasker.....	331,570	Dec. 1	453	117	33	1079
Mandrel.....	S. P. M. Tasker.....	331,578	Dec. 1	485	120	33	1063
Mandrel. Expanding.....	G. Shelley.....	311,788	Feb. 3	424	115	30	428
Mandrel for use in welding links.....	T. A. Griffin and C. Atkins.....	326,974	Sept. 29	2384	624	32	1480
Mandrel. Roller.....	S. P. M. Tasker.....	331,573	Dec. 1	463	119	33	1060
Mangle.....	J. W. Baker.....	316,435	Apr. 28	2018	529	31	324
Mangle.....	G. Scott.....	316,838	Apr. 28	2579	674	30	1119
Mangle.....	J. J. A. Sörensen.....	314,369	Mar. 24	1667	443	30	450
Mangle.....	C. Whitney.....	329,250	Oct. 27	2354	609	32	78
Mantel.....	J. Hewitt.....	321,723	July 7	416	111	32	78
Manure-distributor.....	J. E. Person.....	331,540	Dec. 1	403	109	33	1071
Manure-drill.....	J. D. Armstrong.....	317,483	May 12	758	193	31	680
Manure-drill.....	A. J. Hearne.....	320,133	June 16	1596	422	31	1354
Manure-fork.....	A. Niebel.....	310,810	Apr. 28	2331	669	32	676
Manuscript-holder. Automatic revolving.....	H. E. Twichell.....	323,979	Aug. 11	775	216	32	1530
Map and chart standard.....	J. S. Fox.....	333,211	Dec. 29	2632	741	31	1474
Map, chart, &c. Relief.....	L. R. Klemm.....	320,564	June 23	2215	566	32	1216
Map, chart, or picture suspender.....	J. Brownlee.....	326,013	Sept. 8	1051	267	32	1147
Map-exhibitor.....	J. A. Whipple.....	314,405	Mar. 24	1847	492	33	1250
Map or chart attachment.....	G. F. Schild.....	332,167	Dec. 8	1369	354	33	1048
Map-rack.....	A. H. Hall.....	325,337	Sept. 1	142	39	32	505
Map-rack.....	F. P. Montgomery.....	316,905	Apr. 28	2676	697	31	636
Marine boiler.....	E. S. T. Kennedy.....	329,912	Nov. 10	661	169	33	667
Marine brake.....	J. McAdams.....	330,034	Nov. 10	827	212	33	925
Marker for seeding machines and check-rows.....	J. E. Paradis.....	316,054	Apr. 21	1489	389	31	628

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Marker, hiller, and digger. Combined potato	E. C. Schroeder	316,403	Apr. 21	1957	516	31	367
Marker. Land	T. W. Beal	328,561	Oct. 20	1380	{ 359 360 }	33	266
Marker. Land	P. M. Dice	332,792	Dec. 22	2245	592	33	1419
Marker. Land	W. H. King	312,130	Feb. 10	902	246	30	524
Marking device	S. H. Brown	325,154	Aug. 25	2374	654	32	957
Marking-gage	R. Steele	310,964	Jan. 20	1046	284	30	206
Marking or graduating machine	W. E. Hatheway	324,319	Aug. 11	1248	339	32	763
Marquetry	A. J. B. A. Chatain	310,381	Jan. 6	294	81	30	56
Mash. Apparatus for boiling and cooling	E. Kauffeld	325,091	Aug. 25	2299	632	32	973
Mash-machine	J. B. Add	327,751	Oct. 6	324	83	33	57
Mash-tub. Beer	L. S. Kuhn	313,430	Mar. 3	544	143	30	878
Mashes. Machinery for cooking	L. S. Kuhn	313,432	Mar. 3	548	144	30	879
Mashing and cooking grain. Method of and apparatus for	F. O. Kunz	311,590	Feb. 3	178	50	30	381
Mashing apparatus	C. Andersen	332,774	Dec. 22	2223	586	33	1415
Mashing apparatus	J. K. Hammerle	317,769	May 12	1121	295	31	736
Mashing apparatus	J. F. Gent	313,070	Mar. 3	43	11	30	786
Mashing. Preparing maize for	L. S. Kuhn	313,431	Mar. 3	546	143	30	879
Mask	C. C. Fuller	327,438	Sept. 29	2293	782	32	1588
Masts. Withe-band stay for	R. B. Chute	332,232	Dec. 15	1456	378	33	1272
Mat:							
See Advertising-mat. Oil-press mat.							
Electric mat. Picture-mat.							
Oil-mat. Seed-press mat.							
Mat or floor-covering	R. Martinez	332,921	Dec. 22	2418	639	33	1452
Match	R. F. Cooke	326,851	Sept. 22	2210	576	32	1443
Match-blanks. Machine for making	G. E. Norris and W. E. Hagan	321,444	July 7	39	11, 12	32	10
Match-box	S. W. Hoag	311,129	Jan. 20	1279	352	30	250
Match-box	W. F. Hyatt	327,689	Oct. 6	254	63	33	44
Match-box and cigar-cutter. Combined	C. Bartsen	318,590	May 26	2234	597	31	957
Match-box and cigar-cutter. Combined	R. M. Collard	311,230	Jan. 27	1430	390	30	283
Match-box and cigar-cutter. Combined	M. L. Dixon	317,980	May 19	1415	380	31	800
Match-box and cigar-cutter. Combined	W. M. Ducker	323,025	July 28	2207	583	32	423
Match-box and cigar-cutter. Combined	W. M. Ducker	323,026	July 28	2209	584	32	423
Match-box and cigar-cutter. Combined	W. M. Ducker	323,028	July 28	2211	584	32	424
Match-box and cigar-cutter. Combined	W. M. Ducker	323,029	July 28	2212	584	32	424
Match-box and cigar-cutter. Combined	E. P. Williams, Jr.	327,369	Sept. 29	2205	758	32	1573
Match-boxes. Machine for making	F. P. Newton and E. B. Beecher	322,470	July 21	1427	{ 373 374 375 376 }	32	276
Match-card	R. G. Britton	311,932	Feb. 10	664	182	30	479
Match-lighting device. Flexible	D. E. Carroll	327,656	Oct. 6	213	53	33	38
Match-making machine	G. E. Norris and W. E. Hagan	332,737	Dec. 22	2175	{ 574 575 }	33	1406
Match-safe	G. P. Roberts	319,322	June 2	472	128	31	1138
Match-safe and cigar-clipper. Combined	E. L. Lake and L. S. Crandall	316,466	Apr. 28	2060	540	31	391
Match-safe for lanterns	J. W. Dick	317,747	May 12	1095	287	31	730
Match-splint machine	G. Flewelling and G. J. Harris	322,706	July 21	1746	461	32	334
Match-splint straightener	A. W. Jones	314,680	Mar. 31	2214	588	30	1239
Match-splints. Machine for straightening	W. H. Wyman	322,145	July 14	1012	263	32	192
Matches. Apparatus for dipping	E. B. Eddy, G. H. Millen, and E. Mousseau	313,064	Mar. 3	37	10	30	785
Matches. Apparatus for dipping	W. E. Hagan and G. E. Norris	331,129	Nov. 24	2258	{ 613 614 12 13 14 15 }	33	957
Matches. Machine for making	G. E. Norris and W. E. Hagan	321,445	July 7	45	{ 13 14 15 }	32	11
Matrix-making and printing machine	O. Mergenthaler	328,960	Oct. 27	1927	{ 502 503 455 456 }	33	373
Matrix-strips. Machine for justifying	J. H. White	311,400	Jan. 27	1069	456	30	328
Matting and carpet binding	C. E. Knapp	324,942	Aug. 25	2008	514	32	938
Mattress	A. Altmann	324,349	Aug. 18	1292	351	32	779
Mattress	S. Fulton	322,366	July 14	1285	336	32	944
Mattress	F. Muhl and J. S. Carson	319,419	June 2	590	161	31	1161
Mattress	G. D. Peters	322,432	Dec. 15	1735	454	33	1321
Mattress. Baby	L. Kosa	321,983	July 14	789	205	32	152
Mattress. Folding wire	C. H. Hard	318,728	May 26	2405	641	31	991
Mattress-machine	J. M. Mears and R. Jennings	322,740	July 21	1793	{ 472 473 }	32	342
Mattress-rack	G. E. Bedell	330,370	Nov. 17	1276	339	33	764
Mattress. Ventilated	P. Goutevenier	327,677	Oct. 6	243	59	33	42
Mattresses. Material for filling	R. Stilwell	312,036	Feb. 10	761	.....	30	501
Measure	G. W. Knapp	325,842	Sept. 8	832	210	32	1176
Measure and register. Automatic grain	P. Kaufmann	319,622	June 9	1161	307	31	1270
Measure for dry-goods, &c. Self-indicating	C. C. Springle and C. J. Raiffelsen	322,965	Dec. 22	2476	656	33	1463
Measure for horses. Height	I. Wainwright	325,134	Aug. 25	2351	648	32	983
Measure for thrashing-machines. Automatic grain	J. Borah	325,046	Aug. 25	2240	614	32	962
Measure. Liquid	W. H. Gantner	311,304	Jan. 27	1537	418	30	303
Measure. Liquid	W. and J. H. Mittendorf	325,265	Sept. 1	45	13	32	1024
Measure. Lumber	E. N. Barber	332,864	Dec. 22	2339	619	33	1435
Measure, register, and sacker. Grain	J. F. Porter	327,718	Oct. 6	289	74	33	51
Measure. Shoe-maker's	A. S. Adler	322,238	July 14	1123	292	32	214
Measure-spout	F. Etheridge	313,191	Mar. 3	228	57	30	818
Measure. Tailor's	G. J. and E. Chambers	332,783	Dec. 22	2234	589	33	1417
Measurement of optical lenses. Instrument for the focal	F. Scharpf	327,692	Oct. 6	131	31	33	25
Measuring and elevating grain. Machine for	S. R. Daxon	320,465	June 23	2091	555	31	1451
Measuring and facing machine. Cloth	B. Heumann and F. B. Pease	310,425	Jan. 6	341	94	30	66
Measuring and fitting device. Garment	W. B. Pollock	320,496	June 23	2126	{ 560 561 }	31	1458

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Measuring and inspecting machine. Cloth	C. C. Webber	310,757	Jan. 13	765	208	30	150
Measuring and marking cloth. Machine for	M. B. Smith and L. J. A. Roswall	321,393	June 30	3287	878	31	1681
Measuring and trimming fabrics. Machine for	G. W. Parsons	324,155	Aug. 11	1016	278	32	719
Measuring apparatus for liquid carbonic acid	E. Luhmann	327,448	Sept. 29	3004	785	32	1589
Measuring apparatus. Grain	O. P. and O. E. Wagner	315,682	Apr. 14	976	255	31	183
Measuring device and register for fencing material	J. B. Thies	327,905	Oct. 6	513	133	33	92
Measuring device. Cloth	W. H. H. Frye	316,887	Apr. 28	2642	688	31	499
Measuring device for liquids. Automatic	J. Prax	316,910	Apr. 28	2684	699	31	506
Measuring device for oil-tanks	J. P. Lauer and A. Voiders	327,500	Oct. 6	77	17	33	15
Measuring device. Tailor's	J. S. Hand	324,022	Aug. 11	831	230	32	625
Measuring distances. Apparatus for	L. Cerebotani	310,253	Jan. 6	120	34	30	25
Measuring for garments. System of	H. A. Jackson	326,172	Sept. 29	2649	689	32	1587
Measuring garments. System and device for	S. M. Hendrick	325,409	Sept. 1	262	65	32	1065
Measuring instrument. Lumber	E. Y. Knapp	319,911	June 9	1283	339	31	1290
Measuring-instrument. Electrical	E. Weston	327,908	Oct. 6	516	135	33	92
Measuring-jacket	H. Lingen	312,211	Feb. 10	1028	251	30	546
Measuring liquids. Device for	F. Bach	329,427	Nov. 3	2	1	33	505
Measuring machine. Fabric	J. W. Kruger	327,178	Sept. 29	2682	692	32	1529
Measuring-staff. Registering	H. Gregg	316,358	Apr. 21	1869	500	31	355
Measuring the areas of surfaces. Machine for	W. A. Sawyer	329,596	Nov. 3	235	60, 61	33	550
Measuring the areas of surfaces. Machine for	W. A. Sawyer	329,597	Nov. 3	238	62	33	551
Measuring the flow of liquids. Apparatus for	W. A. M. Brown and J. M. Porter	314,914	Mar. 31	2554	675	30	1301
Measuring the length of fabrics. Apparatus for	E. H. Eisenhart	327,540	Oct. 6	49	11, 12	33	10
Measuring tool. Taper	F. Waite and F. H. Tidgewell	318,526	May 26	2141	576	31	943
Measuring utensil. Multiple	P. C. Goodwin	315,768	Apr. 14	1107	291	31	207
Measuring-vessel	G. C. Smith	312,030	Feb. 10	776	211	30	500
Measuring-vessel	E. R. Stasch	332,297	Dec. 15	1544	404	33	1288
Measuring-vessel. Graduated	J. J. Hicks	320,184	June 23	2495	661	31	1528
Meat and oil press box	J. J. Culbertson, J. C. O'Connell, and B. Gaston	318,875	May 26	2614	694	31	1026
Meat and vegetable slicer	A. Iske	322,293	July 14	1184	311	32	225
Meat-chopper	A. B. Baum	333,381	Dec. 29	3061	798	33	1571
Meat-chopper	W. M. Mathes	313,356	Mar. 3	450	114	30	859
Meat-chopping machine	A. Heusch	332,608	Dec. 15	1963	519	33	1364
Meat. Composition for curing	T. H. Riethmüller	329,774	Nov. 3	470	.....	33	594
Meat crusher or tenderer	W. L. Freese	330,310	Nov. 10	1184	316	33	740
Meat-cutter	R. B. Humphrey	319,928	June 9	1306	344	31	1585
Meat cutter. Sausage	J. R. Grath and T. K. Watson	324,835	Aug. 25	1980	538	32	909
Meat-cutting machine	T. Johnston	319,910	June 9	1281	337	31	1290
Meat-cutting machine	R. McCheaney	331,900	Dec. 8	969	251	33	1179
Meat-cutting machine	B. F. Penny	321,751	July 7	463	124	32	86
Meat extract	J. Schweitzer	326,793	Sept. 22	2133	.....	32	1428
Meat-freezer	C. N. Shaw	316,840	Apr. 28	2581	675	31	487
Meat-mincing machine	P. Billingham	328,641	Oct. 20	1502	391	33	298
Meat-shipping can, box, or package. Fresh	R. Bogardus	317,615	May 12	928	238	31	690
Meat-slicer	E. Covert	329,818	Nov. 3	530	135	33	605
Meat-tenderer	F. W. Carter	315,723	Apr. 14	1034	272	31	193
Meat-tenderer	S. Kesner	311,901	Feb. 10	505	163	30	466
Meat-tenderer	C. Lacosse	326,060	Sept. 22	1915	503	32	1389
Meat-tenderer	S. A. Moulton	311,199	Jan. 27	1383	378	30	275
Meat-tenderer	W. Robinson	329,775	Nov. 3	470	119	33	584
Meat-tenderer	L. Stone	311,451	Jan. 27	1737	473	30	340
Meats. Preservative coating for	C. Bartels	318,851	May 26	2579	.....	31	1019
Meats. Preserving	G. Holgate	312,925	Feb. 24	2080	.....	30	756
Mechanical motor	P. F. Bugbee	331,046	Dec. 8	1188	311	33	1219
Mechanical motor	M. Coon	310,256	Jan. 6	127	36	30	26
Mechanical motor	J. A. Emmert and L. P. Klutts	314,441	Mar. 24	1893	505	30	1156
Mechanical motor	F. D. Jones	313,598	Mar. 10	765	201	30	928
Mechanical motor	F. D. Jones and H. M. Hart	330,029	Nov. 10	822	211	33	686
Mechanical motor	J. H. Thornburg	318,832	May 26	2552	680	31	1015
Mechanical movement	W. H. Anderson	311,220	Jan. 27	1418	366	30	281
Mechanical movement	O. Arnold	315,883	Apr. 14	1257	328	31	234
Mechanical movement	J. Bacon	315,378	Apr. 7	537	138	31	97
Mechanical movement	C. T. Brown	324,003	Aug. 11	803	223	32	681
Mechanical movement	W. S. Carlisle	317,723	May 12	1059	276	31	784
Mechanical movement	J. H. Carrington	311,643	Feb. 3	243	68	30	395
Mechanical movement	L. Chevallier	323,789	Aug. 4	524	148	32	621
Mechanical movement	A. L. Cushman	328,014	Oct. 13	662	174	33	187
Mechanical movement	J. W. Dodge	318,456	May 26	2041	551	31	925
Mechanical movement	L. D. Farra	321,189	June 30	3048	807	31	1635
Mechanical movement	G. D. Ferris	331,695	Dec. 1	679	168	33	1118
Mechanical movement	J. F. Foss	316,136	Apr. 21	1613	421	31	305
Mechanical movement	S. A. Hand	313,324	Mar. 3	413	103	30	852
Mechanical movement	T. S. Huntington	316,897	Apr. 28	2682	693	31	502
Mechanical movement	W. Koch	315,639	Apr. 14	923	242	31	172
Mechanical movement	T. A. Macaulay	326,573	Sept. 22	1781	470	32	1368
Mechanical movement	B. F. Meyer	330,255	Nov. 10	1109	294	33	725
Mechanical movement	J. G. Meyers	312,001	Feb. 10	735	201	30	492
Mechanical movement	R. Miehe	317,663	May 12	984	256	31	710
Mechanical movement	J. Morwitz	315,431	Apr. 7	690	159	31	110
Mechanical movement	J. Morwitz	315,432	Apr. 7	621	159	31	111
Mechanical movement	P. A. Myers	333,477	Dec. 29	3191	894	33	1582
Mechanical movement	C. H. Newbury	326,052	Sept. 8	1103	281	32	1226
Mechanical movement	F. L. Palmer	313,230	Mar. 3	229	73	30	829
Mechanical movement	G. R. Peare	333,328	Dec. 29	2996	785	33	1561
Mechanical movement	O. A. Pickle	323,070	July 28	2267	599	32	435

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Mechanical movement	J. W. Portis	311,362	Jan. 27	1622	444	30	318
Mechanical movement	H. E. Pridmore	325,270	Sept. 1	50	15	32	1025
Mechanical movement	W. H. Rankin	312,760	Feb. 24	1775	489	30	703
Mechanical movement	G. M. Reed	311,447	Jan. 27	1732	473	30	339
Mechanical movement	L. Schultz	330,156	Nov. 10	991	258	33	701
Mechanical movement	H. Schulze-Berge	320,706	June 23	2401	635	31	1510
Mechanical movement	J. Thomson	331,845	Dec. 8	891	230	33	1165
Mechanical movement	J. Thomson	331,846	Dec. 8	892	231	33	1165
Mechanical movement	J. Thomson	331,847	Dec. 8	894	231	33	1166
Mechanical movement	S. Tideman	321,062	June 30	2876	705	31	1604
Mechanical movement	M. B. True	327,741	Oct. 6	312	80	33	55
Mechanical movement	W. P. Valentine	328,090	Oct. 13	764	199	33	144
Mechanical movement	C. F. Veit	324,280	Aug. 11	1195	324	32	753
Mechanical movement	F. M. Waters	310,924	Jan. 20	983	267	30	195
Mechanical movement	J. L. Willford	315,202	Apr. 7	316	77	31	57
Mechanical movement. Alternating reversing	C. C. Burton	312,249	Feb. 17	1078	297	30	564
Mechanical movement for reversing motion	G. H. Perkins and O. Smith	314,469	Mar. 24	1938	516	30	1163
Mechanical power	G. E. Saunders	317,023	May 5	122	31	31	544
Mechanical traverse-table	W. D. Patterson	318,578	May 26	2220	593	31	955
Medallions, &c. Manufacture and ornamentation of	J. G. Kearsing	317,143	May 5	925	72	31	575
Medical apparatus. Electro-	A. Metzger	329,929	Nov. 10	683	175	33	640
Medical battery	O. Flemming	330,547	June 23	2196	580	31	1470
Medical compound	R. Baumann	312,953	Feb. 24	2021	30	746	
Medical compound	J. T. Bunting	325,586	Sept. 1	492	32	1110	
Medical compound	J. O'Flaherty	325,007	Aug. 25	2194	32	952	
Medical compound	S. W. Neuer	331,539	July 7	595	32	109	
Medical compound	C. J. Ulrich	334,361	Dec. 29	3039	53	1568	
Medical compound	J. Waller	311,930	Feb. 10	629	30	474	
Medical compound	S. D. Willis	327,847	Oct. 6	443	33	78	
Medical purposes. Pad for	W. W. Ray	312,238	Mar. 3	301	76	30	631
Medical rubbing apparatus	M. G. Farmer	317,327	May 5	547	159	31	623
Medical still or vapor-generator	L. M. Emery	310,568	Jan. 13	524	144	30	106
Medical treatment. Rubber water-bag for	D. Roberts	329,955	Nov. 10	722	184	33	647
Medical use. Induction-coil for	J. C. Vetter	330,531	Nov. 17	1466	397	33	803
Medicinal emulsion	J. Carnrick	327,329	Sept. 29	2717	32	1541	
Medicinal emulsion	J. Carnrick	327,330	Sept. 29	2718	32	1541	
Medicinal emulsion	J. Carnrick	327,331	Sept. 29	2719	32	1541	
Medicinal emulsion	J. Carnrick	327,332	Sept. 29	2720	32	1541	
Medicinal emulsion	J. Carnrick	327,333	Sept. 29	2721	32	1541	
(Medicine.) Blackleg. Remedy for	C. L. Hussey	329,804	Dec. 22	2257	33	1421	
(Medicine.) Cough remedy	M. M. Lamontagne	312,132	Feb. 10	905	30	524	
(Medicine.) Cough remedy	J. F. Richardson	329,046	Dec. 22	2455	33	1459	
(Medicine.) Dyspepsia remedy	J. E. Wright	314,312	Mar. 17	1583	30	1087	
Medicine for croup, diphtheria, &c.	G. Erickson and W. Lindblom	311,684	Feb. 10	555	30	460	
Medicine for diphtheria	J. A. Ream	326,589	Sept. 22	1813	32	1373	
Medicine for hog-cholera	C. Rohning	327,412	Sept. 29	2964	32	1582	
(Medicine.) Laxative compound	C. N. Waite	330,532	Nov. 17	1467	33	804	
(Medicine.) Liver and kidney diseases. Remedy for	G. P. Hilton	310,427	Jan. 6	343	30	67	
(Medicine.) Rheumatism remedy	J. R. Barr	329,697	Nov. 3	365	33	574	
(Medicine.) Rheumatism remedy	S. Nash	328,577	Oct. 20	1304	33	254	
(Medicine.) Vermifuge	A. Regan	314,441	Mar. 24	1950	30	1165	
Medicine. Apparatus for spraying	P. Lochmann	316,468	Apr. 28	2062	540	31	391
Menthol. Process of obtaining	A. M. Todd	330,274	Nov. 10	1136	302	33	730
Merchandise-holder	H. Meinhardt	312,742	Feb. 24	1752	492	30	698
Merchandise-indicator	S. H. Brown	315,216	Apr. 7	362	59	31	65
Mercurial ores. Extracting arsenic and mercury contained in the residues obtained in the distillation of	A. Van Straaler	320,417	June 16	2021	31	1430	
Mercury from its ores. Apparatus for extracting	H. Berrens	331,860	Dec. 8	913	236	33	1169
Messenger-signal and fire-alarm apparatus	J. J. O'Neill	313,610	Mar. 10	778	205	30	931
Metal. Apparatus for containing and transferring molten	H. Schulze-Berge	329,491	Nov. 3	90	24	33	522
Metal barbs. Machine for forming and setting flat.	A. J. Bates	318,079	May 19	1546	414	31	823
Metal bar. Composite	E. S. Brainerd	324,527	Aug. 18	1531	422	32	822
Metal bars. Apparatus for bending	J. H. Thomas	312,303	Feb. 17	1161	318	30	579
Metal bars. Machine for drawing cold	W. Allderdice	329,800	Nov. 3	501	127	33	600
Metal bars, &c. Machine for straightening	L. D. York	316,109	Apr. 21	1562	407	31	296
Metal-bending machine	O. C. Knipe	310,298	Jan. 6	167	46	30	33
Metal-bending machine	A. Urbahn	313,459	Mar. 3	588	151	30	886
Metal-bending machine	A. Urbahn	313,969	Mar. 17	1280	334	30	1031
Metal bending and straightening machine	W. J. Manchester	319,603	June 9	867	220	31	1917
Metal blanks. Machine for drilling	W. L. Groat and E. L. Bowers	333,461	Dec. 29	3169	828	33	1580
Metal-boring bit	L. R. Faight	327,148	Sept. 29	2617	682	32	1521
Metal-cleaning composition	O. H. Mclum	314,256	Mar. 24	1645	30	1108	
Metal. Coating	W. J. Wilder	313,700	Mar. 10	896	233	30	954
Metal-coating apparatus	E. I. Braddock and D. A. Ritchie	311,284	Jan. 27	1513	413	30	299
Metal-cutters. Device for holding	L. R. Faight	327,149	Sept. 29	2618	682	32	1521
Metal-cutters. Device for holding	L. R. Faight	327,151	Sept. 29	2623	683	32	1522
Metal-cutting tool	G. Hoefler	319,816	June 9	1154	305	31	1268
Metal. Device for spiraling	J. B. Robinson	316,295	Apr. 21	1813	477	31	341
Metal-drill	F. H. Richards	320,966	June 30	2741	729	31	1579
Metal-drills. Manufacture of	F. H. Richards	320,967	June 30	2743	729	31	1580
Metal-drilling tool	T. Scheffer	314,059	Mar. 17	1387	362	30	1052
Metal-extracting apparatus	W. Hamilton	311,748	Feb. 3	374	103	30	419
Metal-extracting apparatus	W. Hamilton	311,749	Feb. 3	377	103	30	419
Metal-extracting apparatus	J. L. Hornig	313,208	Mar. 3	248	62	30	823
Metal-handling device	W. O. Nightengale	319,926	June 9	1301	343	31	1294
Metal-heating furnace	W. Hart	316,963	May 5	44	12	31	530
Metal mold	T. O. Bennett	325,043	Aug. 25	2237	614	32	962
Metal ovals. Machine for cutting	J. Lyall	324,331	Aug. 11	1265	343	32	766
Metal pipes or tubes. Construction of wrought-	A. H. Emery	322,053	July 14	825	229	32	169

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Metal plates. Apparatus for coating.....	H. F. Taylor and G. Leyshon.....	329,240	Oct. 27	2339	{ 605 606 }	33	447
Metal press. Fluid.....	W. R. Hinsdale.....	330,895	Nov. 24	1951	{ 528 529 }	33	900
Metal-pressing apparatus. Fluid.....	W. R. Hinsdale.....	332,656	Dec. 15	2053	540	33	1377
Metal ribbon. Apparatus for polishing.....	J. Logan.....	328,125	Oct. 13	805	210	33	152
Metal rods. Colling.....	R. W. Kennedy.....	310,526	Jan. 6	458		30	89
Metal rods. Forming grooved.....	W. A. McCool.....	328,797	Oct. 20	1692	440	33	324
Metal rods or bars. Machine for drawing.....	W. Alderdice.....	323,619	Aug. 4	313	90, 91	32	580
Metal rods or wire. Device for reducing the diameter of.....	J. F. Bogan.....	313,283	Mar. 3	356	88	30	841
Metal rolls. Machine for grooving.....	C. B. and W. H. Campbell.....	331,613	Dec. 1	551	{ 135 136 137 }	33	1094
Metal-shears.....	G. McDonald.....	311,999	Feb. 10	733	200	30	491
Metal-shears.....	C. A. Srenasson.....	317,883	May 12	1274	339	31	765
Metal-shearing machine.....	A. Stover.....	329,096	Oct. 27	2136	552	33	409
Metal-slitting machine.....	J. N. Short.....	311,263	Jan. 27	1476	{ 403 404 }	30	292
Metal-stripping machine.....	H. S. Bacon.....	319,772	June 9	1080	227	31	1255
Metal surfaces. Machine for grinding.....	A. Dawes.....	329,289	Oct. 27	2407	624	33	461
Metal table.....	H. A. Matthews.....	315,310	Apr. 7	473	114	31	82
Metal-turning tool.....	E. Horton.....	316,787	Apr. 28	2502	653	31	473
Metal tube.....	E. Levavasseur.....	330,910	Nov. 24	1973	533	33	904
Metal-workers' shears.....	W. L. Warner.....	325,291	Sept. 1	82	94	32	1031
Metal-working machine. Compound.....	E. A. Oliver.....	322,247	July 21	1937	512	32	362
Metal-working machine. Compound.....	A. S. Towle.....	321,547	July 7	198	52	32	39
Metal-working machine. Compound.....	A. S. Towle. (Reissue).....	10,665	Nov. 24	2472	667	33	994
Metal-working machines. Work-holder for.....	L. Cosgrove.....	316,526	Apr. 28	2133	561	31	405
Metals and minerals. Machine for separating.....	J. M. Williams.....	316,211	Apr. 21	1699	{ 446 447 }	31	322
Metals. Apparatus for pouring and casting.....	C. A. Caspersen.....	324,918	Aug. 25	2069	566	32	930
Metals. Apparatus for recovering volatilized.....	A. F. Wendt.....	311,699	Feb. 3	312	85	30	408
Metals. Apparatus for the electrolytical separation and deposition of.....	B. Moebius.....	310,533	Jan. 6	472	{ 120 130 131 132 133 }	30	91
Metals by means of electrolysis. Apparatus for treating.....	H. R. Cassel.....	312,614	Feb. 24	1844	506	30	714
Metals. Porte caustique for testing.....	E. Huber.....	323,511	Aug. 4	257	75	32	569
Metals. Purifying.....	C. Edwards.....	314,004	Mar. 17	1321	344	30	1039
Metals. Separation of.....	B. Moebius.....	310,302	Jan. 6	188		30	36
Metallic compound.....	F. Kavanaugh.....	323,436	Aug. 4	54		32	533
Metallic fabric.....	W. C. Edge.....	324,014	Aug. 11	823	228	32	684
Metallic fabric.....	W. C. Edge.....	324,015	Aug. 11	824	228	32	684
Metallic fabric.....	W. C. Edge.....	331,044	Nov. 24	2136	579	33	935
Metallic fabric.....	W. Hewitt.....	314,576	Mar. 31	2084	556	30	1216
Metallic fabric.....	W. Hewitt.....	316,458	Apr. 28	2049	537	31	389
Metallic goods. Manufacturing perforated.....	J. J. Callow.....	313,605	Mar. 10	1044		30	950
Metallic plate-joints. Fusing.....	C. H. Wilson and J. Stuart.....	333,371	Dec. 29	3051	796	33	1569
Metallic screening. Machine for making slashed.....	J. F. Golding and G. B. Durkee.....	320,241	June 16	1733	{ 460 461 }	31	1379
Metallic screening. Making slashed.....	J. F. Golding and G. B. Durkee.....	320,242	June 16	1735	461	31	1380
Metallic screening material. Making.....	J. F. Golding.....	320,240	June 16	1732	479	31	1379
Metallic strips. Machine for barbing.....	T. H. Morgan.....	323,713	Aug. 4	429	123	32	604
Metallic strips. Machine for spirally winding.....	E. Tyrrell and M. S. Shipley.....	312,590	Feb. 17	1553	422	30	653
Metallic wheel.....	J. W. Marshall.....	315,805	Apr. 14	1148	301	31	215
Metallurgical gas-furnace.....	J. S. Seibert.....	315,846	Apr. 14	1201	313	31	224
Metallurgical operations. Drying air for.....	J. H. Cremer.....	320,361	Nov. 17	1292	343	33	707
Metallurgical apparatus.....	J. E. Clayton and S. F. Mackie.....	330,961	Nov. 24	2043	{ 552 553 }	33	917
Metallurgical furnace.....	W. McKenna.....	310,454	Jan. 6	372	103	30	73
Metallurgical furnace.....	S. T. Owens.....	321,311	June 30	3180	{ 847 848 }	31	1661
Meter:							
See Current-meter. Gas-meter.							
Electric meter. Grain-meter.							
Electric current meter. Liquid-meter.							
meter. Oscillating meter.							
Electrical meter. Piston-meter.							
Fluid-meter. Water-meter.							
Fluid piston-meter.							
Methylene-blue by electrolysis. Manufacture of.....	W. Majert.....	323,514	Aug. 4	172	50	32	554
Micrometer-gage.....	E. A. Marsh.....	329,181	Oct. 27	2248	{ 562 563 }	33	430
Micrometer-gage.....	J. Moffitt.....	319,919	June 9	1293	341	31	1992
Micrometer-gage.....	J. E. Sweet.....	313,552	Mar. 10	702	184	30	917
Micrometer-gage for watch-makers.....	E. Clark.....	331,116	Nov. 24	2242	610	33	954
Micrometer-gages. Adjustable anvil for.....	F. Spaulding.....	332,118	Dec. 8	1300	377	33	1238
Microphone.....	H. E. Waite and S. H. Bartlett.....	316,904	Apr. 21	1692	444	31	321
Microscope.....	E. Bausch.....	328,277	Oct. 13	994	250	33	158
Microtome.....	E. Bausch.....	325,722	Sept. 8	684	171	32	1147
Middlings-purifier.....	E. T. Butler and T. McFeely.....	311,908	Feb. 3	447	121	30	432
Middlings-purifier.....	J. H. Case.....	310,181	Jan. 6	27	78	30	7
Middlings-purifier.....	W. Klostermann.....	332,615	Dec. 15	1992	522	33	1366
Middlings-purifier.....	W. Klostermann.....	332,616	Dec. 15	1994	523	33	1366
Middlings-purifier.....	F. Prinz. (Reissue).....	10,591	Apr. 28	2792	{ 708 709 }	31	514
Middlings-purifier.....	G. F. Sherwood.....	330,745	Nov. 17	1756	473	33	856
Middlings-purifier.....	C. H. Sinderson.....	327,607	Oct. 6	138	33	33	36
Middlings-purifier.....	C. A. Smith.....	330,746	Nov. 17	1758	{ 474 475 }	33	857
Middlings-purifier.....	J. L. Willford.....	328,269	Oct. 13	992	276	33	136

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Middlings purifier and separator.	E. W. Howard.	329,168	Oct. 27	2234	578	33	427
Middlings-purifier brush.	J. Wegman, Jr.	319,763	June 9	1067	283	31	1253
Middlings-purifiers. Cleaning-brush for.	C. Wehner	311,622	Feb. 3	217	61	30	389
Middlings-purifiers. Combined dust catcher and separator for.	J. R. Taylor and P. Lockwood.	325,713	Sept. 8	672	168	32	1146
Milk and cream. Centrifugal machine for testing.	J. D. Frederiksen and P. Rasch	330,779	Nov. 17	1799	485	33	864
Milk and cream. Centrifugal machine for testing.	J. D. Frederiksen and P. Rasch	330,780	Nov. 17	1800	485	33	865
Milk and water cooler.	E. Williams	322,144	July 14	1011	263	32	192
Milk-aerator	H. B. Long and E. L. Hill.	323,347	July 28	2655	706	32	505
Milk-can	N. Gerber	311,975	Feb. 10	703	193	30	426
Milk-can	J. C. Milligan and J. Chaumont.	311,440	Jan. 27	1723	469	30	337
Milk-can	C. S. Raymond	315,835	Apr. 14	1185	309	31	222
Milk-can	E. Slaght	326,341	Sept. 15	1507	393	32	1308
Milk-can	H. Taylor	324,611	Aug. 18	1041	452	32	843
Milk-can cover	D. F. Crippen	324,539	Aug. 18	1543	426	32	824
Milk-can cover	H. L. Ives	323,153	July 28	2369	628	32	455
Milk-can cover	J. A. Seal	327,325	Sept. 29	2839	741	32	1502
Milk-can lock.	W. J. Hussey	326,083	Sept. 8	1149	292	32	1234
Milk-can or carrier.	R. B. Anderson	315,371	Apr. 7	529	135	31	96
Milk-cans. Non-conducting covering for.	T. Williams	326,189	Sept. 15	1296	336	32	1268
Milk-cans to wagons. Device for attaching.	C. W. Bishop	329,431	Nov. 3	7	2	33	506
Milk. Condensed.	A. H. Sabin	319,778	Nov. 3	474		33	569
Milk. Condensed peptonized.	W. H. Thew	324,754	Aug. 4	484		32	614
Milk. Condensing peptonized.	W. H. Thew	324,048	Aug. 11	866		32	691
Milk-cooler	G. B. Dawson	322,014	July 14	874	227	32	167
Milk-cooler	J. R. Ensminger.	321,490	July 7	108	29	32	22
Milk-cooler	G. S. Frazey	313,309	Mar. 3	396	98	30	849
Milk-cooling can	J. Wilhelm, Jr.	321,774	July 7	497	131	32	93
Milk. Device for aerating.	J. D. Patterson	323,069	July 28	2266	599	32	439
Milk or coffee flask	A. Abrahamson	325,606	Sept. 8	798	201	32	1169
Milk or cream can.	G. W. Evans	323,864	Aug. 4	614	174	32	640
Milk-pan and curd or cheese mold. Combined	S. J. Neeseel	324,148	Aug. 11	999	275	32	716
Milk. Preservative for.	S. Sanborn	327,023	Sept. 29	2442		32	1491
Milk-setting apparatus.	M. O. Stoddard	315,448	Apr. 7	639	165	31	114
Milk with cocoa. Condensed peptonized	W. H. Thew	324,049	Aug. 11	868		32	691
Milk with coffee. Condensed peptonized	W. H. Thew	324,050	Aug. 11	868		32	691
Milking apparatus. Cow.	J. P. Martin	331,513	Dec. 1	363	98	33	1063
Milking cows. Device for.	G. S. Frazey	312,834	Feb. 24	1877	514	30	720
Mill:							
See Attrition-mill.	Grist-mill.						
Bark-mill.	Hominy-mill.						
Cane-mill.	Oatmeal and grain reduction mill.						
Cider-mill.	Ore-grinding mill.						
Cleaning, hulling, and grinding mill.	Ore-pulverizing and amalgamating mill.						
Coffee-mill.	Paint-mill.						
Coffee and spice-mill.	Pumping-mill.						
Corn-hulling mill.	Quartz-mill.						
Crushing-mill.	Reduction-mill.						
Crushing and grinding mill.	Roller-mill.						
Crushing and pulverizing mill.	Rolling-mill.						
Fanning-mill.	Saw-mill.						
Feed-mill.	Smut-mill.						
Grain-cleaning mill.	Stamp-mill.						
Grain-hulling mill.	Triturating-mill.						
Grinding-mill.	Windmill.						
Mill-feed regulator	H. R. Deeler	322,164	July 14	1034	268	32	196
Mill for grinding or pressing coffee, spices, &c.	O. Unger	310,336	Jan. 6	242	66	30	46
Mill-machinery feeder.	R. M. Nake	320,811	June 23	2527	670	31	1534
Mill-stock feeder	G. Cottrell	322,788	Sept. 8	772	193	32	1164
Mill-stock feeder	G. Cottrell	322,364	Oct. 27	2528	651	33	421
Mill-stock feeder	G. Downie and A. F. Eisan	320,054	June 16	1487	392	31	1335
Mill-stock feeder	G. Downie and A. F. Eisan	325,327	Sept. 1	129	36	32	1039
Mills, &c. Feeding mechanism for.	P. Fuchs	320,867	June 23	2599	689	31	1548
Milling-cutter.	C. H. Polsey and A. A. Smith	327,107	Sept. 29	2562	668	32	1511
Milling-machine.	A. T. Gifford	330,391	Nov. 17	1307	347	33	770
Milling-machine.	C. C. Newton	319,302	June 2	446	120	31	1132
Milling-machine	F. A. Pratt	323,202	July 28	2448	649	32	469
Milling-machine. Automatic.	E. Horton	316,786	Apr. 28	2498	652	31	472
Milling-machine. Compound.	C. E. Hadley	330,581	Nov. 17	1543	413	33	815
Milling machine. Drill.	M. C. Johnson	324,845	Aug. 25	1973	542	32	912
Milling-machine. Portable.	D. Mills	325,559	Sept. 1	461	115	32	1104
Milling-spout for conducting granular pulverized material.	H. Crow	321,888	July 7	659	171	32	120
Millstone-dress	A. S. Baker	330,865	Nov. 17	1646	442	33	836
Millstone-dress	J. R. Price	314,977	Mar. 31	2644	699	30	1316
Millstone-dress	R. Wilson	319,652	June 9	927	245	31	1227
Millstone-dressing device.	E. W. Lockwood	324,392	Aug. 18	1347	366	32	789
Millstone-dressing machine	I. B. Baker	314,776	Mar. 31	2370	627	30	1269
Millstone-driver	J. E. Jones	327,444	Sept. 29	3001	784	32	1589
Millstone-pick	J. Granger	313,725	Mar. 10	930	241	30	960
Millstone-pick handle	H. P. Dickson	311,476	Feb. 3	21	6	30	352
Mine-ventilator	T. Wilson, Jr.	325,034	Aug. 25	2923	610	32	959
Miner's knife	G. Freund	313,414	Mar. 3	592	137	30	875
Miners' needles. Machine for making	H. C. Burk	328,107	Oct. 13	785	205	33	149
Mines. Case for submarine.	J. P. Gibbins	330,227	Nov. 10	1077	224	33	718

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &	Vol.	Page.
Mines. Testing and firing apparatus for submarine.	J. P. Gibbins	330,296	Nov. 10	1076	283	33	718
Mining-drill	J. F. Mathey	328,397	Oct. 13	1056	273	33	200
Mining-machine	T. E. Knauss	323,940	Aug. 11	723	202	32	666
Mining-machine	W. L. Saunders	320,294	June 16	1814	481	31	1392
Mining-machine	B. Yoch	318,337	May 19	1888	508	31	867
Mining-machine. Coal.	B. F. Asper	329,526	Nov. 3	142	36, 37	33	532
Mining-machine. Coal.	J. W. Harrison	321,103	June 30	2929	776	31	1613
Mining-machine feeding mechanism	W. L. Saunders	320,296	June 16	1816	482	31	1393
Mining-pit	M. Golding	321,714	July 7	407	108	32	76
Mining the beds of rivers and streams. Apparatus for.	J. R. Moffitt	327,707	Oct. 6	271	69	33	48
Mining-tool	J. J. Lloyd	323,472	Dec. 29	3185	631	33	1691
Mineral separator and amalgamator	A. G. Beebe	325,810	Sept. 8	903	202	32	1170
Mineral wool. Apparatus for manufacturing.	H. Kennedy and J. W. Higgs	328,227	Oct. 13	933	243	33	177
Mineral wool. Manufacture of	H. Kennedy and J. W. Higgs	328,226	Oct. 13	931	242	33	177
Minute wheel and pinion.	C. V. Woerd	318,675	May 26	2338	624	31	978
Mirror. Adjustable	S. K. Abbott	314,771	Mar. 31	2361	625	30	1267
Mirror. Adjustable	T. F. Lynch	312,568	Feb. 17	1525	416	30	648
Mirror-bracket. Adjustable.	J. J. Langdon	325,419	Sept. 1	272	67	32	1067
Mirror. Decorated	H. S. Utley and H. S. Bowen	323,423	Dec. 29	3129		33	1522
Mirror. Folding.	P. Wiederer	328,742	Oct. 20	1632	425	33	312
Mirror. Hand.	A. C. Estabrook	323,649	Aug. 4	350	100	32	588
Mirror. Hand.	P. Wiederer	328,739	Oct. 20	1628	424	33	311
Mirror. Hand.	P. Wiederer	328,740	Oct. 20	1630	424	33	311
Mirror. Hand.	P. Wiederer	328,741	Oct. 20	1630	425	33	312
Mirror-pivot. Spring-friction	O. P. Brethout	325,493	Sept. 1	371	91	32	1066
Mirror-stand	C. Zornow	312,062	Feb. 10	812	221	30	507
Mirror. Toilet.	F. J. Kaldenberg	310,950	Jan. 20	1026	278	30	202
Mirror. Window	S. L. F. Melohn	323,191	July 28	2434	645	32	467
Miter-box	T. E. Garsuch and T. Jones	318,464	May 26	2051	554	31	927
Miter-sawing machine	L. D. Howard	314,843	Mar. 31	2454	648	30	1284
Mitt	A. B. Clarke	317,511	May 12	797	204	31	675
Mitten	A. G. Marsh	319,987	June 16	1399	367	31	1319
Mitten	A. B. Perlinsky	312,653	Feb. 24	1630	449	30	677
Mittens and gloves. Manufacture of felted	D. Beatty	323,101	Dec. 29	2677	702	33	1504
Mixer:							
See Cream, egg, and Gas-mixer.							
liquor mixer. Paint-mixer.							
Mixer and sifter. Combined	D. Peters	319,311	June 9	461	124	31	1135
Mixing, diffusing, leaching, and concentrating apparatus.	C. Hornbostel	328,585	Oct. 20	1412	368	33	272
Mixing, measuring, and packaging powdered material. Apparatus for	J. C. Brown	319,672	June 9	947	251	31	1222
Mixing white lead with oil.	W. H. Pulsifer	320,897	June 23	9629	252	31	1553
Model or dummy for dress-maker's use. Adjustable	E. and A. Merle	317,830	May 12	1211	320	31	753
Moistening-roller	D. A. Alden	321,075	June 30	2691	709	31	1607
Molasses-cooler	W. Chrysler	327,067	Sept. 29	2500	653	32	1501
Mold:							
See Boot or shoe heel Ice-cream and pudding mold.							
Brick-machine Ingot-mold.							
Cast-mold. Metal mold.							
Cigar-mold. Sad-iron mold.							
Cigar-bunch mold. Sand mold.							
Collar-mold. Solder-mold.							
Type-mold.							
Mold	H. A. Newcomb	316,052	Apr. 21	1486	388	31	222
Mold for cored objects of plastic material	T. F. Lemassena	326,878	Sept. 22	2250	586	32	1449
Molds. Apparatus for making sand	M. R. Moore	318,783	May 26	2466	665	31	1004
Molds. Composition of matter for lining and facing.	W. N. Gartsdale	315,402	Apr. 7	575		31	104
Molders' facings. Compound for	S. Obermayer	317,843	May 12	1223		31	755
Molder's flask	E. Friess	314,927	Mar. 31	2571	680	30	1304
Molder's flask	H. H. Garrett	313,315	Mar. 3	403	100	30	850
Molder's flask	H. H. Garrett	327,252	Sept. 29	2750	713	32	1546
Molding	E. Fillmann	320,644	June 23	2325	614	31	1494
Molding as an article of manufacture. Interlocking spiral	M. Y. Ransom	326,399	Sept. 15	1492	329	32	1305
Molding-clamp	C. A. Phelps and W. W. Sterne	332,942	Dec. 22	2445	647	33	1458
Molding-machine	W. S. Garrison	321,050	Nov. 24	2142	581	33	936
Molding-machine	J. A. Horton	319,413	June 2	582	158	31	1150
Molding-machine for making molds in sand	A. Rice	322,203	July 14	1081	281	32	206
Molding machine. Sand.	W. Aiken	318,341	May 19	1893	510	31	888
Molding machine. Sand.	A. Rice	322,202	July 14	1079	511	32	205
Molding machine. Sand.	A. Rice	322,203	Dec. 22	2292	604	33	1428
Molding machine. Sand.	C. Schlickeysen and E. Brealauer	331,553	Dec. 1	420	112	33	1074
Molding machine. Sand.	P. C. Smith	322,962	Dec. 22	2473	655	33	1462
Molding machine. Wood	H. Baxter and A. F. Anton	315,222	Apr. 7	346	84	31	62
Molding machines. Pattern-box for sand.	M. R. Moore	321,200	Nov. 24	2375	643	33	978
Molding machines. Safety-guard and work-holder for edge.	G. Jamieson	221,728	July 7	422	112	32	79
Molding or embossing plastic material. Machine for.	H. McHugh and T. L. Manchester	324,399	Aug. 18	1358	369	32	791
Molding plastic materials. Machine for	H. McHugh and T. L. Manchester	318,010	May 19	1460	390	31	608
Molding the sections of conduits for underground conductors. Apparatus for	J. R. Burdick	322,047	Dec. 8	1188	311	33	1219
Molding. Wooden-surfaced	L. R. Harsha	314,833	Mar. 31	2442	645	30	1269
Moldings. Device for securing	C. Halstrom	310,678	Jan. 13	664	182	30	132

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drig.	Vol.	Page.
Moldings. Ornamental roller-die for	P. Rouhl	322,339	Oct. 13	1076	280	33	204
Mole-trap	E. Bills	332,133	Dec. 8	1322	343	33	1242
Mole-trap	W. R. Eddington	331,453	Dec. 1	322	87	33	1055
Mole-trap	J. F. Maxson	326,766	Sept. 22	2092	543	32	1420
Mole-trap	D. H. Payne	321,524	July 7	163	44	32	32
Money-changer	A. L. Pratt	315,544	Apr. 14	799	211	31	149
Money-drawer register	W. G. Hennings	326,114	Sept. 15	1184	303	32	1248
Money receiving, registering, recording, and ticket-issuing device.	H. T. Davis	321,010	June 30	2709	744	31	1591
Monocycle	F. E. Mills	312,147	Feb. 10	938	255	30	530
Monument	B. Goodman	321,018	June 30	2209	747	31	1593
Monument	A. Harrom	314,019	Mar. 17	1341	349	30	1043
Monument	A. McKellar	320,478	June 23	2118	558	31	1456
Mop-cloth	E. F. Wilson	333,372	Dec. 29	3052	796	33	1569
Mop. Floor	G. A. Keane	331,641	Dec. 1	601	148	33	1103
Mop-head	D. McLellan	325,261	Sept. 1	40	12	32	1023
Mop-wringer	A. M. Burnham	326,698	Sept. 22	2223	596	32	1454
Mop-wringer	W. Gavin	325,528	Sept. 1	424	105	32	1097
Mop-wringer	J. F. Walter	323,778	Aug. 4	491	138	32	615
Mordant	M. Conrad	328,464	Oct. 20	1253	33	244	
Mordant	O. Prinz	320,963	June 30	2736	31	1579	
Mordant	R. Silberberg	320,821	June 23	2539	31	1536	
Mordant. Chromium	R. Silberberg	319,032	June 2	121	31	1070	
Morse register	E. Etienne	314,525	Mar. 24	2013	536	30	1176
Mortar, concrete, &c. Apparatus for mixing.	C. Schlickeysen	316,069	Apr. 21	1509	394	31	286
Mortar. Implement for mixing and working	W. C. Nye	324,336	Aug. 11	1272	345	32	767
Mortar-pestles. Device for actuating	S. L. Hockert	311,580	Feb. 3	163	46	30	379
Mortise-cutter	S. G. Randall	321,853	July 7	620	159	32	113
Mortise-lock	G. B. Cowles	323,564	Aug. 4	239	70	32	566
Mortise-lock	F. A. Hollenbeck	317,941	May 12	1351	363	31	780
Mortise-lock	F. W. Mix	320,155	June 16	1022	432	31	1358
Mortise-lock	P. Murphy	321,380	June 30	3269	873	31	1678
Mortise-lock	L. Tighe	322,505	July 21	1490	391	32	287
Mortise-lock	G. Voll	332,249	Dec. 22	2316	613	33	1432
Mortises. Tool for removing chips from	G. Winsenried	320,736	June 21	2437	646	31	1517
Mortising and boring machine	E. N. Camp	317,721	May 12	1056	275	31	724
Mortising-machine	J. Oppenheimer. (Reissue)	10,655	Oct. 27	2626	478	33	499
Mortising-machine. Chain	T. E. Daniels	313,924	Mar. 17	1226	318	30	1020
Mortising machine. Door	F. W. Stevens	312,669	Feb. 24	1652	456	30	681
Mosaic of glass and lead glazing	H. F. Belcher	317,077	May 5	193	49	31	558
Mosquito-bar canopy	J. P. Smith	318,667	May 26	2328	622	31	976
Mosquito-bar canopy	C. Snow	323,227	July 28	2420	650	32	475
Mosquito-bars. Adjustable fastener for	J. Spurrier	313,116	Mar. 3	102	26	30	795
Mosquito-canopies. Suspension device for	I. E. Palmer	322,066	July 14	903	233	32	172
Moth trap and tree-protector. Coddling	G. W. Thissell	332,265	Dec. 29	2913	762	33	1545
Motion. Apparatus for transmitting differential rotary	G. F. Clemons	321,086	June 30	2905	772	31	1609
Motion between axes. Coupling to communicate rotary	D. R. Cameron	321,579	July 7	233	62	32	45
Motion. Converting reciprocating into rotary	H. H. Barnard	311,407	Jan. 27	1680	458	30	330
Motion. Device for converting	W. H. Atkinson	310,169	Jan. 6	11	3	30	5
Motion. Device for converting	R. Campbell	322,679	July 21	1705	452	32	327
Motion. Device for converting	T. C. Fleming	322,815	July 21	1824	506	32	359
Motion. Device for converting	H. B. Kelper	316,789	Apr. 28	2507	635	31	474
Motion. Device for converting	H. C. Kring	321,371	June 30	3258	870	31	1676
Motion. Device for converting	S. C. Mortimer	329,761	Nov. 3	454	114	33	590
Motion. Device for converting	J. C. Potts	326,777	Sept. 22	2107	517	32	1423
Motion. Device for converting	F. H. Richards	333,333	Dec. 29	3003	766	33	1562
Motion. Device for converting	G. W. Richardson	333,161	Dec. 29	2764	724	33	1518
Motion. Device for converting	H. Schulze-Berge	311,610	Feb. 3	201	57	30	386
Motion. Device for converting	J. Stubbe	317,584	May 12	883	226	31	691
Motion. Device for converting	C. H. Tuckwood	312,773	Feb. 24	1791	494	30	706
Motion. Device for converting	W. G. Dawson	323,546	Aug. 4	217	64	32	562
Motion. Device for converting reciprocating into rotary	J. T. Pedersen	320,338	June 16	1893	498	31	1406
Motion. Device for transmitting	S. Jönsson	311,255	Jan. 27	1462	400	30	290
Motion. Machine for producing rectilinear reciprocating	J. M. Furlong	320,437	June 16	2046	537	31	1434
Motion. Machinery for transmitting	J. S. Bancroft	332,708	Dec. 22	2140	565	33	1398
Motion. Mechanism for converting	O. B. Howe	323,019	July 28	2189	580	32	421
Motion. Mechanism for converting	H. C. Lowrie	333,226	Dec. 29	2857	746	33	1534
Motion. Mechanism for converting	J. E. Pencille	324,132	Aug. 11	980	270	32	713
Motion. Mechanism for converting	S. C. Rhodes	312,378	Feb. 17	1258	347	30	598
Motion. Mechanism for converting	D. D., G. L., and C. W. Wiley	330,692	Nov. 17	1593	426	33	825
Motion. Mechanism for converting rotary into reciprocating	A. Lewis	315,364	Apr. 7	521	133	31	94
Motion. Mechanism for reversing rotary	A. J. Knieser	330,596	Nov. 17	1559	418	33	818
Motion. Mechanism for transmitting	G. Lieb	329,318	Oct. 27	2450	634	33	468
Motion. Transmitting	H. Wright	324,709	Aug. 18	1781	492	32	869
Motions of two or more bodies may be varied in any required manner independently of their actual motions. Apparatus whereby the relative	H. S. H. Shaw	332,692	Dec. 15	2104	555	33	1386
Motive power	W. A. Brown	312,171	Feb. 10	974	266	30	536
Motive power by aid of air and hydrocarbon oils. Apparatus for manufacturing, using, and furnishing	I. James	332,231	Dec. 15	1454	378	33	1272
Motive power. Marine	F. Luchini	326,430	Sept. 15	1615	420	32	1328
		324,266	Aug. 1	1178	318	32	749

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Motor:							
See Air-motor.	Railway-motor.						
Car-motor.	Reciprocating motor.						
Churn-motor.	Rotary motor.						
Current-motor.	Sewing-machine hand-						
Electric motor.	motor.						
Electro-dynamic mo-	Sewing-machine or other						
tor.	motor.						
Electro-magnetic	Siphon-motor.						
motor.	Spring-motor.						
Escapement-motor.	Steam-motor.						
Gas-motor.	Thermic motor.						
Horse-power motor.	Velocipede-motor.						
Hydraulic motor.	Water-motor.						
Mechanical motor.	Weight-motor.						
Pneumatic motor.	Wind-motor.						
Motor.....	W. J. Allen.....	313,641	Mar. 10	818	214	30	939
Motor.....	E. B. Benham and H. B. Richardson.	323,258	July 28	9517	668	32	482
Motor.....	J. Barry.....	331,048	Dec. 8	1194	312	33	1220
Motor.....	T. L. Chisholm.....	325,318	Sept. 1	118	34	32	1037
Motor.....	J. W. Cloud and A. Vogt.....	322,794	July 21	1256	493	32	354
Motor.....	T. Dodds.....	313,188	Mar. 3	226	56	30	818
Motor.....	G. S. Elliott.....	329,295	Oct. 27	2418	627	33	462
Motor.....	J. H. Forister.....	312,980	Feb. 24	2074	565	30	755
Motor.....	J. M. Gaston.....	319,970	June 16	1374	361	31	1314
Motor.....	M. F. Graham and O. E. North.....	332,249	Dec. 15	1481	357	33	1277
Motor.....	T. K. Hansberry.....	316,542	Apr. 28	2152	566	31	400
Motor.....	A. F. Harrell.....	232,517	Dec. 15	1848	453	33	1340
Motor.....	T. W. Hogsett.....	328,678	Oct. 20	1519	403	33	276
Motor.....	H. R. Horton.....	326,117	Sept. 15	1188	304	32	1246
Motor.....	J. E. Johnson.....	317,542	May 12	1229	213	31	681
Motor.....	C. Klein.....	328,318	Oct. 13	1044	270	33	197
Motor.....	A. Marck.....	323,943	Aug. 11	726	203	32	667
Motor.....	C. W. McGregor and L. H. Cordry.....	313,222	Mar. 3	265	67	30	225
Motor.....	D. L. Miller.....	315,051	Apr. 7	89	21	31	12
Motor.....	G. A. Myers.....	328,661	Oct. 27	1976	505	33	374
Motor.....	J. P. Parkhurst.....	320,166	June 16	1634	435	31	1361
Motor.....	J. Sullivan.....	319,527	June 9	756	202	31	1197
Motor.....	H. W. Teal.....	317,644	May 5	145	37	31	548
Motor.....	J. A. Vieau.....	312,307	Feb. 17	1167	319	30	521
Motor.....	G. C. Wickizer.....	328,830	Oct. 20	1733	451	33	332
Motor for sewing and other machines.	G. F. Stone.....	331,200	Nov. 24	2456	663	33	991
Motor-pressure generator.	O. Gassett.....	324,828	Aug. 25	1951	535	32	908
Motor-wheel. Reversible.	C. Esgood.....	332,163	Dec. 8	1275	331	33	1234
Mouse-cage.	C. Schantz.....	321,643	July 7	314	83	33	60
Movement-cure apparatus.	M. G. Farmer.....	310,395	Jan. 6	310	86	30	60
Movement-cure apparatus.	M. G. Farmer.....	317,328	May 5	548	139	31	623
Movement-cure apparatus.	H. Main.....	323,701	Aug. 4	416	119	32	601
Movement-indicator.	H. T. Field.....	310,860	Jan. 13	880	241	30	174
Mower.....	I. Rawson.....	315,071	Apr. 7	18	27	31	23
Mower.....	W. S. Halsey.....	326,643	Sept. 22	1892	498	32	1385
Mower.....	B. Saunders.....	331,141	June 30	2971	787	31	1621
Mower and reaper cutting apparatus.	L. Rundell.....	323,599	Aug. 4	226	82	32	575
Mower and reaper knives. Machine for sharpening.	J. M. Connel.....	325,159	Aug. 25	2378	635	32	982
Mower. Field and lawn.	L. S. Brown.....	318,692	May 26	2261	630	31	982
Mower. Lawn.	D. Arndt.....	324,374	Oct. 13	1130	291	33	214
Mower. Lawn.	S. J. Baker.....	327,987	Oct. 13	626	165	33	120
Mower. Lawn.	D. Bearly.....	314,988	Apr. 7	2	1	31	3
Mower. Lawn.....	H. H. Dille and E. W. McGuire.....	323,225	July 28	2554	680	32	429
Mower. Lawn.	P. Hinkley.....	328,310	Oct. 13	1035	288	33	196
Mower. Lawn.	J. Keller.....	330,714	Nov. 17	1711	462	33	849
Mower. Lawn.....	W. A. Loud.....	319,827	June 9	1167	308	31	1271
Mower. Lawn.	T. Rogers.....	328,145	Oct. 13	828	216	33	157
Mowers and reapers. Cutting apparatus for.	J. M. L. Gore.....	329,641	Nov. 3	220	74	33	560
Mowers and reapers. Endless-chain sickle for.	S. S. Turner.....	323,609	Aug. 4	297	85	32	577
Mowing and reaping machines. Driving-gear for.	A. C. Latta.....	311,132	Jan. 20	1284	353	30	251
Mowing-machine.	C. C. Bradley.....	329,709	Nov. 3	322	97	33	578
Mowing-machine.	E. H. Heath and F. W. Moore.....	328,028	Oct. 13	617	178	33	130
Mowing-machine.	W. Hill.....	330,116	Nov. 10	940	245	33	691
Mowing-machine.	J. H. Jones.....	311,006	Jan. 20	1102	301	30	218
Mowing-machine.	W. A. Knowlton.....	314,186	Mar. 17	1556	408	30	1082
Mowing-machine.	J. P. Manny.....	317,916	May 12	1180	316	31	749
Mowing-machine.	D. C. Markham.....	325,949	Sept. 8	966	246	32	1201
Mowing-machine.	E. Pridmore.....	314,541	Mar. 24	2033	542	30	1179
Mowing-machine.	F. M. Waters.....	316,856	Apr. 28	2604	679	31	492
Mowing-machine corn-cutting attachment.	J. A. Forbes.....	328,770	Oct. 20	1657	432	34	317
Mowing-machine finger-bar and finger.	D. C. Markham.....	332,671	Dec. 15	2079	546	33	1361
Mowing-machine. Lawn.	F. M. Waters.....	333,1-1	Dec. 29	2792	731	33	1523
Mowing-machine pitman.	D. C. Markham.....	311,996	Feb. 10	725	179	30	470
Mowing-machines. Bell-crank for.	D. C. Markham.....	325,950	Sept. 8	968	246	32	1202
Muffle-furnace for assaying and annealing.	J. Hoskins.....	315,036	Apr. 7	69	16	31	14
Muffler and safety-valve.	J. M. Coale.....	315,732	Apr. 14	1052	275	31	197
Multiple switch-board.	T. J. Perrin.....	315,332	Apr. 7	476	120	31	87
Multiple switch-board.	T. J. Perrin.....	315,333	Apr. 7	477	121	31	87
Multiple switch-board.	T. J. Perrin.....	315,658	Apr. 14	945	247	31	176
Multiple switch-board.	T. J. Perrin.....	316,394	Apr. 21	1943	512	31	364
Multiple switch-board.	T. J. Perrin.....	316,395	Apr. 21	1946	513	31	364

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Multiple switch-board.....	C. E. Scribner.....	330,061	Nov. 10	862	222	33	675
Multiple switch-board.....	C. E. Scribner.....	330,062	Nov. 10	864	223	33	676
Multiple switch-board system.....	C. E. Scribner.....	321,057	June 30	2850	761	31	1601
Multiple switch-board testing apparatus.....	C. E. Scribner.....	330,059	Nov. 10	859	222	33	675
Multiple switch-boards. Operator's testing apparatus for.....	C. E. Scribner.....	330,060	Nov. 10	861	222	33	675
Multiplication of numbers. Apparatus for facilitating the.....	J. V. Charpentier.....	322,160	July 14	1027	267	32	195
Muscle-beater.....	J. E. Ruebsam.....	323,447	Aug. 4	83	24	32	538
Music and book rack or holder.....	B. Druber.....	332,647	Dec. 15	2041	535	33	1375
Music. Back for sheet.....	G. C. Scott.....	331,555	Dec. 1	423	113	33	1074
Music-barrels. Machine for inserting pins in.....	H. B. Morris.....	315,052	Apr. 7	91	22	31	18
Music, books, &c. Device for holding.....	G. H. Northrop.....	312,153	Feb. 10	946	257	30	532
Music-box.....	J. A. Bradshaw.....	310,645	Jan. 13	619	171	30	124
Music-box safety-check.....	C. H. Jacot.....	326,743	Sept. 22	2060	536	32	1415
Music case or portfolio.....	J. R. France, J. H. Yale, and G. W. Beury.....	319,389	June 2	564	153	31	1155
Music-holder.....	J. Frampton.....	316,534	Apr. 28	2144	563	31	407
Music holder. Sheet.....	G. C. Scott.....	331,554	Dec. 1	422	113	33	1074
Music-leaf turner.....	C. Anderson and S. Wilhelm.....	332,570	Dec. 15	1847	510	33	1357
Music-leaf turner.....	G. G. Benjamin.....	321,570	July 7	224	60	32	44
Music-leaf turner.....	J. M. Branig.....	311,950	Feb. 10	661	181	30	479
Music-leaf turner.....	E. G. Hastings.....	310,199	Jan. 6	53	15	30	13
Music-leaf turner.....	T. H. Hathaway.....	321,569	July 7	242	66	32	50
Music-leaf turner.....	G. H. Lindeman.....	327,698	Oct. 6	223	66	33	46
Music-leaf turner.....	R. E. and G. W. Moorman.....	330,413	Nov. 17	1335	355	33	775
Music-leaf turner.....	E. Negroni.....	321,238	June 30	3091	621	31	1043
Music-leaf turner.....	F. E. Sackett.....	318,509	May 26	2111	569	31	938
Music-leaf turner.....	J. H. Shelton.....	318,398	May 19	1908	530	31	902
Music-leaf turner.....	H. D. Wheatley.....	318,529	May 26	2143	577	31	944
Music-leaf turner.....	L. E. Williams and F. J. Millea.....	331,930	Dec. 8	1020	265	33	1120
Music-paper for automatic musical instruments. Machine for cutting.....	R. T. Smith.....	318,049	May 19	1511	405	31	817
Music-rack and walking-cane combined.....	O. B. Pierce.....	330,922	Nov. 24	1988	537	33	907
Music rack or holder.....	E. Tucker.....	312,040	Feb. 10	724	214	30	502
Music-recording attachment for key-board instruments.....	B. Greiner.....	321,358	June 30	3241	664	31	1673
Music. Sheet.....	W. Shaw.....	322,013	July 14	827	216	32	159
Music-sheet for mechanical musical instruments.....	P. Ehrlich.....	310,501	Jan. 6	430	118	30	83
Music-sheets for mechanical musical instruments. Machine for perforating.....	J. Maxfield.....	330,913	Nov. 24	1976	534	33	904
Music-sheets to rollers. Device for attaching.....	H. Thomas.....	327,028	Sept. 29	2465	644	32	1495
Music-stand. Folding.....	J. Newton.....	331,811	Dec. 8	833	212	33	1154
Music-stand. Folding.....	F. P. Pfeighar.....	329,593	Nov. 3	231	60	33	549
Musical instrument. Automatic.....	J. McTammany.....	328,503	Oct. 20	1299	338	33	253
Musical-instrument key-board.....	W. T. Weir.....	327,028	Oct. 6	171	42	33	31
Musical instrument. Mechanical.....	J. H. Chase.....	318,448	May 26	2030	547	31	922
Musical instrument. Mechanical.....	C. Donadoni.....	310,498	Jan. 6	427	118	30	82
Musical instrument. Mechanical.....	M. Gally.....	314,012	Mar. 17	1331	347	33	1041
Musical instrument. Mechanical.....	M. Gally.....	329,304	Oct. 27	2429	630	33	464
Musical instrument. Mechanical.....	M. Gally.....	331,747	Dec. 1	753	190	33	1132
Musical instrument. Mechanical.....	G. B. Hukins.....	315,774	Apr. 14	1113	292	31	209
Musical instrument. Mechanical.....	M. Hock.....	312,636	Feb. 24	1610	442	30	673
Musical instrument. Mechanical.....	J. McTammany.....	321,738	July 7	435	116	32	81
Musical instrument. Mechanical.....	T. Meinhold.....	329,473	Nov. 3	66	18	33	517
Musical instrument. Mechanical.....	R. W. Pain.....	322,554	July 21	1543	408	32	297
Musical instrument. Mechanical.....	L. T. Stanley.....	322,566	July 21	1567	413	32	290
Musical instrument. Mechanical.....	F. Stone.....	326,172	Sept. 15	1268	326	32	1263
Musical instrument. Mechanical.....	M. A. Wier.....	329,419	Oct. 27	2612	474	31	496
Musical instrument. Mechanical.....	M. A. Wier.....	329,420	Oct. 27	2613	475	31	496
Musical instrument. Stringed.....	J. Farris.....	315,135	Apr. 7	194	48	31	35
Musical instruments. Barrel for mechanical.....	H. B. Morris.....	322,390	July 14	1318	343	32	250
Musical instruments. Harmonic attachment for key-board.....	J. W. Long.....	320,148	June 16	1614	430	31	1357
Musical instruments. Harmonic attachment for key-board.....	E. F. O'Neill.....	316,908	Apr. 28	2681	698	31	506
Musical instruments. Head of stringed.....	A. Hyde.....	310,590	Jan. 13	556	155	30	112
Musical instruments. Key-board attachment for.....	R. H. Bishop and W. Down.....	311,947	Feb. 10	654	179	30	477
Musical instruments. Key-board attachment for.....	W. R. Eddington.....	326,412	Sept. 15	1591	414	32	1324
Musical instruments. Key-board attachment for.....	C. F. Meyerling.....	326,444	Sept. 15	1631	427	32	1331
Musical instruments. Mouth-piece for brass.....	C. Meister.....	315,810	Apr. 14	1156	303	31	217
Musical instruments. Transposer for key-board.....	L. Metzdorff.....	317,661	May 12	992	254	31	710
Musical reed.....	C. E. Bramhall.....	321,882	July 7	653	169	32	119
Musical reed.....	M. Bray.....	318,947	June 2	13	4	31	1051
Musical reed.....	M. Gally.....	315,493	Apr. 14	715	189	31	134
Musical scales. Device for illustrating the transposition of.....	J. F. Neill.....	323,196	July 28	2439	646	32	468
Musician's exercising device.....	J. Brotherhood.....	327,918	Oct. 6	534	139	33	96
Musician's exercising device.....	A. P. Schenman.....	332,220	Dec. 15	1335	402	33	1286
Musket-rack. Portable.....	G. Wunderlick.....	321,930	July 7	715	186	32	129
Mustache-protector.....	L. B. France.....	323,002	Aug. 4	540	154	32	625
Muzzle. Animal.....	F. M. Moore.....	310,842	Jan. 13	870	235	30	170
Muzzle for cattle.....	P. Prioleau, Jr.....	322,199	July 14	1076	279	32	204
Nail:							
See Boot or shoe nail. Screw-nail.							
Horseshoe-nail. Shoe-nail.							
Nail.....	H. K. Jones.....	318,566	May 26	2205	589	31	952
Nail.....	J. M. Overell.....	313,681	Mar. 10	867	226	30	949

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Nail	E. K. Page	325,859	Sept. 8	863	217	32 1187
Nail	W. H. Perry	328,515	Oct. 20	1311	341	32 235
Nail	J. Young	316,717	Apr. 28	2404	626	31 435
Nail and ear cleaner. Combined	W. A. Bernard	324,001	Aug. 11	799	222	32 680
Nail and screw. Combined	H. A. Schirmer	321,389	June 30	3222	877	31 1680
Nail-arranger	S. Perry	317,568	May 12	859	221	31 687
Nail-cleaner	T. F. Curley	331,869	Dec. 8	925	238	33 1171
Nail-drawer	G. L. Donovan	332,588	Dec. 15	1872	516	33 1382
Nail-driver	S. Perry	317,189	May 5	354	89, 90	31 588
Nail-driving machine	T. E. Smith	323,081	July 28	2279	603	32 428
Nail-extractor	T. M. Brintnall	331,678	Dec. 1	650	192	33 1114
Nail-extractor	D. Corning and R. J. Stackhouse	328,655	Oct. 20	1520	395	31 291
Nail-extractor	J. M. Herndon	326,640	Sept. 22	1900	500	32 1387
Nail-extractor	J. M. Herndon	326,650	Sept. 22	1901	500	32 1387
Nail-extractor	L. Howard	321,298	June 30	3165	844	31 1658
Nail-extractor	P. F. King	313,529	Mar. 10	768	202	30 928
Nail-extractor	I. H. Kizer	332,909	Dec. 22	2405	635	33 1449
Nail-feeding apparatus	S. Perry	332,896	Dec. 22	2281	601	33 1427
Nail. Flat-wire	C. W. Dean	332,702	Dec. 22	2132	562	33 1397
Nail holder and carrier	F. F. Raymond, 2d	315,458	Apr. 7	657	169	31 117
Nail-machine	L. Bradford, 2d	323,103	Dec. 29	2683	704	33 1504
Nail-machine	M. B. Brown	322,413	July 21	1351	352	33 983
Nail-machine	J. S. Dickson	332,062	Dec. 8	1907	315	33 1223
Nail-machine	B. H. Gedge and H. Meyerer	325,670	Sept. 8	604	153	32 1134
Nail-machine	F. A. Gleason	327,544	Oct. 6	55	13	33 11
Nail-machine	W. J. Hutchins	312,996	Feb. 24	2081	567	30 756
Nail-machine	J. McIlvried	331,928	Dec. 8	1101	226	33 1204
Nail-machine	P. C. Reed	313,108	Mar. 3	93	94	30 794
Nail-machine nipper-bar	C. D. Godcharles	315,403	Apr. 7	576	148	31 104
Nail machine. Wire	J. S. Follansbee	330,219	Nov. 10	1065	278	33 716
Nail machine. Wire	F. H. Hardman	317,130	May 5	266	60, 67	31 572
Nail machine. Wire	J. Hassall and M. M. Smith	319,485	June 9	702	188	31 1187
Nail machine. Wire	N. C. Lewis	328,236	Oct. 13	943	245	33 179
Nail machine. Wire	N. C. Lewis	328,237	Oct. 13	946	246	33 180
Nail machine. Wire	J. McIlvried	331,997	Dec. 8	1099	285	33 1304
Nail machine. Wire	M. G. Voigt, Sr.	319,150	June 9	264	69, 70	31 1096
Nail-makers. Cold-air blast for the protection of	J. Altmeyer	317,916	May 12	1322	354	31 773
Nail-making machine	C. W. Coggin	317,928	May 12	1337	359	31 777
Nail-making machine	N. King and H. B. Lester	323,417	Dec. 29	3109	810	33 1579
Nail-making machine	F. F. Raymond, 2d	325,272	Sept. 1	52	10, 17	32 1026
Nail-making machine	J. M. Schlitz	327,828	Oct. 6	422	109	33 74
Nail-making machine. Wire	S. Loring and E. S. Morton	314,253	Mar. 24	1641	435	30 1108
Nail or tack. Split	R. S. Pickett	323,200	July 28	2446	648	32 469
Nail-packer	C. D. Godcharles	313,721	Mar. 10	924	240	30 958
Nail-plate	J. Coyne	331,944	Dec. 8	1040	289	33 1194
Nail-plate feeder	J. H. Dunbar	328,822	Oct. 20	1801	468	33 343
Nail-plate feeder	J. C. Gould	315,019	Apr. 7	43	9, 10	31 10
Nail-plate feeder	J. C. Gould	317,529	May 12	813	209	31 679
Nail-plate feeder	D. W. Keith	321,114	June 30	2939	779	31 1614
Nail-plate feeder	G. W. McKim	313,010	Feb. 24	2110	515	30 762
Nail-plate feeder	L. Patterson	322,963	July 28	2110	561	32 407
Nail-plate feeders. Gripping device for	J. C. Gould	329,549	Nov. 3	176	46	33 538
Nail-plate feeders. Nipper-rod for	J. C. Gould	318,105	May 19	1580	423	31 830
Nail-plate-feeding machine	W. J. Gladish	328,399	Oct. 13	1166	301	33 220
Nail-plate-feeding machine	G. W. McKim	324,572	Aug. 18	1582	436	32 632
Nail plates. Preparing steel	B. Lauth	328,590	Oct. 20	1418	467	33 273
Nail-set	G. W. Cannon	317,970	May 19	1406	371	31 798
Nail stock. Wire	H. K. Jones	318,564	May 26	2204	589	31 932
Nail stock. Wire	H. K. Jones	318,565	May 26	2205	589	31 932
Nail-strips. Forming heads on	M. Brock	323,847	Aug. 4	586	168	32 636
Nail-strips. Machine for forming heads on shoe	M. Brock	323,846	Aug. 4	585	167	32 635
Nail-strips. Machine for upsetting heads on	R. Ashe	319,381	June 2	544	148	31 1151
Nails. Machine for making shoe	A. Prestat	326,240	Sept. 15	1368	333	32 1221
Nails. Machine for making wrought	W. Truran	314,894	Mar. 31	2525	669	30 1296
Nails. Machine for pointing wire	S. Loring and E. S. Morton	319,735	June 9	1032	273	31 1247
Nails. Making	C. F. Thayer and J. Lowe	318,830	May 26	2551	679	31 1014
Nails. Making cut	J. Young	318,845	May 26	2573	685	31 1016
Nails. Manufacture of	J. S. Dickson	332,190	Dec. 8	1393	360	33 1254
Nailing implement. Haud	E. L. Taft and H. M. Rich	320,626	Nov. 3	350	89	33 571
Nailing-machine	L. Goddu	310,816	Jan. 13	836	227	30 164
Nailing-machine	L. Goddu	329,449	Nov. 3	27	8	33 510
Nailing-machine	F. F. Raymond, 2d	326,780	Sept. 22	2112	548	32 1424
Nailing-machine	F. F. Raymond, 2d	326,781	Sept. 22	2114	550	32 1424
Napkin pin or holder	A. L. Burlingame	311,640	Feb. 3	240	68	30 394

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Napkin-supporter.....	W. C. Nelson.....	324,039	Aug. 11	855	237	32	689
Napkin-supporter.....	W. B. Silver.....	329,963	Nov. 10	730	186	33	649
Neck and ear protector. Combined.....	I. B. Kleinert.....	322,614	July 21	1627	430	32	311
Neck-wear.....	H. A. Cables.....	314,794	Mar. 31	2394	634	30	1273
Neck-wear.....	E. D. Smith.....	322,207	July 14	1086	282	32	207
Neck-wear.....	E. D. Smith.....	331,566	Dec. 1	448	116	33	1077
Neck-wear. Compound strip for.....	I. Noar.....	320,386	June 16	1979	520	31	1423
Neck-wear fastener.....	A. Burhans.....	317,969	May 19	1404	377	31	798
Neck-wear fastener.....	G. H. Marvin.....	332,922	Dec. 22	2420	640	33	1452
Neck-wear fastener.....	G. H. Marvin.....	332,923	Dec. 22	2420	640	33	1452
Neck-wear retainer.....	L. Eschner.....	310,660	Jan. 13	639	176	30	127
Neck-wear tip.....	J. M. Guilbert.....	326,905	Sept. 22	2291	599	32	1456
Necktie.....	J. H. Haulenbeek and G. F. Brown.....	312,118	Feb. 10	829	242	30	521
Necktie.....	C. E. Page.....	331,535	Dec. 1	397	109	33	1070
Necktie.....	W. S. Spurr.....	316,496	Apr. 28	2098	551	31	398
Necktie and collar fastener.....	R. S. Coffey.....	331,279	Dec. 1	17	5	33	1004
Necktie attachment.....	I. Noar.....	319,840	June 9	1123	312	31	1273
Necktie-band retainer.....	W. G. Alderton.....	318,846	May 26	2574	685	31	1018
Necktie-fastener.....	A. Ciffo.....	313,807	Mar. 10	1046	268	30	989
Necktie-fastener.....	T. J. Ford.....	318,715	May 26	2389	637	31	867
Necktie-fastener.....	F. S. R. Prentiss.....	314,396	Mar. 24	1834	488	30	1145
Necktie-fastener.....	O. J. Teriant.....	331,098	Nov. 24	2210	598	33	949
Necktie-fastener.....	C. A. Turner.....	328,545	Oct. 20	1353	353	33	262
Necktie-fastener.....	J. A. Whitcomb.....	315,097	Apr. 7	150	36	31	29
Necktie-fastening.....	B. F. Hutchins, Jr.....	323,70	Aug. 4	625	176	32	641
Necktie-fastening.....	G. E. Mitchell.....	320,491	June 23	2122	559	31	1457
Necktie-fastening.....	J. S. Ripley.....	310,617	Jan. 13	585	101	30	118
Necktie-fastening.....	J. Weil.....	312,681	Feb. 24	1067	459	30	683
Necktie-fastening device.....	C. S. Lyon.....	318,570	May 26	2209	590	31	833
Necktie-holder.....	E. K. Haynes.....	317,354	May 5	577	148	31	629
Necktie-holder.....	J. H. Riley and J. J. Walsh.....	313,530	Mar. 10	674	176	30	911
Necktie holder and fastener.....	A. G. Mack.....	327,565	Oct. 6	83	18	33	10
Necktie or cravat.....	F. J. Freese and F. C. Baldwin.....	327,542	Oct. 6	54	12	33	10
Necktie pin-fastener.....	W. Fichtenberg.....	327,782	Oct. 6	360	93	33	61
Necktie-protector.....	W. T. Richmond.....	318,504	May 26	2518	672	31	1008
Necktie-retainer.....	J. A. Eshleman.....	323,648	Aug. 4	350	100	32	567
Necktie-supporter.....	B. B. Scully.....	330,743	Nov. 17	1755	472	33	855
Neckties, &c. Fastener for.....	H. A. Cables.....	313,171	Mar. 3	184	45	30	811
Needle.....	T. C. Adams.....	320,450	June 16	2065	542	31	1438
Needle.....	E. and E. Cheshire.....	317,508	May 12	794	203	31	675
Needle.....	E. Kratz.....	324,030	Aug. 11	840	232	32	687
Needle-bars. Mechanism for actuating.....	M. Marcell.....	331,204	Nov. 24	2367	641	33	972
Needle-cases. Manufacture of metallic.....	W. Avery.....	313,797	Mar. 10	1035	286	30	978
Needle-threader.....	W. Day.....	322,296	Oct. 13	1015	264	33	196
Needles. Cabinet for papers of.....	F. Meyers.....	324,717	Aug. 18	1789	494	32	871
Needles, &c. Holder for.....	J. Hölzgens.....	324,557	Aug. 18	1561	431	32	822
Needles, wire, &c. Straightening.....	G. M. Eames.....	331,386	Dec. 1	181	45, 46	33	1031
Nest. Hen's.....	F. M. Brown.....	311,467	Feb. 3	10	3	30	350
Net. Dip.....	W. A. Obenchain.....	323,326	Dec. 29	2295	784	33	1564
Net. Fishing.....	T. S. Brown.....	325,652	Sept. 8	581	147	32	1130
Net. Fishing.....	B. K. Moscopoulos.....	326,139	Sept. 15	1220	311	32	1254
Net. Fly.....	E. G. Studley and P. Doech.....	315,975	Apr. 14	1389	360	31	257
Net for catching porpoises.....	J. A. Cooke.....	317,733	May 12	1069	280	31	796
Net for horses. Fly.....	R. Brownson.....	321,684	July 7	655	170	32	119
Net frame. Mosquito.....	J. Goodwin.....	330,316	Nov. 10	1190	318	33	746
Net frame. Mosquito.....	T. A. Watson.....	325,464	Sept. 1	333	60	32	1079
Net. Landing.....	G. W. McClintock.....	317,820	May 12	1197	317	31	750
Net. Landing.....	C. P. Utley.....	325,287	Sept. 1	78	23	32	1031
Net. Mosquito.....	F. H. Holden.....	312,471	Feb. 17	1391	384	30	622
Net or veil.....	J. A. Schirmer.....	310,575	Apr. 28	2194	577	31	417
Net. Rotary fish.....	B. W. Clark.....	314,563	Mar. 31	2069	553	30	1213
Net-staff.....	G. L. Bailey.....	315,107	Apr. 7	162	39	31	30
Nickel and cobalt from solutions containing the same. Process of precipitating.....	C. H. Aaron.....	330,454	Nov. 17	1369	.....	33	787
Nickel. Electro-depositing.....	J. A. Mathieu.....	320,377	June 16	1969	.....	31	1421
Night-soil, offal, &c. Consuming.....	A. Engle.....	329,302	Oct. 27	2426	629	33	464
Nippers. Cutting.....	P. Broadbooks.....	329,133	Oct. 27	2188	568	33	419
Nippers. Cutting.....	G. L. Donovan.....	332,597	Dec. 15	1072	518	33	1362
Nippers. Policeman's.....	J. M. Mitchell.....	327,575	Oct. 6	15	21	33	18
Nipple-protector.....	C. Ware.....	322,508	July 21	1493	392	32	287
Nitro-cellulose. Manufacture of soluble.....	F. V. Pool. (Reissue).....	10,650	Oct. 6	617	.....	33	112
Non-conducting fabric.....	W. P. Adams.....	332,371	Dec. 15	1631	433	33	1307
Non-resonant material for the construction of buildings, railway-tunnels, railway-carriages, &c.....	R. R. Hazard.....	316,543	Apr. 28	2154	.....	31	409
Nose-ring.....	L. Drals.....	321,889	July 7	679	171	32	120
Nozzle.....	C. Callahan.....	311,720	Feb. 3	335	93	30	412
Nozzle.....	J. E. Prunty.....	318,800	May 26	2512	670	31	1007
Nozzle and faucet.....	R. Marsh.....	320,881	June 23	2616	693	31	1551
Numbering-machine.....	J. W. MacLachlan.....	326,663	Sept. 22	1919	303, 504	32	1390
Numbering-machine.....	E. A. Warren.....	320,103	June 16	1551	410, 411	31	1346
Numbering-machine. Consecutive.....	J. H. Reinhardt and C. S. Ellis.....	318,603	May 26	2515	671	31	1008
Nursery-chair.....	M. M. Gooch.....	326,110	Sept. 15	1179	301	32	1247
Nursery-chair.....	W. Holden.....	331,748	Dec. 1	754	190, 191	33	1132
Nursery-chair.....	T. N. M. Krier.....	327,955	Oct. 6	582	151, 152	33	105
Nursery-chair.....	B. C. Odell.....	313,881	Mar. 17	1158	301	30	1008
Nursery-chair.....	B. C. Odell.....	317,180	May 5	339	86	31	585
Nursery-chair and carriage.....	V. Rathknecht.....	320,587	June 23	2253	596	31	1482
Nut.....	F. G. Stark.....	327,612	Oct. 6	145	35	33	27
Nut-arbor.....	G. B. Foote.....	311,479	Feb. 3	24	7	30	353
Nut-bar.....	J. Gillespie.....	214,329	Mar. 24	1750	466	30	1128

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Nut. Cap-headed screw.....	C. D. Thatcher	322,867	July 21	1966	520	32	373
Nut-cracker.....	E. B. Benham and C. R. Watrous	322,240	July 14	1125	293	32	214
Nut. Frictional lock.....	J. T. Hawkins	318,618	May 24	2263	604	31	763
Nut-guard.....	E. Over	325,762	Sept. 8	737	184	32	1156
Nut-lock.....	J. Bare	333,380	Dec. 29	3060	798	33	1771
Nut-lock.....	N. Bosmann	327,906	Sept. 8	913	240	32	1191
Nut-lock.....	P. T. Brady	315,695	Apr. 14	1277	333	31	238
Nut-lock.....	L. Brandt	322,155	July 14	1052	266	32	195
Nut-lock.....	I. Brooke	330,674	Nov. 17	1659	447	31	899
Nut-lock.....	F. S. D. Broughton	324,295	Aug. 11	1212	330	32	756
Nut-lock.....	H. G. Buch	328,456	Oct. 10	1243	323	33	242
Nut-lock.....	G. D. and C. Bulmer	325,235	Sept. 1	6	2	32	1016
Nut-lock.....	J. H. Burdick	323,560	Aug. 4	214	69	32	565
Nut-lock.....	H. C. Burkhead	314,361	Mar. 24	1790	476	36	1136
Nut-lock.....	J. A. Campbell	310,585	Jan. 20	1074	292	30	212
Nut-lock.....	A. M. Card	325,589	Sept. 1	495	124	32	1110
Nut-lock.....	J. B. Clements	315,001	Apr. 7	21	6	31	6
Nut-lock.....	W. S. Clymer	314,112	Mar. 17	1410	322	30	1065
Nut-lock.....	J. H. Comstock	321,691	July 7	379	101	32	71
Nut-lock.....	J. C. Cookerley	320,914	June 30	2673	710	31	1567
Nut-lock.....	M. G. Crane	327,773	Oct. 6	349	90	33	61
Nut-lock.....	P. M. Crocker	312,555	Feb. 17	1510	412	30	644
Nut-lock.....	J. Cunningham	325,397	Sept. 1	948	62	32	1062
Nut-lock.....	T. Decker	326,407	Sept. 15	1585	412	32	1323
Nut-lock.....	G. W. Desmond	330,471	Nov. 17	1415	377	33	790
Nut-lock.....	W. H. Dinsmore	311,679	Feb. 10	549	151	30	459
Nut-lock.....	A. Fisher	325,829	Sept. 8	837	207	32	1174
Nut-lock.....	J. M. Fry	333,212	Dec. 29	2833	741	33	1730
Nut-lock.....	A. S. Goodrich	329,547	Nov. 3	172	45	33	532
Nut-lock.....	S. M. Guas	316,616	Apr. 28	2245	501	31	436
Nut-lock.....	H. H. Ham, Jr.	330,394	Nov. 17	1311	348	33	771
Nut-lock.....	J. Hayes	330,237	Nov. 10	1087	287	33	721
Nut-lock.....	P. Hebert	314,576	Mar. 31	2063	576	30	1216
Nut-lock.....	R. Howarth	321,500	July 7	130	32	32	21
Nut-lock.....	J. B. T. Hull	329,649	Nov. 3	301	77	33	552
Nut-lock.....	J. B. Law	332,540	Dec. 15	1891	494	33	1347
Nut-lock.....	S. T. Leggett	312,093	Dec. 8	1261	397	33	1232
Nut-lock.....	J. M. Lindsley	321,735	July 7	431	115	32	61
Nut-lock.....	S. S. Lowe and G. R. Johnson	328,416	Oct. 13	1173	309	33	225
Nut-lock.....	C. Maldner	312,669	Dec. 15	2074	544	33	1790
Nut-lock.....	F. L. Miller	322,628	July 21	1642	434	32	314
Nut-lock.....	W. C. Mittle	329,063	Oct. 27	206	542	33	401
Nut-lock.....	A. L. Mitchell	320,270	June 16	1768	469	31	1325
Nut-lock.....	A. Morningsstar	328,244	Oct. 13	955	248	33	129
Nut-lock.....	J. W. Morton	323,715	Aug. 4	432	121	32	604
Nut-lock.....	C. A. Pennington	314,194	Mar. 17	1567	414	30	1064
Nut-lock.....	E. R. Proctor	328,972	Oct. 27	1952	508	33	378
Nut-lock.....	E. R. Proctor	333,155	Dec. 29	2758	722	33	1516
Nut-lock.....	S. H. Raymond	313,623	Mar. 10	798	909	30	935
Nut-lock.....	F. F. Robb	326,333	Sept. 15	1496	390	32	1306
Nut-lock.....	G. P. Rose	332,288	Dec. 15	1533	401	33	1286
Nut-lock.....	W. W. Shailer	324,174	Aug. 11	1039	923	32	723
Nut-lock.....	J. H. Sheehan. (Reissue)	10,578	Apr. 7	660	110	31	118
Nut-lock.....	F. G. Stark	329,861	Nov. 3	529	151	33	615
Nut-lock.....	F. Taylor	326,345	Sept. 15	1518	395	32	1310
Nut-lock.....	J. B. Thompson	332,972	Dec. 22	2486	658	33	1464
Nut-lock.....	J. Tracy	331,848	Dec. 8	896	231	33	1166
Nut-lock.....	D. S. Troy	322,869	July 21	1967	521	32	374
Nut-lock.....	J. B. Ursbruck	333,362	Dec. 29	3040	793	33	1508
Nut-lock.....	I. Van Kuran	324,194	Aug. 11	1066	293	32	732
Nut-lock.....	A. C. Vaughan	312,677	Feb. 24	1662	458	30	629
Nut-lock.....	L. N. White	326,075	Sept. 8	1142	290	33	1233
Nut-lock.....	L. N. White	326,076	Sept. 8	1143	291	32	1233
Nut-lock.....	L. J. Williamson	327,213	Sept. 29	2701	702	33	1538
Nut-lock.....	S. J. Wisdom	326,700	Sept. 22	1973	518	32	1401
Nut-lock.....	A. T. Woods	613,149	Mar. 3	149	37	30	384
Nut-lock.....	G. S. Wynn	324,347	Aug. 11	1287	342	32	770
Nut-lock.....	H. V. Wyson	326,927	Sept. 22	2316	606	32	437
Nut. Lock.....	G. S. Robinson	323,078	July 28	2275	602	32	535
Nut-locking washer.....	E. Andrews	329,615	Nov. 3	262	68	33	928
Nut-locking washer.....	G. C. Thomas	331,169	Nov. 24	2315	627	33	493
Nut-machine.....	R. T. Barton	316,866	Apr. 28	2615	624	31	1476
Nut-machine.....	S. H. Markham	320,571	June 23	2222	588	31	1476
Nut-machine.....	A. Marland	326,762	Sept. 22	2086	541	32	1419
Nut-making machine.....	S. Uren	327,742	Oct. 6	313	80, 81	33	55
Nut. Screw.....	E. C. Ibbotson	323,422	Aug. 4	50	13	32	538
Nut-tapping machine.....	C. G. Crose	327,533	Oct. 6	38	8, 9	33	9
Nut-tapping machine.....	W. R. and T. Eynon	322,363	July 14	1281	335	32	243
Nut. Top-prop.....	A. S. Parker	318,787	May 26	2493	666	31	1005
Nut. Top-prop.....	E. Rothlisberger	313,771	Mar. 10	998	258	30	972
Nut. Top-prop.....	E. Rothlisberger	313,772	Mar. 10	999	258	30	973
Nut. Top-prop.....	E. Rothlisberger	313,774	Mar. 10	1000	258	30	972
Nut-trimming machine.....	T. Snape	312,031	Feb. 10	777	212	30	580
Nuts. Device for adjusting and removing.....	P. G. Geaford, Jr.	317,637	May 12	951	244	31	704
Nuts. Die for cutting hexagonal.....	G. Dunham	324,756	Aug. 18	1843	507	32	861
Nuts, &c. Machine for polishing and sorting.....	W. R. Barnhart	320,326	June 16	1822	494	31	1404
Nuts. Machine for trimming the ends of sleeve.....	H. P. Phipps	315,542	Apr. 14	796	211	31	145
Nuts, &c. Utilizing scrap for the manufacture of.....	S. Uren	327,743	Oct. 6	314	81	33	55
Oar and oar-lock. Bow-facing.....	J. L. Kwarel	330,841	Nov. 17	1877	508	33	572
Oar-blades. Machine for forming.....	G. W. Lingle and J. F. Roop	318,763	May 26	2457	658	31	999

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Oar. Bow-facing	M. M. Clark	325,055	Aug. 25	2252	618	32	864
Oar-lock	J. Klenk and S. H. Haas	325,748	Sept. 8	721	180	32	1155
Oar or paddle for propelling boats	G. Willard	327,900	Oct. 6	519	135	33	93
Oatmeal and grain reduction mill	W. Hutchison	331,403	Dec. 1	208	34.55	33	1035
Oatmeal-machine	G. H. Cormack	320,853	Sept. 22	2212	577	32	1443
Oatmeal-machine	G. Cottrell	320,048	June 16	1477	389 390	31	1333
Oatmeal-machine	J. C. Holloway	324,556	Aug. 18	1560	430 431	32	828
Obstetrical supporter	J. T. Surbaugh	324,498	Aug. 18	1487	407	32	814
Odometer	H. O. Brooks	326,396	Sept. 15	1573	408	32	1320
Odometer	D. N. B. Coffin	323,498	Aug. 4	148	44.45	32	549
Odometer	B. F. Hutches, Jr	321,365	June 30	3252	868 869	31	1675
Odometer for vehicles	C. F. Church	315,727	Apr. 14	1039	273	31	195
Offal-drier	J. Spratt	318,050	May 19	1514	405	31	817
Offal-drier	F. G. Wiseloge	317,061	May 5	169	43	31	554
Oil and albuminoid matter from corn. Extracting the	F. V. Groene	313,665	Mar. 10	853		30	948
Oil and utilizing the vapors of the same. Apparatus for storing	A. J. Gould	318,425	May 19	2002	539	31	908
Oil and water. Separator for mingled	H. H. Garrett	322,817	July 21	1887	501	32	379
Oil and water. Separator for mingled	H. H. Westinghouse and H. H. Garrett	329,791	Nov. 3	489	124	33	598
Oil. Apparatus for treating wheels with	B. Young	323,015	July 28	2184	580	32	420
Oil-burner	E. A. Edwards	314,924	Mar. 31	2565	678	30	1393
Oil-burner and oil-burning stove	R. H. Howard	325,413	Sept. 1	207	66	32	146
Oil-cabinet	H. Krommelbein	322,834	July 21	1918	508	32	365
Oil-can	A. F. Ahlum	321,074	June 30	2890	708	31	1607
Oil-can	W. H. and W. J. Clark	329,759	June 22	2466	633	31	1523
Oil-can	A. L. Day	311,965	Feb. 10	687	188	30	423
Oil-can	W. S. Denton	312,229	Dec. 15	1471	383	33	1275
Oil-can	G. Gerdum	323,128	Aug. 11	706	198	32	644
Oil-can	H. B. Hart	311,488	Feb. 3	37	10	30	376
Oil-can	H. B. Hart	322,447	July 21	1337	37	32	271
Oil-can	D. M. Kirkpatrick and M. J. French	318,622	May 26	2275	607	31	906
Oil-can	W. C. F. Schoellkopf	321,537	July 7	183	48	32	36
Oil-can	A. Tufts	322,559	July 21	1574	414	31	301
Oil-can	H. E. Wolcott	327,975	Oct. 6	610	159	33	110
Oil-can	C. H. Worthen	325,642	Sept. 1	566	144	32	1122
Oil-can and lamp-filler	M. C. Richards	315,532	Apr. 14	810	213	31	151
Oil can and pump combined	M. C. and J. F. Richards	322,108	Dec. 8	1283	333	33	1246
Oil-can lamp-filling attachment	W. Bloomfield	311,465	Feb. 3	7	2.3	30	350
Oil-can. Lubricating	J. S. Hull	325,087	Aug. 25	2294	631	32	972
Oil-can. Pocket	G. A. Payson	317,007	May 5	105	27	31	541
Oil-cleaning apparatus	J. C. Thornon	310,603	Mar. 10	883	230	30	902
Oil-cloth corner-piece	W. Horning	315,409	Apr. 7	585	151	31	105
Oil-cloth knife	A. S. Seaman	322,735	July 21	1808	477	32	344
Oil-cloth. Manufacture of	P. Tebbets and D. R. Faulkner	322,004	Oct. 13	757		33	143
Oil-cloth. Manufacture of floor	D. N. Melvin	320,254	Nov. 10	1108	204	33	724
Oil. Compound for harness	C. M. Ely	327,871	Oct. 6	471		33	84
Oil-cup	E. Best	314,300	Mar. 24	1789	476	30	1136
Oil-cup	P. W. Leffer	326,602	Sept. 22	1918	503	32	1390
Oil-cup	E. Lunkenheimer	317,404	May 5	728	184	31	654
Oil-cup	I. R. McNary	330,506	Nov. 17	1454	369	33	798
Oil-cup	G. G. Profantaine	327,432	Sept. 29	3009	786	32	1590
Oil-cup	T. D. Ruggles	317,580	May 12	877	225	31	690
Oil-cup	A. L. Swift	328,907	Oct. 20	1838	479	33	530
Oil-cup cover	J. E. Zimmerman	314,638	Mar. 31	2166	575	30	1230
Oil-cup. Differential	J. H. Wilkinson	315,101	Apr. 7	155	37	31	29
Oil-cup holder	J. J. Ludwick	321,618	July 7	286	76	32	55
Oil-cup or lubricator. Sight-feed	C. W. Sherburne	319,519	June 9	747	200	31	1195
Oil. Device for extracting and refining crude	J. Davis	328,925	Oct. 27	1874	489	33	364
Oil. Drying	C. A. Wittmack	320,467	Sept. 15	1659		32	1364
Oil. Eliminating the smell of coal	L. Blumenthal	312,005	Feb. 24	1572		30	666
Oil-expressing box	R. S. Cathcart	320,847	June 23	2573	681	31	1543
Oil-expressing box	T. P. Sullivan and E. M. Hazard	320,806	June 23	2641	701	31	1555
Oil-expressing box package shaping machine	R. S. Cathcart	320,848	June 23	2574	681	31	1543
Oil freezing machine. Paraffine	W. Asher	327,985	Oct. 13	624	164	33	120
Oil from cotton-seed. Apparatus for extracting	G. Leder	318,191	May 19	1887	452	31	850
Oil from formed oil-cake. Extracting	J. L. Moss and N. Littell	313,440	Mar. 3	567		30	822
Oil from seed. Press-box for extracting	J. Davis	317,664	Oct. 6	226	55	33	40
Oil mat.	W. W. Clock	315,166	Apr. 7	183	45	31	33
Oil of low cold test. Compound from which can be made a lubricating	R. Pattin	318,389	May 19	1957		31	900
Oil-press	J. H. McGowan	315,589	Apr. 14	776	205	31	144
Oil-press box	W. P. Callahan and T. De Armon	319,673	June 9	950	252	31	1232
Oil-press cloth	G. Oliver	317,003	May 5	100	26	31	541
Oil-press mat	A. Jones and T. Blake	314,679	Mar. 31	2213	588	30	1239
Oil-press mat	W. Krutzsch	328,414	Oct. 13	1191	308	33	225
Oil-press mat	G. Oliver	320,442	June 16	2054	539	31	1436
Oil-press mat and compressor	W. F. Shaffer	331,102	Nov. 24	2307	625	33	906
Oil-presses. Wire mat for	R. B. Brown	316,874	Apr. 28	2625	684	31	495
Oil previously used in mechanical operations. Process of and apparatus for reclaiming	G. O. Cromwell and H. E. Coy	322,425	July 21	1366	357	32	265
Oil. &c. Refining	A. Rock	316,663	Apr. 28	2304		31	437
Oil. Rosin	D. J. Ogilvy	324,878	Aug. 25	2019		32	920
Oil-tank	C. B. De la Vergne, Jr	329,026	Oct. 27	2036	528	33	373
Oil-tank	C. A. Fisher	314,233	Mar. 24	1615	427	30	1103
Oil-tank	S. Van Antwerp	320,514	June 23	2152	568	31	1462
Oil tank or can	W. Heston	320,483	Nov. 17	1427	321	33	791
Oil-tanks. Apparatus for removing paraffine from	J. W. Norton and F. H. Rouse	313,514	Mar. 10	658	172	30	908
Oil. Treating cotton-seed	J. B. Grant	328,024	Oct. 13	672	177	33	124
Oil. Treating oleaginous seeds for the extraction of	A. E. Thornton	312,674	Feb. 24	1658		30	682
Oil. Treatment of cotton-seed	J. B. Armstrong	318,410	May 19	1983	533	31	905

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Oil-vapors. Apparatus for separating	J. E. Bicknell	313,979	Mar. 17	1297	336	30	1034
Oils. Apparatus for chilling paraffine and other	T. D. Fairfield, J. L. Clark, and R. Hughes	323,209	Dec. 29	2829	740	33	1530
Oils. Apparatus for freezing paraffine	J. Teagle	314,468	Mar. 24	1967	523	30	1168
Oils. Apparatus for refining	J. Thomas	314,490	Mar. 24	1969	584	30	1169
Oils. Manufacture of linseed and other	H. T. Yaryan	312,418	Feb. 17	1311	362	30	692
Oils. Oxidizing linseed and other	J. W. and F. R. Hoard	312,351	Feb. 17	1231	338	30	592
Oils. Refining, reducing, and separating hydrocarbon	E. W. Strain	311,543	Feb. 3	116	34	30	371
Oils. Treating cotton-seed and analogous	J. B. Grant and A. Mason	331,702	Dec. 1	688	170	33	1119
Oiler	J. J. and J. Q. Leavitt	314,692	Mar. 31	2829	592	30	1532
Oiler	E. J. Wells	319,154	June 3	269	71	31	1097
Oiler. Automatic	F. P. Crockett	311,109	Jan. 20	1252	343	30	845
Oiler. Bench	J. H. Stone	333,487	Dec. 29	3202	687	33	1565
Oiler. Car-axle	J. Gibbons	311,893	Feb. 10	582	159	30	444
Oiler. Car-axle	J. Gibbons. (Reissue)	10,644	Sept. 8	1152	294	32	1235
Oiler. Car-axle	J. Gibbons	329,730	Nov. 3	410	105	33	563
Oiler. Car-axle	G. R. Meneely and J. Gibbons	322,625	July 21	1636	433	32	314
Oiler. Crank-pin	F. W. Krantz	330,904	Nov. 24	1963	531	33	902
Oiler for car-axes	J. Gibbons	311,071	Jan. 20	1194	328	30	225
Oiler for crank-pins. Automatic	J. M. Hartnett	314,934	Mar. 31	2684	624	30	1306
Oiler for lubricating wool. Automatic	J. C. Thickins	324,613	Aug. 18	1642	453	32	843
Oiler for steam-engines. Self	J. Parkinson	315,059	Apr. 7	105	24	31	21
Oiler. Valve	S. D. Mershon	324,574	Aug. 18	1586	437	32	833
Oiling and polishing wheels. Machine for	F. W. Starr	319,636	June 9	909	240	31	1224
Oiling-can	F. W. Born	311,925	Jan. 27	1426	329	30	228
Oiling device for adjustable chairs and stools	L. Postawka	320,395	June 16	1994	525	31	1426
Oiling the arbors of shell-rollers. Device for	C. S. Tuttle and F. Twitchell	313,133	Mar. 3	123	30	30	799
Ointment	D. M. Allen	328,631	Oct. 20	1490		33	940
Ointment	D. H. Bieallion	320,636	June 23	2555		31	1540
Oleaginous substances. Steam heater or kettle for	J. A. Lewis	331,895	Dec. 8	964	249	33	1179
Oliver	M. Headen	325,342	Sept. 1	148	41	32	1043
Open-hearth furnace for iron and steel	O. Murisier and P. C. Gilchrist	330,415	Nov. 17	1337	356	33	775
Opera-chair	H. S. Bacon	325,149	Aug. 25	2368	652	32	986
Opera-chair	E. G. Durant	323,301	July 28	2533	688	32	494
Opera-chair	T. W. Eaton	329,151	Oct. 27	2211	573	33	423
Opera-chair	T. W. Eaton	329,292	Oct. 27	2411	625	33	462
Opera-chair	T. I. Knight	324,561	Aug. 18	1565	432	32	829
Opera-chair	J. M. Sander	334,551	Dec. 1	416	112	33	1073
Opera-chair	E. Shupe	327,626	Sept. 29	2445	639	32	1492
Opera-chair	I. L. Stone	325,263	Sept. 1	78	22	32	1029
Opera-glasses in theaters, &c. Safety receptacle for	C. B. Sherwood	319,518	June 9	746	200	31	1194
Operating-chair	J. B. Robinson and G. W. Holmes	332,338	Dec. 22	2295	605	33	1429
Ordnance	B. T. Babbitt	316,105	Apr. 21	1566	407	31	297
Ordnance. Apparatus for firing	J. Jenc	325,544	Sept. 1	443	110	32	1100
Ordnance. Breech-loading	R. J. Gatling	311,973	Feb. 10	699	192	30	465
Ordnance. Gas-check for	J. B. Davis	318,083	May 19	1563	419	31	226
Ordnance-lock	W. Lorenz	318,785	May 26	2460	650	31	1009
Ordnance lock. Breech-loading	G. Quick	324,272	Aug. 11	1184	321	32	750
Ordnance. Pneumatic	E. Hill	315,030	Apr. 7	58	14	31	12
Ore and salt drier	R. A. Nevin	319,610	June 9	678	232	31	1919
Ore, &c. Apparatus for grinding	F. S. Burr and W. M. Fuller	315,716	Apr. 14	1026	269	31	192
Ore by means of petroleum. Smelting	F. C. Weber	325,293	Sept. 1	85	25	32	1032
Ore-concentrating apparatus	H. C. and J. A. Henderson	325,835	Sept. 8	833	298	32	1175
Ore-concentrating jigger	J. S. Loder	331,071	Nov. 24	2167	588	33	942
Ore-concentrating mill	J. W. Bailey	329,694	Nov. 3	361	12	33	573
Ore-concentrating table	L. S. Osgood	324,783	Aug. 18	1680	517	32	888
Ore-concentrator	N. Butler	317,621	May 12	935	240	31	700
Ore-concentrator	J. Cherney and W. C. Davis	311,863	Feb. 3	519	140	30	446
Ore-concentrator	A. D. Clarke	329,006	Oct. 13	650	171	33	125
Ore-concentrator	A. A. Kent	312,663	Feb. 24	1918	525	30	727
Ore-concentrator	W. A. Koneman and H. H. Scoville	315,147	Apr. 7	220	54, 55	31	40
Ore-concentrator	C. W. Patten	315,824	Apr. 14	1174	307	31	220
Ore-concentrator	E. W. Sinclair	319,857	June 9	1206	318	31	1277
Ore-concentrator	E. W. Stephens	325,129	Aug. 25	2,14	646	32	981
Ore-concentrator	E. W. Stephens	329,862	Nov. 3	591	151	33	615
Ore-concentrator	H. P. Tobey and G. B. Thayer	326,808	Sept. 22	2152	560	32	1431
Ore-concentrator	K. F. Willkomm and C. Schumann	313,145	Mar. 3	141	35	30	403
Ore concentrator and separator	F. G. Corning	311,231	Jan. 27	1432	391	30	244
Ore concentrator. Wet	J. R. Moffitt	327,708	Oct. 6	274	70	33	48
Ore-concentrators. Apparatus for cleaning filters of	A. D. Clarke	323,790	Aug. 4	525	14	32	621
Ore-concentrators. Attachment for	A. McCormick	325,104	Aug. 25	2312	637	32	976
Ore-concentrators. Filtering-table for	A. D. Clarke	323,791	Aug. 4	526	149	32	622
Ore-crusher	U. Cummings	324,664	Aug. 18	1721	474	32	852
Ore-crusher	S. R. Krom	330,404	Nov. 17	1329	354	33	774
Ore-crusher	F. H. McDowell	328,132	Oct. 13	811	212	33	154
Ore-crusher	J. C. Wicwell. (Reissue)	10,659	Nov. 3	613	156	33	620
Ore crusher and pulverizer	H. R. Taylor	313,554	Mar. 10	708	184	30	918
Ore crushing and amalgamating machine	S. T. Richardson	320,396	June 16	1995	525	31	1426
Ore-crushing machine	E. M. Carhart	332,488	Dec. 15	1800	473	33	1322
Ore-crushing machine	J. B. Low	329,750	Nov. 3	437	111	33	567
Ore-crushing machine	W. Waring	324,197	Aug. 11	1089	294	32	753

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Ore-crushing machine.	W. E. Wild.	315,583	Apr. 14	853	235	31	158
Ore-crushing machine.	W. E. Wild.	331,017	Nov. 24	2106	570	33	929
Ore. Deoxidizing iron.	C. J. Eames	318,805	May 26	2248		31	961
Ore-disintegrating machine.	A. Higley	330,115	Nov. 10	938	244 245	33	691
Ore-feeder.	J. Hendy	322,716	July 21	1758	404 405	32	336
Ore-feeder.	W. S. Sharpneck	325,701	Sept. 8	641	163	32	1140
Ore-filter. Centrifugal.	T. T. Eyre	315,398	Apr. 7	570	147	31	103
Ore for the production of alloys, bronzes, and metallic compounds. Electric process of smelting	E. H. and A. H. Cowles	324,658	Aug. 18	1716	472	32	857
Ore-furnace.	E. F. Russell	310,619	Jan. 13	588	162	30	119
Ore-grinding mill.	A. B. Paul	315,925	Apr. 14	1176	307	31	220
Ore-pulverizer.	J. K. Griffin	318,181	May 19	1674	449	31	848
Ore pulverizing and amalgamating mill.	J. W. Bailey	321,937	July 14	731	191	32	141
Ore. Reducing iron.	C. J. Eames	318,606	May 26	2249		31	961
Ore roasting and smelting furnace.	B. F. Hambleton	332,894	Dec. 22	2382	630	33	1444
Ore-roasting furnace.	W. Brückner	321,003	June 30	2791	741 742	31	1588
Ore-roasting furnace.	J. F. Carter	311,058	Jan. 20	1176	322 323	30	232
Ore-roasting furnace.	E. Green	323,766	Aug. 4	374	106	32	592
Ore separating and concentrating machine.	H. Landrin	321,118	June 30	2946	781	31	1615
Ore-separating machine.	H. S. and V. M. Gideon.	324,550	Aug. 18	1553	499	32	827
Ore-separator.	G. H. Blake	332,696	Dec. 22	2123	560	33	1395
Ore-separator.	W. L. Card	320,756	June 23	2461	672	31	1522
Ore-separator.	E. Coleman	327,766	Oct. 6	341	83	33	60
Ore-separator.	D. F. McKim	325,429	Sept. 1	287	71	32	1070
Ore-separator.	J. C. Porter	317,192	May 5	364	90	31	539
Ore separator and concentrator.	J. Behm	320,998	June 30	2784	740	31	1587
Ore separator and concentrator.	I. F. Monell	333,322	Dec. 29	2988	782 783	33	1559
Ore, &c. Separator for sizing.	W. A. Miles	325,557	Sept. 1	459	114 115	32	1103
Ore, stone, &c. Machine for crushing.	W. B. and M. H. Rice	328,144	Oct. 13	826	215 216	33	157
Ore-washer.	G. W. Lyon	323,875	Aug. 4	632	178	32	642
Ore-washer.	W. J. Muncey	318,014	May 19	1463	391	31	808
Ores. Apparatus for disintegrating.	H. B. Meech	321,835	July 7	591	153	32	108
Ores for amalgamation and desulphurizing the same. Preparing	C. R. Squire	312,587	Feb. 17	1549		30	652
Ores for amalgamation. Treatment of.	M. R. Conley	314,113	Mar. 17	1461		30	1065
Ores, &c. Machine for pulverizing.	G. Friabee	321,429	July 7	22	5	32	7
Ores, &c. Machine for pulverizing.	G. Friabee	321,430	July 7	23	6	32	7
Ores, &c. Machine for pulverizing.	J. W. Hilton	323,147	July 28	2363	627	32	454
Ores, &c. Machine for reducing.	G. and A. Raymond	315,338	Apr. 7	464	122 123	31	89
Ores, phosphates, &c. Machine for crushing.	W. C. Bibb	333,383	Dec. 29	3063	799	33	1571
Ores. Process of and apparatus for roasting.	O. H. and W. W. Tobey	315,089	Apr. 7	138	32	31	26
Ores, &c. Reducing.	J. K. Griffin	318,245	May 19	1758	470	31	864
Ores, &c. Reducing and discharging.	H. Bolthoff	312,957	Feb. 24	2027	553	30	747
Ores. Solution of dichloride of copper, &c., for treating.	A. Patchen	319,118	June 2	230	60	31	1090
Ores with superheated steam. Apparatus for treating.	J. H. Mathews	313,748	Mar. 10	966	249 250	30	965
Organ-action.	E. P. Carpenter and M. S. Wright.	326,624	Sept. 22	1869	489 490	32	1381
Organ-action.	J. Peloubet	329,674	Nov. 3	332	85	33	568
Organ-action.	F. Stone	326,171	Sept. 15	1266	326	32	1263
Organ-action. Electric.	G. G. Wacker	326,359	Sept. 15	1534	398	32	1313
Organ-coupler.	O. C. Whitney	329,796	Nov. 3	494	125	33	599
Organ mute. Reed.	J. G. Earbuff and R. Alden	326,551	Sept. 22	1765	462	32	1364
Organ octave-coupler.	W. Murphy	322,121	July 14	976	254 255	32	186
Organ-pedal.	S. W. Herrick and P. J. Lawrence.	323,678	Aug. 4	386	111	32	595
Organ pedal attachment.	J. Swanson	311,688	Feb. 3	300	82	30	405
Organ-pipe.	A. Wales	324,437	Aug. 18	1410	384	32	800
Organ. Reed.	M. Clark	310,933	Jan. 20	998	271	30	197
Organ. Reed.	G. B. Kelly	321,220	July 7	573	148	32	105
Organ-reed.	M. Gally	314,234	Mar. 24	1616	427	30	1103
Organ-reed.	M. Gally	314,235	Mar. 24	1617	428	30	1103
Organ-reed.	M. Gally	324,371	Aug. 18	1318	358	32	784
Organ-reed.	M. Gally	326,638	Sept. 22	1888	495	32	1385
Organ-reed.	A. Newell	322,469	July 21	1426	373	32	276
Organ stop-action.	C. F. Sharps	321,455	July 7	64	18	32	15
Organ stop-action.	M. S. Wright	310,239	Jan. 6	97	26	30	21
Organ stop-action. Reed.	E. P. Carpenter	326,647	Oct. 20	1510	392	32	289
Organ stop-action. Reed.	M. Clark	326,274	Sept. 15	1415	368	32	1290
Organ stop-action. Reed.	J. A. Warren	322,509	July 21	1494	392	32	267
Organ stop-knob.	R. Alden	322,448	Oct. 20	1237	321	33	241
Organ tracker-pin.	J. L. Hinners	330,117	Nov. 10	942	245	33	691
Organs. Composition stop-action for.	H. L. Roosevelt	323,211	July 28	2459	653	32	472
Organs. Pneumatic action for.	H. L. Roosevelt and C. S. Haskell.	323,229	Aug. 4	571	162	32	681
Ornamental comb.	J. G. Elsey	323,798	Aug. 4	533	151	32	622
Ornamenting surfaces.	F. Rudolph	333,259	Dec. 29	2905		33	1544
Oscillating chair.	C. E. Whittlesey	330,762	Nov. 17	1780	479	33	861
Oscillating engine.	A. Cunningham	323,298	July 28	2588	687	32	493
Oscillating engine.	A. H. Hafley	314,932	Mar. 31	2578	682	30	1305
Oscillating engine.	J. A. Powers	312,757	Feb. 24	1771	488	30	702
Oscillating engine.	D. C. Putnam	319,423	June 2	596	162	31	1161
Oscillating meter.	E. Tatham	322,500	July 21	1484	389 390	32	286
Oven.	W. H. Albach	324,448	Aug. 18	1422	388	32	802

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Oven and radiator. Warming	J. G. Mechem	311,908	Feb. 10	602	165	30	408
Oven. Bake	J. L. W. Olsen	321,239	June 30	3093	822	31	1643
Oven. Bake	J. L. W. Olsen	324,731	Aug. 18	1793	495	32	672
Oven. Baker's	L. Dathis, Fils.	323,643	Aug. 4	344	98	32	586
Oven. Baker's	D. Girouard	329,898	Nov. 10	646	165	33	633
Oven. Baker's	S. L. Hall	322,282	July 14	1170	304	32	222
Oven. Baking	R. McDonald and C. Fraser	319,603	June 2	91	34	31	1065
Oven. Domestic	W. G. Croom	323,280	July 28	2547	677	30	426
Oven-door attachment	I. A. Abbot	318,155	May 10	1644	439	31	600
Oven for continuous working. Baking or cooking	W. Lorenz	314,144	Mar. 17	1504	392 393 394	30	1073
Oven-heat indicator	S. Porter	315,164	Apr. 7	246	60	31	45
Oven. Portable	A. J. Gilbert and G. Wendling	317,938	May 12	1347	392	31	79
Oven. Portable	W. H. H. and F. H. Knight and A. M. Proctor	320,601	June 23	2514	666	31	1532
Oven. Portable	J. Ringen	316,914	Apr. 28	2692	701	31	508
Oven. Portable	A. P. Steward	317,878	May 12	1268	338	31	764
Oven-shelf	M. Armington	325,645	Sept. 8	574	145	32	1129
Oven. Steam	T. C. St. John	326,170	Sept. 15	1265	325	32	1363
Ovens. Reflector-light for baker's	F. H. Van Houten	330,757	Nov. 17	1772	478	33	859
Overalls	G. Gaston	317,334	May 5	557	142	31	625
Overalls	G. Gaston	332,070	Dec. 8	1322	319	33	1325
Overalls	L. A. Guiterman	328,025	Oct. 13	674	177	33	129
Overalls and pantaloons	J. Goldstein and C. H. Rombach	314,122	Mar. 17	1478	385	30	1066
Overflow-fixture trap	F. L. Brown	325,153	Aug. 25	2373	653	32	987
Overflow for bath-tubs, sinks, &c	T. Kennedy	331,064	Nov. 24	2160	586	33	940
Overflow-pipe for set basins and similar fixtures	J. P. Putnam	329,947	Nov. 10	711	182	33	615
Overflow-trap for wash-basins, bath-tubs, &c	S. Lane, Jr	332,911	Dec. 22	2408	636	33	1449
Overseaming-machine	C. H. Crawford	330,469	Nov. 17	1411	375 376	33	739
Overseaming-machine	F. Egge	324,672	Aug. 18	1733	477 478	32	860
Overshoe	S. C. Belknap and T. H. Fye	313,161	Mar. 3	172	41	30	892
Overshoe	H. I. Crampton	331,036	Nov. 24	2127	577	33	924
Overshoe	L. Elliott	314,569	Mar. 31	2075	554	30	1214
Overshoe	J. S. Hopkins	317,360	May 5	563	150	31	630
Overshoe and leggin. Combined	H. Rudolph and H. Schwenk	332,166	Dec. 8	1369	354	33	1250
Overshoe. Arctic	T. B. Lavey	330,592	Nov. 17	1556	417	33	817
Overshoe-fastening	L. B. Belknap	325,650	Sept. 8	579	147	32	1130
Overshoe. Rubber	E. K. Ray	320,284	June 10	1803	479	31	1380
Oversocks. Manufacturing	R. Greener	321,811	July 7	518	144	32	102
Ox-bow fastening	J. Lowe	326,229	Sept. 15	1370	349	32	1278
Ox-shoe	H. Hotchkiss	312,352	Feb. 17	1231	338	30	592
Ox-shoes. Blank for wrought-metal	W. K. Miller	318,277	May 19	1799	481	31	871
Ox-shoes. Die for forging	W. Pearce	314,189	Mar. 17	1563	409 410	30	1083
Ox-shoes. Die for forging	W. Pearce	314,193	Mar. 17	1566	413 414	30	1083
Ox-shoes. Forging	W. Pearce	314,190	Mar. 17	1564	410 411	30	1083
Ox-shoes. Forging	W. Pearce	314,191	Mar. 17	1565	411 412	30	1083
Ox-shoes. Forging	W. Pearce	314,192	Mar. 17	1565	412 413	30	1083
Oyster-dredge	E. Watts	322,511	July 21	1496	383	32	228
Oyster-dredge windlass	A. and H. Lawson	323,047	July 22	2236	591	32	429
Oyster-opening machine	C. Ledue	332,403	Dec. 15	1064	414	33	1314
Package	J. McCrodden	328,700	Oct. 20	1577	411	33	301
Package-carrier	O. W. Griffiths	317,640	May 12	958	246	31	705
Package-compressor	G. W. Luce, G. Boole, and B. Bryon	315,044	Apr. 7	80	19	31	16
Package-filling apparatus	C. W. Young	326,826	Sept. 22	2179	568	32	1436
Package-wrapper	D. D. Kelley	310,206	Jan. 6	62	16	30	14
Packages. Fastening for tied	M. McCarty	332,924	Dec. 22	2421	640	33	1453
Packages. Fastening for tied	M. McCarty	332,925	Dec. 22	2422	640	33	1453
Packages of merchandise. Fastening-band for	S. W. Page	329,205	Oct. 27	2292	593	33	438
Packing	T. James	314,848	Mar. 31	2460	650	30	1265
Packing. Adjustable metallic	F. M. Blako	318,082	May 19	1549	415	31	894
Packing. Asbestos	J. Dewrance	311,729	Feb. 3	347		30	414
Packing band. Joint	D. B. Morrell	333,735	Dec. 22	2174	574	33	1466
Packing-box	O. Place	324,485	Aug. 18	1469	402	32	810
Packing-case	J. C. Bauer	312,421	Feb. 17	1315	363	30	609
Packing. Cylinder-piston	G. B. Simonds	331,454	Dec. 1	284	78	33	1049
Packing deep-well pumps	H. M. Campbell	318,447	May 26	2029	547	31	922
Packing for axle-boxes	E. Waite	326,179	Sept. 15	1223	331	32	1285
Packing for hydraulic pistons	A. B. See	311,380	Jan. 27	1644	450	30	321
Packing for oil-well tubing	M. Dayhuff	321,488	July 7	106	29	32	81
Packing for pistons, journal-bearings, &c	B. W. Goodsell and B. F. Elsom	329,160	Oct. 27	2225	576	33	436
Packing for pistons, &c. Spring	R. H. Taylor	313,251	Mar. 3	321	79	30	835
Packing for rock-drills. Piston-head	L. S. Woodbury	310,538	June 9	772	206	31	1199
Packing for rock-drills. Piston-head	L. S. Woodbury	330,829	June 23	2542	675	31	1538
Packing for stuffing-boxes	E. S. Hough	322,846	Oct. 20	1755	457	33	336
Packing for stuffing-boxes	J. H. Mars	326,574	Sept. 22	1792	470	32	1389
Packing for stuffing-boxes of piston-rods, &c	J. H. Smith and R. Marshall	317,869	May 12	1259	335	31	792
Packing for vessels, &c	G. R. Phillips	323,731	Aug. 4	46	129	32	608
Packing. Metal	N. Hemenway	331,056	Nov. 24	2148	583	33	928
Packing. Metallic	J. Richards	323,446	Aug. 4	82	24	32	538
Packing. Metallic piston	N. Pfauum	332,433	Dec. 15	1737	454	33	1221
Packing. Piston	T. Barber	313,704	Mar. 10	900	234	30	954
Packing. Piston	T. Barber. (Reissue)	10,628	July 28	2707	721	34	515
Packing. Piston	J. Brandon	315,115	Apr. 7	171	41	31	31
Packing. Piston	G. Delagneau	327,666	Oct. 6	227	56	33	40
Packing. Piston	G. Dick	324,754	Aug. 18	1841	507	32	860
Packing. Piston	J. Garrison	310,770	Apr. 28	2480	647	31	469

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr g.	Vol.	Page.
Packing. Piston.....	W. C. McTyeire.....	329,665	Nov. 3	321	82	33	565
Packing. Piston.....	W. W. St. John.....	325,022	Aug. 25	2209	606	32	955
Packing. Piston.....	B. C. Waite.....	331,219	Nov. 24	2392	647	33	980
Packing piston and valve rods.....	W. S. Colwell.....	313,180	Mar. 3	206	50	30	815
Packing. Piston-rod.....	W. Augustus.....	320,525	June 23	2168	572	31	1465
Packing. Piston-rod.....	G. H. and J. Dickson.....	332,793	Dec. 22	2246	592	33	1419
Packing. Piston-rod.....	J. W. Dudley.....	324,066	Aug. 11	930	257	32	703
Packing. Piston-rod.....	J. H. Guiley.....	323,320	July 28	2617	095	32	499
Packing. Piston-rod.....	R. W. Killmer.....	324,776	Aug. 18	1872	515	32	887
Packing. Piston-rod.....	W. H. Prince.....	320,688	June 23	2282	630	31	1505
Packing. Piston-rod.....	S. H. Reynolds and G. E. Danforth.....	324,884	Aug. 25	2026	555	32	922
Packing. Piston-rod.....	L. Shook.....	315,350	Apr. 7	501	128	31	92
Packing. Piston-rod.....	S. D. Thurston.....	318,400	May 19	1970	530	31	903
Packing. Piston-rod.....	C. C. Worthington.....	332,856	Dec. 22	2324	615	33	1433
Packing-ring. Asbestos.....	W. Wood.....	326,679	Sept. 8	1146	291	32	1234
Packing-ring for pistons, pump-buckets, &c. Metallic.....	W. Buckley.....	313,980	Mar. 17	1298	338	30	1034
Packing-ring. Metallic.....	L. Schnabl.....	316,188	Apr. 21	1673	438 439	31	317
Packing-ring. Spring-piston.....	V. F. Stetzer.....	331,458	Dec. 1	291	79	33	1050
Packing. Steam-joint.....	A. A. Adams and W. Lee.....	311,707	Feb. 3	733	89	30	410
Packing. Steam-pipe-joint.....	J. B. Lyons.....	332,667	Dec. 15	2066	542	33	1379
Packing. Stuffing-box.....	F. J. Roth.....	327,456	Sept. 29	3015	787	32	1591
Packing. Vulcanized-rubber.....	F. C. Jones.....	331,140	Nov. 24	2275	617	33	960
Pad: See Blotting-pad. Hoof-pad. Bosom-pad. Horseshoe-pad. Clothes-rubbing-pad. Inking-pad. Collar-pad. Interfering-pad. Collar sweat-pad. Saddle-pad. Desk-pad. Stair-pad. Eyeglass nose-pad. Stamp-pad. Furniture-pad. Tailor's press-pad. Harness-pad. Truss-pad.							
Pad fastener. Sweat.....	B. F. Rice.....	318,505	May 26	2106	568	31	937
Pad fastening. Sweat and chafe.....	J. A. Smith.....	318,317	May 19	1860	499	31	822
Pad book. Sweat.....	J. Straus.....	321,155	June 30	2090	793	31	1624
Pad-tree. Anti-friction.....	H. T. Richmond.....	315,444	Apr. 7	634	184	31	113
Paddle-wheel. Feathering.....	W. C. Burne.....	313,652	Mar. 10	839	218	30	943
Paddle-wheel. Feathering.....	W. Emmett.....	315,263	Apr. 7	392	98	31	71
Paddle-wheel. Feathering.....	J. P. Hickey.....	316,783	Apr. 28	2405	651	31	471
Paddle-wheel. Feathering.....	P. C. Marsh.....	310,451	Jan. 6	369	102	30	72
Paddle-wheel. Feathering.....	J. Williams.....	310,350	Jan. 6	259	71	30	49
Paddle-wheel for propelling vessels.....	J. S. Allen.....	318,408	May 19	1981	533	31	905
Paddle-wheel for vessels.....	T. C. Love.....	317,657	May 12	978	252	31	708
Paddle-wheel guard. Steamboat.....	J. Murphy.....	320,160	June 26	1627	453	31	1360
Padlock.....	W. Bohannon.....	318,537	May 26	2153	580	31	945
Padlock. Permutation.....	S. McCarter.....	323,185	July 28	2427	643	32	465
Padlock. Permutation.....	F. Egge.....	316,345	Apr. 21	1874	496	31	352
Padlock. Permutation.....	J. Kubler.....	323,941	Aug. 11	724	202	32	667
Padlock. Permutation.....	C. F. Walker and M. Ransom.....	330,647	Nov. 17	1622	436	33	831
Padlock. Permutation.....	E. W. Wilson.....	327,046	Sept. 29	2475	646	32	1497
Pail. Chamber.....	T. A. Cook.....	313,990	Mar. 17	1304	341	30	1036
Pail. Commode.....	C. F. Crockett.....	318,873	May 26	2612	693	31	1025
Pail. Dinner.....	E. H. Beers.....	325,039	Aug. 25	2234	612	32	961
Pail. Dinner.....	W. Bord.....	320,454	June 23	2079	547	31	1449
Pail. Dinner.....	W. A. Gill.....	317,762	May 12	1112	293	31	734
Pail. Dinner.....	E. P. Ryder.....	325,217	Aug. 25	2464	678	32	1003
Pail-car.....	J. Spruce and A. M. Comstock.....	329,231	Oct. 27	2327	603	33	445
Pail for commodes.....	D. E. Truo.....	323,469	Aug. 4	111	32	32	542
Pail-holding device for milking purposes.....	F. T. Cook.....	320,889	Nov. 10	636	162	33	631
Pail. Milk.....	W. Koegel and F. Strohaecker.....	325,179	Aug. 25	2413	663	32	994
Pail. Milk.....	C. G. Manley.....	329,467	Nov. 3	55	15	33	515
Pail. Sheet-metal.....	I. N. Ellmaker.....	319,080	June 2	182	48	31	1052
Pail-wiring machine.....	H. Mann.....	314,698	Mar. 31	2237	595	30	1243
Pails. Detachable spout for milk.....	C. A. Bacon.....	330,003	Nov. 10	789	202	33	659
Paint.....	C. E. Brown.....	319,951	June 16	1347	.....	31	1310
Paint.....	J. Klee.....	335,415	Sept. 1	260	.....	32	1066
Paint.....	J. P. Perkins.....	318,791	May 26	2497	.....	31	1005
Paint.....	W. H. Wilber.....	311,401	Jan. 27	1673	.....	30	328
Paint-breamer.....	T. Poyser.....	324,163	Aug. 11	1036	280	32	721
Paint-cans. Cap for sheet-metal.....	E. K. Baker.....	323,623	Aug. 4	321	92	32	582
Paint composition.....	P. C. Connell.....	325,160	Aug. 25	2340	.....	32	978
Paint composition. Roof.....	D. Brobst.....	315,471	Apr. 14	689	.....	31	128
Paint-distributor.....	W. I. Armstrong.....	311,631	Feb. 3	228	64	30	392
Paint-distributor.....	L. Walkup.....	310,754	Jan. 13	760	207	30	150
Paint. Fire and water proof.....	C. H. Phillips, J. Troden, and J. Golling.....	326,776	Sept. 22	2106	.....	32	1423
Paint for roofing, &c.....	F. M. Hubbard.....	329,740	Nov. 3	424	.....	33	545
Paint from metallic lead. Manufacture of.....	W. E. Harris.....	327,678	Oct. 6	243	.....	33	41
Paint. Lime.....	W. I. Adams and W. R. Polk.....	310,550	Jan. 13	503	.....	30	103
Paint-mill. Double-grinding.....	J. A. Berrill.....	321,675	July 7	355	94	32	67
Paint. Mixed.....	L. Brown.....	328,643	Oct. 20	1505	.....	33	288
Paint. Mixed.....	G. T. Clare.....	324,230	Aug. 11	1129	307	32	740
Paint. Mixed.....	R. W. Davis.....	324,236	Aug. 11	1134	.....	32	741
Paint. Mixed.....	H. C. Dorr.....	331,383	Dec. 1	178	.....	33	1020
Paint. Mixed.....	T. N. Le Ross.....	310,984	June 16	1394	.....	31	1318
Paint. Mixed.....	D. Lublinski.....	327,447	Sept. 29	3003	.....	32	1580
Paint. Mixed.....	C. Miller.....	328,857	Oct. 20	1767	.....	33	338
Paint. Mixed.....	W. F. D. Pascoe, J. M. Haines, and J. Dutland.....	317,004	May 5	101	.....	31	541
Paint. Mixed.....	J. Stackhouse.....	333,169	Dec. 29	2776	.....	33	1520
Paint. Mixed.....	W. H. Van Keuren.....	322,659	July 21	1682	32	322
Paint. Mixed.....	J. B. Wood.....	312,784	Feb. 24	1807	30	708

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Paint-mixer	F. Brandenberger	330,555	Nov. 17	1517	405	33	809
Paint-mixer	O. J. Buck	318,864	May 26	2604	691	31	1024
Paint-mixer	C. Ross, Jr.	316,487	Apr. 28	2087	546	31	386
Paint-mixer	D. J. Starrett ..	314,546	Mar. 24	2039	544	30	1180
Paint-pail	J. T. Brien	339,043	Dec. 8	1184	310	33	1218
Paint-pot	C. M. Hill's	323,420	Aug. 4	48	12	33	338
Paint-remover	F. P. Foster	328,666	Oct. 20	1535	.....	33	284
Paint-solvent	J. Kotrba	328,589	Oct. 20	1417	.....	33	273
Paint. Transfer	G. Kennerley and B. Creighton ..	312,474	Feb. 17	1395	.....	30	682
Paint-tub for wagon-wheels	M. T. Winton	311,217	Jan. 27	1410	385	30	280
Painted articles. Apparatus for drying ..	G. and C. J. Deckman ..	315,604	Apr. 14	675	230	31	162
Painters, &c. Carrier or elevator for ..	S. Spitzer	329,497	Nov. 3	98	26	33	524
Painter's jack	O. W. Van Denburgh ..	329,243	Oct. 27	2345	607	33	448
Painter's sander	J. P. Ryan	325,016	Aug. 25	2203	603	32	854
Painting	F. G. Painter	315,324	Apr. 7	467	118	31	85
Painting and graining tool	J. Hammerl	327,874	Oct. 6	473	123	33	84
Painting bobbins. Apparatus for	L. C. Baldwin	331,757	Dec. 8	774	196	33	1144
Painting-machine	E. Green and W. K. Palmer ..	330,318	Nov. 10	1193	319	33	748
Painting-machine	L. T. Hatfield	327,264	Sept. 29	2763	717	32	1548
Painting-machine	A. K. Nesbitt	327,815	Oct. 6	406	105	33	71
Pan:							
See Amalgamating-pan. Dust-pan.							
Ash-pan. Evaporating-pan.							
Baking-pan. Frying-pan.							
Bed-pan. Locomotive ash-pan.							
Boiler ash-pan. Milk-pan.							
Clarifying and evaporating pan. Patty-pan.							
..... Vacuum-pan.							
Panel and wood trimmings. Manufacturing ..	F. Mankey	325,351	Sept. 1	159	43	32	1045
Panel for use in the construction of cars, boats, &c. ..	W. D. Mann	311,092	Jan. 20	1124	307	30	222
Panel or plaque. Artist's	E. De Planque	319,303	June 2	324	86	31	1108
Panel. Ornamental	C. D. Pease	329,771	Nov. 3	466	118	33	594
Panel-raising machine	J. Lobnitz	312,364	Feb. 17	1943	342	30	594
Panels. Producing open-work	F. Mankey	332,732	Dec. 23	2158	570	33	1402
Pannier and bustle	J. Schoenhof	312,518	Feb. 17	1463	401	30	635
Pannier or pannier-skirt	C. C. Carpenter and G. W. Lockwood ..	324,300	Aug. 11	1220	332	32	758
Pantaloon-protector	F. R. Hogeboom	320,658	June 23	2345	620	31	1488
Pantaloon-strap and waistband combined	H. Goodman	321,962	July 14	761	199	32	146
Pantaloon	C. B. Cones	328,384	Oct. 13	1151	296	33	217
Pantaloon and overalls	S. D. Blake	318,945	June 2	11	3	31	1050
Pantaloon, drawers, or overalls	J. Eienor	323,569	Aug. 4	245	79	32	567
Pantaloon for hunters, &c.	F. Walloch	323,928	Aug. 11	785	218	32	618
Pantaloon-support	F. Ashton	323,899	Aug. 11	673	169	32	657
Panta. Attachment for	J. J. Neubert	312,824	Feb. 24	1941	531	30	731
Panta. Attachment for	I. Stark	312,033	Feb. 10	779	219	30	501
Pants, overalls, and drawers. Supporting attachment for ..	I. Stark	321,654	July 7	326	86	32	62
Pants. Supplementary waistband for	L. Freidenrich	333,064	Dec. 22	2618	696	33	1467
Pantograph	M. Diamond	310,186	Jan. 6	37	11	30	9
Paper and other fibrous material for journal-bearings, beltings, &c. Treatment of ..	H. W. Morrow	322,029	July 21	1642	434	32	314
Paper and straw board. Applying paraffine and similar substances to ..	W. B. Howe	329,743	Nov. 3	429	.....	33	526
Paper. Apparatus for making wax or paraffine	E. G. Sparks	326,688	Sept. 22	1957	514	32	1396
Paper. Asbestos	S. Tingley	310,334	Jan. 6	240	65	30	45
Paper bag	J. Arkell	325,147	Aug. 25	2366	652	32	926
Paper bag	H. P. Feister	325,922	Sept. 8	931	236	32	1195
Paper bag	W. A. Lorenz and W. H. Honiss ..	329,661	Nov. 3	315	81	33	585
Paper bag	J. P. Onderdonk	332,260	Dec. 15	1525	399	33	1225
Paper-bag former	P. Jehle	329,173	Oct. 27	2239	540	33	428
Paper-bag holder	E. T. Martin	331,512	Dec. 1	362	97	33	1063
Paper-bag machine	D. Appel	332,631	Dec. 15	2011	527	33	1370
Paper-bag machine	W. W. Cotton and A. Hewes	312,257	Feb. 17	1088	300	30	566
Paper-bag machine	W. H. Honiss	329,561	Nov. 3	190	51	33	541
Paper-bag machine	F. W. Leinbach, C. A. Wolfe, and E. H. Brunner. }	327,280	Sept. 29	2783	723	32	1551
Paper-bag machine	W. A. Lorenz and W. H. Honiss ..	331,721	Dec. 1	712	176	33	1124
Paper-bag machine	W. A. Lorenz and W. H. Honiss ..	331,722	Dec. 1	714	177	33	1124
Paper-bag machine	W. A. Lorenz and W. H. Honiss ..	331,723	Dec. 1	730	179	33	1125
Paper-bag machine	B. F. Sawyer	326,592	Sept. 22	1816	477	32	1373
Paper-bag machine	J. West	324,620	Aug. 18	1657	457	32	846
Paper bags. Folding and pasting machine for forming cornucopia }	J. N. Chadsey	322,459	Oct. 20	1946	323	33	943
Paper bags. Forming packages of	W. M. Hunt	328,888	Oct. 20	1813	479	33	346
Paper bags. Machinery for making satchel-bottom ..	W. C. Cross	325,059	Aug. 25	2256	620	32	963
Paper bags. Making	J. Arkell	325,148	Aug. 25	2368	652	32	926
Paper bags. Making	J. P. Onderdonk	318,016	May 19	1465	392	31	809
Paper bags. Manufacture of	W. A. Lorenz	329,662	Nov. 3	317	81	33	585
Paper-board drier	E. Andrews	314,640	Mar. 31	2169	575	30	1214
Paper box	C. M. Arthur	310,341	Jan. 6	99	27	30	21
Paper box	C. M. Arthur. (Reissue.)	10,614	June 16	2074	544	31	1440

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr & C.	Vol.	Page.
Paper box.	R. W. Betts	327,224	Sept. 29	2713	706	32	1540
Paper box.	C. S. Bird	326,137	Sept. 29	2338	612	32	1472
Paper box.	F. P. Birley	321,181	June 30	3021	800	31	1630
Paper box.	R. Brotz	329,134	Oct. 27	2189	568	33	419
Paper box.	R. P. Brown and E. L. Bailey	327,779	Sept. 29	2921	762	32	1574
Paper box.	J. P. Buckingham	320,331	June 16	1886	496	31	1405
Paper box.	A. S. Coffin	317,076	May 19	1411	379	31	799
Paper box.	C. F. Hatch	328,485	Oct. 20	1275	331	33	248
Paper box.	J. Heron	312,551	Feb. 24	1897	519	30	723
Paper box.	D. Heaton	315,283	Apr. 7	418	104	31	76
Paper box.	A. G. Hohenstein	329,558	Nov. 3	187	50	33	541
Paper box.	A. G. Hohenstein	329,559	Nov. 3	187	50	33	541
Paper box.	H. A. House	327,555	Oct. 6	72	16	33	14
Paper box.	W. B. Howe	329,692	Nov. 3	190	51	33	541
Paper box.	G. L. Jaeger	324,114	Aug. 11	954	263	32	708
Paper box.	G. L. Jaeger	332,335	Dec. 15	1885	492	33	1346
Paper box.	C. L. Lockwood	331,000	Dec. 8	890	209	33	1152
Paper box.	L. Lybrand	310,899	Jan. 13	567	157	30	115
Paper box.	R. S. Merrill	325,558	Sept. 8	733	183	32	1157
Paper box.	B. Osborn	333,446	Dec. 29	2823	754	33	1540
Paper box.	D. E. Powers	324,888	Aug. 18	1604	442	32	837
Paper box.	J. A. Scott	332,551	Dec. 22	2460	651	33	1460
Paper box.	D. M. Smith	323,773	Sept. 8	754	189	32	1161
Paper box.	T. S. West	315,554	Apr. 7	652	168	31	116
Paper-box-covering machine.	P. Hauck	330,335	Nov. 10	1085	287	33	720
Paper-box-covering machines. Adjustable box-block for	P. Hauck	332,078	Dec. 8	1234	322	33	1227
Paper box. Folding	C. W. Elliott	313,190	Mar. 3	227	56	30	818
Paper box. Folding	I. Tahl	331,568	Dec. 1	450	117	33	1078
Paper box. Knockdown	J. C. Bauer	326,705	Sept. 22	1980	520	32	1402
Paper-box machine.	B. E. Becker	315,461	Apr. 14	667	173	31	125
Paper-box machine	F. Schoettle	326,338	Sept. 15	1504	392	32	1308
Paper box or pail	I. W. Hollett	317,997	May 19	1439	386	31	804
Paper boxes. Die for making	C. T. Remus	329,080	Oct. 27	2118	548	33	406
Paper boxes. Making	I. W. Hallett	332,713	Dec. 22	2147	567	33	1400
Paper boxes. Making	M. Young	332,983	Dec. 22	2499	661	33	1466
Paper. Cabinet for sanitary toilet	J. T. Hoyt	333,073	Dec. 22	2632	690	33	1489
Paper-calendering machine.	M. Solinger	319,634	June 9	906	239	31	1224
Paper-calendering rolls	J. H. Beale	328,639	Oct. 20	1500	390	33	287
Paper. Carbonizing	S. E. Trott	319,353	June 2	508	139	31	1145
Paper-clip.	I. W. Heysinger	327,553	Oct. 6	69	15	33	14
Paper-clip.	H. C. Yeiser	314,769	Mar. 31	2359	624	30	1267
Paper clip or file	C. D. Crane	322,913	July 28	2039	538	32	394
Paper-clip. Upright	I. W. Heysinger	327,440	Sept. 29	2995	783	32	1588
Paper. Coloring, embellishing, and discharging color in the manufacture of	I. and M. J. Ellis	330,215	Nov. 10	1062	277	33	715
Paper. Composition of matter for waterproofing	C. S. Bird	332,868	Dec. 22	2352	690	33	1438
Paper cuffs. Manufacture of	A. K. Merrill	324,267	Aug. 11	1179	320	32	749
Paper-cutter	A. D. Hoffman	310,513	Jan. 6	444	122	30	86
Paper cutter and stamp. Combined	A. Brown	327,998	Oct. 13	637	168	33	122
Paper-cutter. Mechanism for laying off sheets from a	L. Harlow and G. Parker	313,684	Mar. 17	1130	294	30	1004
Paper-cutting machine	C. S. Barton	317,612	May 12	925	237	31	698
Paper-cutting machine	H. P. Feister	319,473	June 9	660	183	31	1183
Paper-cutting machine	W. G. Finlay	326,859	Sept. 22	2227	581	32	1445
Paper-cutting machine	L. W. Morse, Jr.	326,916	Sept. 22	2303	603	32	1458
Paper-cutting machine	H. C. Spalding	327,471	Sept. 29	3031	791	32	1594
Paper-cutting machine	S. Whitlock	326,002	Sept. 8	1037	264	32	1213
Paper-cutting machines. Clutch for	E. P. Donnell	313,422	Mar. 10	618	161	30	900
Paper-cutting machines. Slitter-shaft for	E. H. Bridgman	325,812	Sept. 8	805	202	32	1170
Paper. Device for holding writing	P. E. De Mill, Jr.	329,291	Oct. 27	2411	625	33	461
Paper drum and barrel drier	G. W. Laraway	311,499	Feb. 3	53	15	30	359
Paper-drying cylinders, &c. Steam-pipe-joint for rotary	M. J. Roach	325,972	Sept. 8	996	254	32	1206
Paper fabric. Re-enforced	J. H. Beale	320,614	June 23	2290	604	31	1428
Paper-feeding machine	J. C. Kneeland	326,124	Sept. 15	1196	305	32	1250
Paper-feeding machine	R. J. Stuart	319,431	June 2	613	167	31	1165
Paper-feeding machine	R. J. Stuart	327,617	Oct. 6	154	37	33	28
Paper. Filtering	E. W. Carter	324,750	Aug. 18	1828	505	32	879
Paper-folding machine	L. P. Brault	323,558	Aug. 4	232	68	32	564
Paper-folding machine	T. C. Dexter	324,926	Aug. 25	2080	569	32	932
Paper-folding machine	T. C. Dexter	332,331	Dec. 15	1589	417	33	1296
Paper-folding machine	W. Downing	330,777	Nov. 17	1795	483	33	863
Paper-folding machine	J. T. Hawkins	332,520	Dec. 15	1858	486	33	1342
Paper-folding machine	C. F. and J. L. Hirt	330,485	Nov. 17	1429	382	33	793
Paper-folding machine	J. Kurten	326,910	Sept. 22	2296	601	32	1457
Paper-folding machine	E. Prouty	327,965	Oct. 6	596	155	33	107
Paper-folding machine	G. Reznor	326,785	Sept. 22	2119	551	32	1425
Paper-folding machine	F. H. Smith	331,832	Dec. 8	871	224	33	1161
Paper-folding machine	F. Von Martini	316,314	Apr. 21	1833	483	31	345
Paper-folding machines. Pasting attachment for	J. H. Stonemetz	325,023	Aug. 25	2210	606	32	956
Paper-folding machines. Sheet-switching device for	T. C. Dexter	332,332	Dec. 15	1590	417	33	1296

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Paper-folding machines. Trimming device for	J. H. Stonemetz	320,891	June 23	2635	697	31	1354
Paper-folding mechanism	A. F. Madden	324,034	Aug. 11	843	234 235	32	68
Paper for checks, &c. Manufacturing safety-	G. Schrelber	322,130	July 14	987		32	188
Paper for checks, &c. Manufacturing safety-	G. Schrelber	322,131	July 14	988		32	189
Paper for checks, drafts, &c. Safety-	F. M. Hill	330,894	Nov. 24	1951		33	900
Paper for cigarettes. Manufacture of reticulated. ..	E. Abadie	314,639	Mar. 31	2167	575	30	1231
Paper for roofing-felt, &c.	C. W. Armour	311,938	Feb. 10	640	175	30	476
Paper for sheathing, &c.	C. W. Armour	311,939	Feb. 10	641	176	30	476
Paper-hanging implement	O. L. Case	314,798	Mar. 31	2399	635	30	1274
Paper-holder	C. E. Osgood and L. F. Longmore ..	320,956	June 30	2722	723	31	1576
Paper-holder	R. White	325,139	Aug. 25	2357	649	32	964
Paper holder and cutter	C. C. Johnson	316,368	Apr. 21	1908	504	31	352
Paper holder and cutter	E. Morrison and J. P. Herron	329,200	Oct. 27	2283	591 592	33	436
Paper holder or file	T. F. Bourne	312,702	Feb. 24	1697	467	30	688
Paper holder. Ornamental and fly	V. G. Tansey	317,241	May 5	423	106	31	800
Paper holder. Toilet	C. C. Johnson	328,409	Oct. 13	1184	307	33	284
Paper holder. Toilet	A. A. Myers	320,576	June 23	2229	591	31	1477
Paper-holder. Water-closet	C. S. Blackman	316,228	Apr. 21	1722	452	31	326
Paper in rolls. Protecting	M. Fitzgibbons	319,969	June 16	1372	360	31	1314
Paper keg or barrel	J. Cosgrove	322,911	July 28	2033	537	32	393
Paper keg or cask	C. H. Wickersham	324,906	Aug. 25	2058	563	33	992
Paper lifter. Adhesive-	A. Spitzli	317,234	May 5	414	104	31	589
Paper. Machine for cutting sheets with oblique edges from webs of	J. Ball	311,559	Feb. 3	139	39	30	375
Paper. Machine for dampening webs of printing- ..	G. Rosquist	311,261	Jan. 27	1472	403 403	30	291
Paper. Machine for winding up	G. E. Jones. (Reissue)	10,611	June 16	2068	543	31	1439
Paper-machine stuff-regulator	C. Young	312,314	Feb. 17	1174	392	30	592
Paper-machines. Automatic steam-regulator for ..	R. Smith	324,601	Aug. 18	1620	446	32	840
Paper-machines. Machine for preparing pulp for ..	W. Umpherson. (Reissue)	10,658	Nov. 3	613	156	33	619
Paper-machines. Suction-box for	W. A. Fletcher and W. E. Keightley ..	325,165	Aug. 25	2326	657	32	998
Paper-maker's cotton drying-felt, printer's machine-blanket, &c.	J. Crossley	313,994	Mar. 17	1306		30	1037
Paper-makers' use. Manufacture of an aluminous sizing material for	R. A. Fisher	321,094	June 30	2917		31	1611
Paper-makers' use. Manufacture of sizing for	R. A. Fisher	321,097	June 30	2922		31	1611
Paper-makers' use. Manufacture of sizing material for ..	R. A. Fisher	321,095	June 30	2919		31	1611
Paper-makers' use. Manufacture of sizing material for ..	R. A. Fisher	321,098	June 30	2923		31	1612
Paper-makers' use. Neutral sizing material for	R. A. Fisher	321,092	June 30	2913		31	1611
Paper-makers' use. Neutral sizing material for	R. A. Fisher	321,093	June 30	2915		31	1611
Paper-makers' use. Obtaining hydrate of alumina from bauxite, &c., for ..	G. F. Bihn	331,182	Nov. 24	2334		33	971
Paper-makers' use. Preparation of mineral filling for ..	Z. C. Warren	318,063	May 19	1596	409	31	819
Paper-making machine	W. Lelshman	318,378	May 19	1943	524	31	896
Paper-making machine	J. T. F. MacDonnell	320,372	June 16	1962	516	31	1420
Paper-making machines. Dandy-roll for	F. C. Plume	319,616	June 9	884	924	31	532
Paper-making machines. Dandy-roll for	C. Smith	329,601	Nov. 3	244	63	33	532
Paper-making machines. Felt-whipper for	W. A. Philpott, Jr	321,312	June 30	3181	848	31	1661
Paper-making machines. Pulp-vat for	J. F. Seiberling	312,390	Feb. 17	1274	362	30	601
Paper-making machines. Screen-plate or pulp-strainer for	F. Williams	313,037	Feb. 24	2143	563	30	767
Paper-making machines. Suction-box for	H. A. Barber	316,221	Apr. 21	1714	450	31	324
Paper-making machines. Vat for	J. F. Seiberling	323,079	July 28	2275	602	32	437
Paper-making. Making dandy-rolls for	F. C. Plume	319,615	June 9	883	924	31	530
Paper, &c. Making moldings, &c., from	B. Butz and O. J. Pfeueger	311,409	Jan. 27	1663	459	30	330
Paper-making. Pulp-digester for	E. Ritter and C. Kellner	329,217	Oct. 27	2309	598	33	441
Paper. Manufacture of blotting	C. S. Murch	323,146	Dec. 29	2746	721	33	1515
✓ Paper, &c. Manufacture of fiber for	A. E. Newman	318,433	May 19	2014		31	910
✓ Paper. Manufacture of tarred	M. Ehret, Jr	312,451	Feb. 17	1361	375	30	619
Paper matrices. Apparatus for drying	J. Brooks	330,091	Nov. 10	911	236	33	625
Paper-matrix drier	E. Stosch	324,496	Aug. 18	1485	407	32	813
Paper. Method of and apparatus for coloring	L. Plette	318,652	May 26	2307	617	31	972
Paper-numbering machine	J. R. Carter	329,715	Nov. 3	390	100	33	579
✓ Paper or leatheroid. Manufacture of parchment ..	E. Andrews	312,945	Feb. 24	2013	550	30	744
✓ Paper or wood pulp. Manufacture of cartridge-shells and other receptacles from ..	G. M. Peters	321,649	July 7	614	158	32	112
Paper package	L. H. Thomas	331,842	Dec. 8	888	930	33	1165
Paper package-box	T. Schmidt. (Reissue)	10,607	June 2	629	169	31	1162
Paper package for toilet and other purposes	O. H. Hicks	329,039	Oct. 27	2054	533	33	366
Paper. Package of sanitary or toilet	J. T. Hoyt	323,074	Dec. 22	2634	690	33	1469
Paper pails, &c. Machine for making	W. S. McKinney	328,328	Oct. 13	1057	274 275	33	200
Paper pails. Machine for pressing the bodies of ..	H. W. Leonard and J. Stevens	316,985	May 5	71	19	31	536
Paper. Photographic sensitive	T. C. Roche	328,431	Oct. 13	1211	313	33	229
Paper. Polishing	R. J. White	332,028	Dec. 8	1164		33	1214
Paper. Preparation of paraffine or wax	E. G. Sparks	326,687	Sept. 22	1956	514	32	1497
Paper. Preserving and waterproofing	C. A. Maxfield. (Reissue)	10,618	June 30	3320		31	1666
Paper-pulp and bleached or unbleached textile fabric. Cold process of manufacturing ..	H. Vossier and A. Wilbaux	323,378	July 28	2699	712	32	513
Paper-pulp. Apparatus for beating and manipulating ..	J. Jordan	314,248	Mar. 24	1631	431	30	1106
Paper-pulp, &c. Bleaching	J. B. Fessy	311,425	Jan. 27	1709	465	30	334
Paper-pulp boiler	J. F. Marshall	312,875	Feb. 24	1934	520	30	729
Paper-pulp digester	C. Bremaker and M. Zier, Sr	333,105	Dec. 29	2686	704 705	33	1505
Paper-pulp-digester valve	T. Atcheson	314,643	Mar. 31	2172	576	30	1231
Paper-pulp engines. Bed-plate for	F. S. Taylor	320,721	June 23	2420	641	31	1513
Paper-pulp engines. Roll for	J. H. Horne	310,203	Jan. 6	57	16	30	13

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Paper-pulp fabric for boxes, &c.	J. A. Pease and G. J. Babson	314,054	Mar. 17	1381	360	30	1051
Paper-pulp from wooden blocks. Making	G. F. Cushman	329,370	Oct. 27	2537		33	492
Paper-pulp. Machine for forming hollow ware from.	J. G. Bodge	319,182	June 2	300	80	31	1103
Paper-pulp. Manufacture of	S. M. Allen	323,771	Aug. 4	510		32	618
Paper-pulp. Manufacture of cartridge-shells and other receptacles from	G. M. Peters	321,848	July 7	612	158	32	111
Paper pulp or stock and obtaining by-products therefrom. Treatment of yucca or sotol fiber for the production of	G. B. Walker	310,753	Jan. 13	759		30	150
Paper-pulp pails, &c. Calendering-machine for	H. W. Leonard and J. Stevens	316,984	May 5	69	18	31	535
Paper-pulp screen	F. X. Black	316,938	May 5	11	3	31	525
X Paper-pulp. Treating vegetable fiber for manufacture of	D. Minthorn	319,295	June 2	437		31	1131
X Paper-pulp. Treating vegetable substances for making	T. G. Young and J. Pettigrew	322,882	July 21	1993		32	379
Paper-punching press	C. A. Lieb	329,323	Oct. 27	2457	636	33	469
Paper shoe	T. C. Lord	311,018	Jan. 20	1119	305	30	221
Paper. Sizing material to be used in the manufacture of	R. A. Fisher	321,096	June 30	2920		31	1611
Paper-smoothing compound	C. Walpuski	313,263	Mar. 3	333		30	837
Paper, &c. Staining	M. B. Martin	321,234	June 30	3087		31	1642
Paper-stock. Apparatus for bleaching	A. W. Wilson	322,665	July 21	1689	448	32	323
Paper-stock boilers. Screen or strainer for the blow-off of	B. F. Mullin	313,011	Feb. 24	2112	575	30	762
Paper-stock drainer	W. Gray	318,180	May 19	1673	449	31	848
Paper-stock drainer	W. Gray	325,206	Aug. 25	2448	673	32	1000
X Paper, straw, or paste board. Composition of matter for coating boxes made from	D. Pepper	333,330	Dec. 29	2998		33	1561
Paper through calender-rolls. Pneumatic device for leading	R. Smith	327,031	Sept. 29	2453	641	32	1493
X Paper to preserve it against the corrosive action of acids. Treating	I. Ramsdell	313,107	Mar. 3	92		30	794
Paper. Transfer or reproducing	D. Gestetner	332,890	Dec. 22	2379	629	33	1443
Paper tubes. Machine for cutting	M. F. Wilson	310,629	Jan. 13	601	105	30	120
Paper tubes. Machine for sizing	A. Dickerman	316,129	Apr. 21	1604	419	31	304
Paper. Waxing	J. Jowitt	318,911	May 26	2657	704	31	1035
Paper. Waxing	E. G. Sparks	326,689	Sept. 22	1959	515	32	1398
Paper webs into rolls. Apparatus for winding	J. J. Manning	320,375	June 16	1967	517	31	1421
Paper-weight and guide-rule	C. E. Babbitt	321,672	July 7	351	93	32	66
Paper. Wrapping and toilet	S. Wheeler	323,183	Dec. 29	2794	732	33	1523
Paper wreath	C. Kaufmann	315,795	Apr. 14	1138	298	31	213
Paraffine from oils. Apparatus for extracting	C. H. Prentiss	316,058	Apr. 21	1493	390	31	234
Paraffine from oils. Apparatus for extracting	R. A. Williams and J. Bragg	317,060	May 5	167	43	31	553
Parasol	W. A. Drown	333,062	Dec. 22	2616	686	33	1453
Parcel-carrier	L. A. Smith	322,329	July 14	1229	323	32	234
Parcel-carrier	G. W. Thomas	323,233	July 28	2488	661	32	478
Parcel-transmitter for stores	D. M. Skinner	322,565	July 21	1566	413	32	300
Parer. Apple	J. Bittenbender	325,903	Sept. 8	908	229	32	1190
Parer. Apple	D. H. Goodell	310,196	Jan. 6	49	14	30	12
Parer. Apple	J. L. Wilcox	321,667	July 7	341	90, 91	32	95
Parer, slicer, and corer. Apple	J. B. Tupper	329,511	Nov. 3	115	30	33	537
Paring and coring machine. Apple	F. Clingman	329,363	Oct. 27	2525	650	33	490
Paring and slicing machine. Apple	W. T. Elliott	315,752	Apr. 14	1082	284	31	203
Paring and slicing device	P. Schwarzenhoelzer	323,451	Aug. 4	87	25	32	538
Paring machine. Apple	C. E. Hudson	319,905	June 9	1276	336	31	1289
Paring machine. Apple	L. H. Scott	319,332	June 2	486	131	31	1140
Paring machine. Fruit	W. A. C. Oaks	315,158	Apr. 7	237	58	31	43
Paring machine. Fruit	W. and C. S. Robb	313,532	Mar. 10	678	177	30	912
Paring machine. Peach	L. H. Scott	331,451	Dec. 1	280	76	33	1048
Partition and ceiling. Fire-proof	C. Mettan	312,284	Feb. 17	1138	312	30	575
Passenger-recorder	A. Torrey and D. J. Casey	315,355	Apr. 7	509	130	31	92
Passenger-register	R. W. Flack	331,784	Dec. 8	802	203	33	1149
Paste. Apparatus for making	O. Nichols	331,647	Dec. 1	607	150	33	1104
Paste-holder	P. Weiss	315,195	Apr. 7	304	73	31	54
Paste. Making	O. Nichols	331,648	Dec. 1	608	150	33	1104
Pastry-board	W. T. Black	331,029	Nov. 24	2121	574	33	932
Pattern:							
See Vest-pattern.							
Pattern and fabric. Combined	S. M. Moschowitz	327,961	Oct. 6	588	153	33	106
Pattern for drafting dresses. Adjustable	A. McDowell	310,297	Jan. 6	180	50, 51	30	35
Pattern for drafting garments. Adjustable	M. Jacobsen	324,472	Aug. 18	1451	396	32	807
Pattern-making machine	C. Tourigne	317,687	May 12	1016	264	31	715
Patterns. Machine for grading	J. J. Breach	318,539	May 26	2155	580	31	946
Patty-pan	J. Chaumont	312,189	Feb. 10	1000	273	30	541
Pavement	E. Heylyn	311,579	Feb. 3	162	46	30	379
Pavement	H. C. Underwood	321,403	June 30	3305	882	31	1684
Pavement. Artificial-stone	J. Grant	319,575	June 9	822	218	31	1208
Pavement. Concrete	J. Grant	330,110	Nov. 10	931	242	33	689
Pavement. Concrete	C. F. Rapp	312,897	Feb. 24	1953	534	30	733
Pavement for streets and sidewalks and mold for constructing the same. Block-	H. G. Fiske	316,450	Apr. 28	2042	535	31	387
Pavement. Manufacture of composite.	J. P. Scott	318,043	May 19	1501	536	31	815
Pavement. Street	K. Kühn	311,994	Feb. 10	726	199	30	490
Pavement. Terra-cotta	J. M. Freeman	310,662	Jan. 13	641	177	30	128
Pavements. Construction of	S. W. Cragg	315,740	Apr. 14	1063	279	31	189
Pavements, &c. Process of making and composition for	J. E. Wynkoop	325,718	Sept. 8	679		32	1147
Pavements, &c. Stamping margins for	C. Sutton	312,225	Feb. 10	1045	286	30	549
Paving and other blocks. Mold-box for	J. Eisenhower	312,829	Feb. 24	1871	512	30	719
Paving-block	A. T. Elford	329,825	Nov. 3	545	138	33	606
Paving-block	H. G. Fiske	317,108	May 5	232	58	31	566

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Paving-block	W. C. and E. F. Murdock	316,166	Apr. 21	1649	{ 431 432 }	{ 31 31 }	313
Paving-blocks for streets	F. J. Hoyt	312,639	Feb. 24	1613	443	30	673
Paving blocks or bricks. Composition for curing	T. A. Huguenin	313,823	Mar. 10	1064	.....	30	983
Paving. Manufacturing asphaltic powder suitable for	H. Kettmann	310,594	Jan. 13	560	.....	30	113
Paving or building blocks. Machine for making	A. Ward	328,551	Oct. 20	1368	357	33	284
Paving sidewalks	J. H. Duke, Jr.	390,858	June 23	2588	685	31	1546
Pawl-and-ratchet mechanism	W. Scott	330,931	Nov. 24	2005	541	33	910
Pawl-and-ratchet mechanism. Stop and lock for	J. N. Williams	312,942	Feb. 24	2009	549	30	743
Pea and oat separator. Wild	J. M. King	325,093	Aug. 25	2301	633	32	974
Pea-sheller	G. W. Fisher	326,026	Sept. 8	1069	272	32	1230
Peach-pitter	O. H. P. Brown	317,966	May 19	1401	376	31	797
Peach-stoner	C. Hardgrave	328,776	Oct. 20	1684	434	33	319
Peanut and coffee roaster	G. W. Harris	317,348	May 5	572	146	31	628
Peanut-cleaner	L. R. Edwards	312,617	Feb. 24	1585	434	30	668
Peanut-cleaner	J. Johnson	311,494	Feb. 3	46	13, 14	30	358
Peanut-cleaner	J. Johnson	311,495	Feb. 3	47	14	30	358
Peanut cleaner and grader	J. Johnson	315,793	Apr. 14	1135	{ 297 298 }	{ 31 31 }	213
Peanut-roaster	T. Lee	320,804	June 23	2519	667	31	1532
Peanut-roaster	T. Lee	333,351	Dec. 15	1616	434	33	1301
Peanut-stripping machine	C. T. Walker	319,762	June 9	1065	283	31	1253
Peanuts, &c. Machine for assorting	C. J. Syme	314,749	Mar. 31	2304	612	30	1256
Peanuts, &c. Machine for shelling and grading	J. J. Hill	328,032	Oct. 13	853	180	33	131
Peanuts. Machine for separating	A. W. Ballard	311,712	Feb. 3	327	90	30	410
Pedomotor-treadle	G. J. Taylor	325,085	July 28	2287	605	32	439
Pelts. Machine for plucking	J. W. Sutton	322,137	July 14	999	280	32	190
Pen	J. S. Bard	318,679	May 26	2344	636	31	979
Pen	L. Loeser	331,203	Nov. 24	2366	640	33	977
Pen and pencil case	W. G. Dinkelmeier	329,541	Nov. 3	165	43	33	537
Pen and pencil holder	A. Carter	312,812	Feb. 24	1843	506	30	714
Pen and pencil holder	F. G. Davison	325,060	Aug. 25	2259	620	32	966
Pen and pencil holder	E. Wiley	327,044	Sept. 29	2473	646	32	1496
Pen and pencil holder. Pocket	F. G. Davison	317,319	May 5	532	135	31	621
Pen for live stock	B. Dawson	327,665	Oct. 6	226	56	33	40
Pen. Fountain	J. Blair	324,454	Oct. 20	1242	322	33	242
Pen. Fountain	L. W. Fairchild	325,663	Sept. 8	597	151	32	1133
Pen. Fountain	J. B. Hoyt and F. S. Bartram	325,211	Aug. 25	2456	676	32	1002
Pen. Fountain	F. Juliusberger	331,794	Dec. 8	814	207	33	1151
Pen. Fountain	W. W. Stewart	314,547	Mar. 24	2040	544	30	1180
Pen. Fountain	C. W. Taylor	320,509	June 23	2146	566	31	1462
Pen. Fountain	E. Tyrrell	311,861	Feb. 3	517	140	30	445
Pen. Fountain	P. E. Wirt	311,554	Feb. 3	133	38	30	374
Pen. Fountain	P. E. Wirt	328,169	Oct. 13	862	224	33	163
Pen. Fountain	P. E. Wirt	330,358	Nov. 10	1253	334	33	753
Pen fountain attachment	E. A. Brandenburg	333,104	Dec. 29	2685	704	33	1505
Pen fountain attachment	J. W. Drewett	318,706	May 26	2378	634	31	966
Pen-holder	G. H. Allen	311,556	Feb. 3	137	39	30	374
Pen-holder	J. H. Anderson	310,771	Jan. 13	786	212	30	154
Pen-holder	H. F. Atwood and E. Wallis, Jr.	327,642	Oct. 6	190	47	33	34
Pen-holder	E. C. Burrows	318,231	May 19	1745	466	31	861
Pen-holder	J. M. Clapp	332,880	Dec. 22	2368	626	33	1441
Pen-holder	R. C. Fay	325,921	Sept. 8	930	235	32	1195
Pen-holder	J. Felbel	330,881	Nov. 24	1334	524	33	897
Pen-holder	O. F. Seibold	320,299	June 16	1920	484	31	1394
Pen-holder cap	R. W. Parker	316,815	Apr. 22	2538	663	31	480
Pen-holder. Double	C. R. Arnold	310,168	Jan. 6	10	3	30	5
Pen. Stylographic	C. Stockmann	330,636	Nov. 17	1610	431	33	898
Pen wiper and holder	I. W. Allyn	331,270	Dec. 1	2	1	33	1001
Pens, pencils, &c. Adjustable holder for	F. L. Fischer	311,181	Jan. 27	1359	372	30	971
Pencil	J. Hoffman	326,502	Sept. 15	1699	443	32	1343
Pencil	J. Hoffman	331,308	Dec. 1	901	53	33	1034
Pencil	O. Mussinan, Jr.	317,638	May 12	1219	323	31	755
Pencil and crayon holder	C. W. Boman	321,786	July 7	513	136	39	95
Pencil and rule pocket	J. W. Hunt and J. Bressler	318,115	May 19	1593	425	31	633
Pencil and scissors holder. Combined	R. Thompson	328,866	Oct. 20	1777	463	33	339
Pencil. Artificial slate	S. Kraus	316,374	Apr. 21	1917	.....	31	360
Pencil-case	J. Dicker	325,325	Sept. 1	137	36	38	1039
Pencil-case	C. E. Little	331,896	Dec. 8	965	240	33	1179
Pencil case and sharpener	G. A. Wilbur	326,697	Sept. 22	1970	517	32	1400
Pencil-clasp	R. P. Scott	312,296	Feb. 17	1154	315	30	578
Pencil compass attachment	C. W. Stuart	322,885	July 21	1964	530	32	373
Pencil-holder	B. F. Eshelman	328,767	Oct. 20	1653	431	33	317
Pencil-holder	B. H. Shelden	311,613	Feb. 3	206	58	30	387
Pencil-holder	K. Strössenreuther	330,526	Nov. 17	1482	396	33	863
Pencil-holder	J. C. Wilkes	320,828	June 23	2547	675	31	1536
Pencil-holder and slate-cleaner	C. O. Patterson	311,361	Jan. 27	1631	443	30	318
Pencil-leads and crayons. Composition for	C. Walpuski	328,366	Oct. 13	1114	.....	33	811
Pencil or crayon holder	F. Froescheis	324,761	Aug. 18	1854	510	32	883
Pencil or crayon holder	J. Hoffman	326,736	Sept. 22	2051	534	32	1414
Pencil or crayon holder	J. Hoffman	326,737	Sept. 22	2054	534	32	1414
Pencil or crayon holder	M. Rubin	316,402	Apr. 21	1956	516	31	367
Pencil or crayon holder	C. Walpuski	324,504	Aug. 18	1501	411	32	816
Pencil-sharpener	J. W. Alexander	324,798	Aug. 25	1911	526	32	909
Pencil-sharpener	E. Fitch	328,473	Oct. 20	1292	328	33	945
Pencil-sharpener	S. Forrester	332,146	Dec. 8	1342	348	33	1245
Pencil-sharpener	A. Hatch	328,671	Oct. 20	1543	401	33	285
Pencil-sharpener	G. C. and W. C. Price	329,486	Nov. 3	83	22	33	521
Pencil-sharpener	H. White	318,404	May 19	1977	532	31	904
Pencil-sharpener	S. S. Woodcock	323,769	Aug. 4	508	143	32	618
Pencil-sharpener. Slate	J. R. Baker and J. Craig	330,666	Nov. 17	1648	443	33	837
Pencil-sharpener. Slate	J. Putnam	324,787	Aug. 18	1885	518	32	889
Pencil-sharpener. Slate	H. Scott	328,256	Oct. 13	968	252	33	184

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dis.	Vol.	Page.
Pencil-sharpening machine	W. H. Lamson	317,550	May 12	840	216	31	683
Pencil tip and tape-measure. Combined lead	I. B. Millner	310,840	Jan. 13	866	235	30	170
Pencils. Colored lead for	S. Kraus	316,373	Apr. 21	1916		31	359
Pencils. Sponge-holder for slate	W. H. Shaw	317,036	May 5	126	32	31	545
Pendulum. Compensating	A. Maille	315,537	Apr. 14	766	203	31	143
Pendulum. Electric impulse device for a torsion	H. Rabe	325,113	Aug. 25	2323	639	32	979
Pendulum-regulator	J. Ganss	322,097	July 14	942	244	32	180
Pepsin. Peptone	M. B. Manwaring	327,567	Oct. 6	85		33	16
Perforating-machine	A. G. Burton	323,295	July 28	2570	684 685 686	32	492
Perforating-machine	A. G. Burton. (Reissue)	10,652	Oct. 20	1846	482 483	33	352
Perforating-machine	J. E. Munson	332,419	Dec. 15	1715	449 450	33	1317
Perforating-machine	E. B. Stimpson	313,383	Mar. 3	481	126	30	866
Perforator. Electrical	J. E. Munson	328,600	Oct. 20	1436	374 375	33	277
Perfumer	W. H. Birge	331,937	Dec. 8	1029	967	33	1192
Permanganates. Manufacturing	T. Kempf	326,657	Sept. 22	1913		32	1389
Permutation-lock	M. A. Dalton	329,830	Nov. 3	531	136 137	33	605
Permutation-lock	H. Gross	318,982	June 2	70	18	31	1061
Permutation-lock	C. Hill	310,892	Jan. 20	933	254	30	188
Permutation-lock	W. E. Malley	330,137	Nov. 10	970	253	33	697
Pessary	S. Simpson, F. M. Lottridge, and W. Carter	312,064	Feb. 24	1646	453	30	680
Pessary	M. M. Warmoth	328,553	Oct. 20	1371	357	33	264
Petroleum-burner	E. B. De La Matyr	316,950	May 5	26	8	31	528
Petroleum-burner	E. B. De La Matyr	330,212	Nov. 10	1059	276 277	33	715
Petroleum heating apparatus	R. Schulz	331,161	Nov. 24	2307	625	33	966
Petroleum. Purifying	J. H. Tiemann	330,637	Nov. 17	1611		33	828
Petroleum. Refining	J. H. Tiemann	321,465	July 7	79		32	16
Petticoat	C. D. Cuper	319,060	June 16	1357	356	31	1311
Pew. Church	I. Lancaster	326,571	Sept. 22	1789	470	32	1368
Pew-guard	M. E. O'Connor	331,533	Dec. 1	385	106	33	1069
Phosphates. Solution of acid	C. V. Petreous	313,369	Mar. 3	466		30	863
Phosphatic slag. Treating	C. Scheibler	312,904	Feb. 24	1962		30	735
Photo-engraving. Preparing pictures and photographs for	R. Brown, R. W. Barnes, and J. Bell	311,037	Jan. 20	1175		30	232
Photo-rilievos. Producing	L. H. Philippi	321,244	June 30	3098		31	1644
Photograph-burnisher	C. Dorey	312,337	Feb. 17	1207	332	30	588
Photograph-burnishing machine	M. T. Baldwin	311,463	Feb. 3	4	2	30	349
Photograph-burnishing machine	W. G. Entekin	327,778	Oct. 6	356	92	33	63
Photograph-exhibitor	E. Kirschner	322,111	July 14	963	250	32	184
Photographs. Apparatus for developing and washing	H. F. Witmer	331,068	Dec. 1	637	157	33	1109
Photographs in permanent pigments. Producing	W. W. Sherman	332,364	Dec. 15	1643		33	1305
Photographer's chair. Child's	O. C. White	326,184	Sept. 15	1291	334	32	1267
Photographers. Portable dark-room for	W. W. Walker	312,937	Feb. 24	2003	547	30	742
Photographic apparatus	J. K. Beach	319,069	June 9	944	250	31	1231
Photographic apparatus	H. Correja	318,701	May 26	2371	633	31	954
Photographic camera	G. B. Brainerd	331,677	Dec. 1	654	161 162	33	1113
Photographic camera	W. Clark	314,317	Mar. 24	1730	460 461	30	1125
Photographic camera	M. Flammang	328,064	Oct. 20	1533	399	33	293
Photographic camera	H. V. and H. V. Parsell, Jr.	316,647	Apr. 28	2266	600 601	31	434
Photographic camera	G. H. Ripley	331,448	Dec. 1	276	75	33	1048
Photographic camera	F. Roussel	324,489	Aug. 18	1474	404	32	811
Photographic camera	T. Samuels	321,139	June 30	2969	786	31	1620
Photographic-camera attachment	L. T. Young	317,915	May 12	1321	354	31	774
Photographic-camera shutter	W. C. Hadden	331,494	Dec. 1	338	91, 92	33	1058
Photographic-camera shutter	C. Prosch	312,581	Feb. 17	1542	420	30	651
Photographic cameras. Combined shutter and diaphragm for	D. C. Hoover	317,788	May 12	1148	304	31	741
Photographic dry-plates. Shipping-case for	J. H. Durham	331,385	Dec. 1	180	45	33	1030
Photographic emulsion to photographic plates. Machine for applying	E. J. Palmer	313,761	Mar. 10	985	254	30	969
Photographic-film holder	G. Eastman and W. H. Walker	316,932	May 5	30	9	31	528
Photographic films. Roller-holder for	W. A. and L. H. Bannister	316,933	May 5	4	2	31	523
Photographic films. Roller-holder for	W. H. Walker and G. Eastman	317,049	May 5	149	38, 39	31	549
Photographic films. Roller-holder for	W. H. Walker and G. Eastman	317,050	May 5	154	39	31	550
Photographic lenses. Instantaneous shutter for	A. Loeffler	313,677	Mar. 10	863	225	30	948
Photographic paper and sensitive emulsion therefor	T. C. Roche	314,346	Mar. 24	1773		30	1132
Photographic-plate box	V. M. Wilcox	330,182	Nov. 10	1024	267	33	708
Photographic-plate holder	O. M. Pausch	328,512	Oct. 20	1308	340	33	254
Photographic-plate holder	S. Russell	326,921	Sept. 22	2309	604	32	1459
Photographic plates or sheet holder	E. B. Barker	315,219	Apr. 7	341	83	31	61
Photographic plates. Apparatus for coating	B. J. Edwards	314,811	Mar. 31	2412	638	30	1277
Photographic plates. Automatic clasp and lifter for	R. E. Van Gieson	319,359	June 2	518	141	31	1146
Photographic posing-support	O. C. White	316,101	Apr. 21	1560	406	31	296
Photographic-printing apparatus	W. Hill and T. R. Wilson	319,975	June 16	1382	362 363	31	1316
Photographic-printing frame	W. H. Lewis	331,980	Dec. 8	1091	283	33	1202
Photographic sheet. Multiple	O. L. Hulbert	333,465	Dec. 29	3175	829	33	1590
Photographic shutter	C. C. Packard	316,564	Apr. 28	2178	573	31	414
Photographic washing apparatus	H. W. Oliver	323,721	Aug. 4	441	125	32	605
Photography. Apparatus for instantaneous	A. S. Barker	319,663	June 9	939	248	31	1230
Photography. Instantaneous shutter for	W. Damry and A. Leduc	330,775	Nov. 17	1792	483	33	863
Photography. Preparing surfaces for printing by	E. Kunkler and J. Brunner	333,470	Dec. 29	3181	830	33	1591
Phylloxera. Apparatus for destroying	L. Laborde	317,602	May 12	1169	310	31	745
Piano	B. B. Bradbury	328,566	Oct. 20	1386	361	33	268

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Piano.....	G. Cook.....	326,105	Sept. 15	1173	300	32	1246
Piano.....	G. Cook.....	326,106	Sept. 15	1174	300	32	1246
Piano-action.....	C. W. Brewer.....	323,632	Aug. 4	330	95	32	584
Piano-action.....	W. C. Ellis.....	316,023	Apr. 21	1449	378	31	976
Piano-action.....	F. Engelhardt.....	325,401	Sept. 1	251	63	32	1063
Piano-action.....	W. Fischer.....	321,201	June 30	3050	908	31	1636
Piano-action.....	F. Imhorst.....	332,716	Dec. 22	2151	568	33	1400
Piano-action.....	P. Menges.....	317,660	May 12	981	254	31	769
Piano-action.....	P. Menges.....	321,517	July 7	156	41, 42	32	31
Piano-action.....	C. E. Rogers.....	326,335	Sept. 15	1497	391	32	1306
Piano-action.....	F. Zech.....	330,080	Nov. 10	897	{ 232 233 }	33	682
Piano-action.....	J. Zech.....	333,047	Dec. 22	2509	681	33	1423
Piano action. Upright.....	S. Brambach.....	322,089	July 14	931	241	32	178
Piano action. Upright.....	I. Fusco.....	325,660	Sept. 8	804	153	32	1134
Piano action. Upright.....	F. Polster.....	314,195	Mar. 17	1568	414	30	1084
Piano-agraffe.....	A. Baus.....	314,310	Mar. 24	1723	458	30	1123
Piano and organ music desk.....	G. J. Couchois.....	326,020	Sept. 8	1060	270	32	1918
Piano case. Upright.....	S. G. Chickering.....	332,326	Dec. 15	1585	415	33	1295
Piano case. Upright.....	H. S. Parmelee.....	327,714	Oct. 6	283	72	33	50
Piano case. Upright.....	W. Umland.....	324,051	Aug. 11	869	240	32	691
Piano case. Upright.....	W. Umland.....	324,052	Aug. 11	870	240	32	692
Piano-cover.....	S. E. Richey.....	326,154	Sept. 15	1243	{ 318 319 }	32	1259
Piano. Dummy.....	J. Casey.....	315,724	Apr. 14	1036	272	31	194
Piano-forte.....	L. Caldera.....	315,905	Apr. 14	1291	337	31	240
Piano-forte.....	G. Cook.....	316,445	Apr. 28	2037	534	31	387
Piano-forte.....	E. Gabler.....	324,467	Aug. 18	1445	395	32	607
Piano-forte.....	P. Gmehlin.....	311,243	Jan. 27	1447	{ 394 395 }	30	287
Piano-forte damper.....	O. Wessell, A. Nickel, and R. Gross.....	312,776	Feb. 24	1797	495	30	706
Piano-forte music-rack illuminator.....	H. Ward and J. S. Utter.....	324,901	Aug. 25	2051	561	32	926
Piano-frame.....	J. Bonrny.....	322,154	July 14	1022	266	34	194
Piano-frame.....	C. F. T. Steinway.....	314,740	Mar. 31	2294	608	30	1254
Piano-frame.....	C. F. T. Steinway.....	314,742	Mar. 31	2296	{ 609 610 }	30	1254
Piano-hammer.....	M. Junger.....	317,651	May 12	972	251	31	707
Piano music-desk.....	J. B. Brown.....	326,542	Sept. 22	1754	458	32	1362
Piano music-rack.....	C. Baumeister.....	313,647	Mar. 10	827	216	30	941
Piano music-rack.....	J. Gramer.....	314,375	Mar. 24	1808	481	30	1140
Piano music-rack.....	T. F. Scanlan and O. A. Dinamore.....	315,558	Apr. 14	820	216	31	152
Piano. Mute.....	C. Petersilea.....	320,592	Nov. 3	230	59	33	549
Piano-pedal.....	C. F. T. Steinway.....	314,741	Mar. 31	2295	609	30	1254
Piano-pedal attachment.....	E. B. Haynes.....	311,754	Feb. 3	382	105	30	420
Piano-pedal attachment.....	T. C. Swing.....	311,043	Jan. 20	1154	315	30	228
Piano-pupils' monitor.....	J. A. Kieselhorst.....	313,502	Mar. 10	644	167	30	905
Piano sounding-board.....	J. Brinsmead.....	319,189	June 2	309	82	31	1105
Piano sounding-board.....	J. R. Lomas.....	320,264	June 16	1758	467	31	1384
Piano. Square.....	K. V. Barnekov.....	332,182	Dec. 8	1386	358	33	1253
Piano-string plate.....	J. W. Brackett.....	328,455	Oct. 20	1242	322	33	242
Piano. Transposing.....	W. L. Hays.....	326,871	Sept. 22	2243	{ 584 585 }	32	1448
Piano-tuning pin.....	C. E. Rogers.....	331,825	Dec. 8	860	221	33	1159
Piano. Upright.....	C. M. Hattersley.....	320,556	June 23	2208	584	31	1473
Piano. Upright.....	F. G. Smith.....	323,747	Aug. 4	474	134	32	612
Pianos and organs. Mechanical key-board attachment for.....	W. R. Edgington.....	326,413	Sept. 15	1593	414	32	1224
Pianos. Music-rack for upright.....	J. J. Decker.....	323,282	July 28	2550	679	32	488
Pianos. Music-rack for upright.....	G. M. Guild.....	313,417	Mar. 3	596	138	20	875
Pianos. Panel for upright.....	C. F. T. Steinway.....	315,447	Apr. 7	638	163	31	114
Pianos. Repeating-action for square and grand.....	F. Polster.....	326,566	Sept. 22	1809	475	32	1372
Pianos. Repeating-action for upright.....	P. Menges.....	326,576	Sept. 22	1795	471	32	1369
Pianos. Repetition-action for upright.....	L. F. Deming.....	326,278	Sept. 15	1420	370	32	1291
Pianos. Repetition-action for upright.....	C. P. Rasmussen.....	317,198	May 5	371	93	31	591
Pianos. Repetition-action for upright.....	A. Stegemann.....	317,874	May 12	1964	337	31	763
Pianos. Stringing.....	T. J. Brinsmead.....	310,188	June 2	308	82	31	1105
Pianos. Stringing.....	J. F. Conover.....	320,277	Oct. 27	2238	618	33	457
Pianos. Stringing.....	F. A. R. Günther.....	327,439	Sept. 20	2205	783	32	1558
Pianos. Stringing.....	J. Vivier.....	325,189	Aug. 25	2424	666	32	996
Pick.....	J. P. Davis and J. G. Robbins.....	310,528	Apr. 28	2135	562	31	406
Pick. Miner's.....	A. Womack.....	324,445	Aug. 18	1418	367	32	601
Picks. Machine for making.....	A. T. Moats.....	318,279	May 19	1801	482	31	672
Picker.....	S. T. Tyler.....	313,900	Mar. 17	1178	367	30	1013
Picket-fastening.....	W. W. Hamilton.....	321,717	July 7	410	109	32	77
Picture-exhibitor.....	G. F. Dyar.....	321,425	July 7	17	4	32	6
Picture-frame.....	C. O. Baxter.....	319,668	June 9	943	250	31	1221
Picture-frame.....	L. R. Harsha.....	314,832	Mar. 31	2441	645	30	1283
Picture-frame mat-gage.....	E. L. Gaylord.....	313,197	Mar. 3	232	58	30	819
Picture-frame molding. Making.....	C. O. Baxter.....	327,643	Oct. 6	191	47	33	34
Picture-frame moldings. Machine for making.....	C. O. Baxter.....	329,877	Nov. 10	682	138	33	628
Picture-frame moldings. Machine for ornamenting.....	C. Britsch.....	328,835	Oct. 20	1740	{ 453 454 }	33	333
Picture-frame moldings. Manufacturing.....	H. McHugh.....	332,815	Dec. 22	2268	.....	33	1424
Picture-frames. Fastening for the backs of.....	T. C. Vail.....	317,248	May 5	434	108	31	602
Picture-frames. Finishing.....	H. C. Johnson and J. Kozisek.....	327,556	Oct. 6	73	.....	33	14
Picture-hanger.....	D. Gridley.....	332,198	Dec. 8	1403	362	33	1256
Picture-hanger.....	A. J. Lyons.....	324,779	Aug. 18	1875	515	32	887
Picture-hanger.....	J. V. R. Towers.....	321,866	July 7	634	164	32	116
Picture-mat.....	A. S. Fontaine.....	314,008	Mar. 17	1327	346	30	1641
Picture-support.....	H. Wederer.....	328,738	Oct. 20	1627	424	33	311
Picture. Transparent.....	H. Bencke and P. Lorillard, Jr.....	315,703	Apr. 14	1001	263	31	188
Pictures, &c. Adjustable frame for.....	R. Choinanus.....	317,510	May 12	796	304	31	675

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Pie and cake rack.....	L. A. and D. S. Rowe.....	320,173	June 16	1642	437	31	1363
Pigment. Making zinc-sulphide.....	T. Macfarlane.....	331,249	Nov. 24	2436		33	988
Pile-box.....	J. A. Walsh.....	311,696	Feb. 3	308	84	30	407
Pile. Combined iron and steel.....	E. S. Brainard.....	324,522	Aug. 18	1532	422	32	822
Pile-driver.....	J. W. Putnam.....	312,582	Feb. 17	1544	490	30	651
Pile-driving machine.....	T. Whitaker.....	313,637	Mar. 10	812	212	30	937
Pile-steaming apparatus.....	J. Dolbeer.....	333,204	Dec. 29	2824	739	33	1528
Piles. Hood or cap for.....	W. T. Casgrain.....	333,392	Dec. 29	3074	802	33	1574
Piles. Sinking hydraulic.....	L. E. Blake.....	325,484	Sept. 1	360	87	32	1084
Pill-machine.....	E. A. Coles.....	332,493	Dec. 15	1805	474	33	1333
Pill-machine.....	A. F. Ward.....	311,620	Feb. 3	214	60	30	399
Pill and lozenge machine.....	G. A. Smith.....	390,447	June 16	2060	540	31	1437
Pill-counter.....	D. B. Moore.....	316,638	Apr. 28	2271	597	31	431
Pill-making machine.....	J. Lusby.....	323,349	July 28	2657	707	32	506
Pill tile and cutter. Combined.....	A. Caldwell.....	390,216	June 16	1701	451	31	1373
Pills, lozenges, &c. Machine for making.....	E. A. Coles.....	332,494	Dec. 15	1807	474	33	1334
Pills. Making.....	W. E. Upjohn.....	312,041	Feb. 10	785	214	30	502
Pillow.....	A. L. Pitney.....	394,755	Aug. 18	1882	517	32	880
Pillow and bolster with attachments. Ventilated.....	B. F. Nicholas.....	316,999	May 5	95	25	31	540
Pillow. Folding dress.....	H. S. Sternberger.....	319,340	June 2	495	134	31	1142
Pillow. Folding dress.....	H. S. Sternberger.....	394,604	Aug. 18	1629	448	32	841
Pillow-sham holder.....	W. E. Dewey.....	318,986	June 2	49	13	31	1057
Pillow-sham holder.....	W. E. Hammond.....	320,244	June 16	1737	461	31	1380
Pillow-sham holder.....	S. T. and A. I. Holly.....	317,535	May 12	821	211	31	680
Pillow-sham holder.....	J. H. Ward.....	317,052	May 5	159	40	31	351
Pillow-sham support.....	D. F. Fuller.....	332,195	Dec. 8	1399	361	33	1255
Pin:							
See Breastpin. Jewelry-pin.							
See Clothes-pin. Lace-pin.							
See Colter-pin. Lambrequin-pin.							
See Crank-pin. Napkin-pin.							
See Drapery-pin. Railing-pin.							
See Flask-pin. Safety-pin.							
See Hair-curling pin. Scarf-pin.							
Pin-machine.....	L. A. Fontaine.....	330,220	Nov. 10	1068	290	33	716
Pin-machines. Die-holder for.....	E. Smart.....	327,028	Sept. 29	2440	640	32	1492
Pin-stem.....	C. I. Loveren.....	332,264	Dec. 15	1504	393	33	1281
Pin-sticking machine.....	J. W. Naramore.....	317,173	May 5	332	83	31	583
Pinch-bar.....	C. Klaus.....	317,548	May 12	839	215	31	663
Pinch-bar.....	F. J. Smith.....	327,029	Sept. 29	2450	640	32	1492
Pinchers. Lasting.....	H. P. Aldrich.....	322,338	July 14	1242	326	32	226
Pin cushion and button-hook holder.....	W. Goodfellow.....	317,989	May 19	1427	362	31	802
Pinions. Apparatus for making.....	A. C. Dalzell.....	329,226	Oct. 27	2403	623	33	460
Pinions. Machine for polishing.....	G. Hunter and F. Leman.....	312,255	Feb. 24	1901	521	30	724
Pinions. Machine for roughing out.....	E. A. Marsh.....	330,600	Nov. 17	1563	523	33	819
Pipe:							
See Blow-pipe. Sewer-pipe.							
See Conductor-pipe. Stove-pipe.							
See Conduit-pipe. Stove and furnace pipe.							
See Gas-distributing pipe. Tobacco-pipe.							
See Hawse-pipe. Waste-pipe.							
See Overflow-pipe. Water-pipe.							
Pipe.....	J. Steel.....	320,981	June 30	2764	734	31	1583
Pipe and bolt threading apparatus.....	A. Saunders.....	317,022	May 5	121	30, 31	31	544
Pipe and drain-tile mold.....	C. N. Earl and H. T. Hazard.....	310,559	Jan. 13	888	241	30	174
Pipe and hose coupling.....	W. Strong.....	327,737	Oct. 6	309	79	33	54
Pipe and monkey wrench.....	G. S. Armstrong.....	323,017	July 28	2186	580	32	421
Pipe attachment. Steam.....	J. S. McDaniel.....	311,437	Jan. 27	1720	468	30	336
Pipe-bending machine.....	E. Devine.....	313,302	Mar. 3	386	95	30	847
Pipe-bowl cover and stuffer. Combined.....	G. Havell and A. G. Williams.....	321,104	June 30	2931	777	31	1613
Pipe-case.....	C. and H. Kock.....	310,287	Jan. 6	169	47	30	33
Pipe-cleaning apparatus.....	W. Thomas.....	323,542	Aug. 4	911	62	32	561
Pipe-coiling machine.....	J. M. Everts and J. H. Greenleaf.....	318,097	May 19	1566	420	31	827
Pipe-connection.....	J. B. Root.....	315,075	Apr. 7	122	28	31	24
Pipe-coupling.....	J. and W. Agnew.....	325,895	Sept. 8	898	226	32	1188
Pipe-coupling.....	T. W. Alexander.....	323,191	Aug. 25	2427	667	32	936
Pipe-coupling.....	B. F. Anthony and J. Coron.....	327,922	Oct. 13	621	163	33	179
Pipe-coupling.....	R. Bagaley.....	323,035	Dec. 8	1174	307	33	1216
Pipe-coupling.....	J. M. Bailey.....	323,211	Aug. 11	1106	299	32	736
Pipe-coupling.....	W. A. Bole.....	323,184	Dec. 8	1387	359	33	1253
Pipe-coupling.....	H. R. Borie.....	320,907	June 30	2662	708	31	1565
Pipe-coupling.....	R. B. Cogan.....	318,356	May 19	1914	516	31	892
Pipe-coupling.....	G. A. Daudt.....	320,635	June 23	2315	612	31	1492
Pipe-coupling.....	M. Dillenburg.....	323,567	Aug. 4	243	71	32	567
Pipe-coupling.....	R. Gray.....	317,764	May 12	1114	294	31	735
Pipe-coupling.....	J. H. Hobart.....	315,287	Apr. 7	423	106	31	77
Pipe-coupling.....	W. A. Hoeveler.....	323,413	Dec. 29	3104	809	33	1578
Pipe-coupling.....	L. Lerede.....	330,134	Nov. 10	965	251	33	696
Pipe-coupling.....	C. A. May and T. Siddall.....	325,686	Sept. 8	622	158	32	1137
Pipe-coupling.....	J. A. McCormick.....	318,009	May 19	1458	390	31	807
Pipe-coupling.....	J. A. McCormick. (Reissue).....	10,674	Dec. 15	2115	558	33	1388
Pipe-coupling.....	F. L. McGahan.....	331,806	Dec. 8	897	211	33	1153
Pipe-coupling.....	W. R. Middleton.....	310,300	Jan. 6	186	51	30	36
Pipe-coupling.....	R. C. Nugent.....	322,845	July 21	1934	511	32	367
Pipe-coupling.....	W. P. Patton.....	318,790	May 26	2496	666	31	1005
Pipe-coupling.....	C. Phillis.....	320,683	June 23	2377	629	31	1505

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.	Vol.	Page.
Pipe-coupling.....	W. G. Robb.....	319,853	June 9	1198	317	31	1576
Pipe-coupling.....	J. B. Root.....	315,074	Apr. 7	121	28	31	34
Pipe-coupling.....	T. Shelton.....	324,598	Aug. 18	1617	445	32	839
Pipe-coupling.....	T. Siddall.....	317,030	May 5	130	33	31	546
Pipe-coupling.....	W. W. Speer.....	315,565	Apr. 14	828	218	31	154
Pipe-coupling.....	E. W. Wolfe.....	320,738	June 23	2438	846	31	1518
Pipe-coupling.....	F. E. Youngs.....	327,215	Sept. 29	2702	703	32	1338
Pipe-coupling for wooden tanks.....	J. A. Mathieu.....	332,096	Dec. 8	1264	328	33	1238
Pipe coupling. Gas.....	J. Busba.....	833,446	Dec. 29	8146	822	33	1585
Pipe coupling. Gas.....	W. A. Hoeveler.....	233,412	Dec. 29	3104	809	33	1578
Pipe-coupling machine.....	S. Coburn.....	327,765	Oct. 6	340	87, 88	33	59
Pipe-coupling. Permanent.....	F. E. Youngs.....	326,469	Sept. 15	1660	433	32	1336
Pipe-crimping machine.....	W. A. Wheeler.....	321,165	June 30	3009	796	31	1627
Pipe-cutter.....	C. C. Harlow.....	331,787	Dec. 8	804	304	33	1149
Pipe-cutter.....	W. E. Melhorn.....	330,253	Nov. 10	1107	323	33	794
Pipe-cutter.....	N. W. Vandegrift and F. Armstrong.....	330,175	Nov. 10	1015	265	33	706
Pipe-elbow scriber.....	O. Bellman.....	318,643	May 26	2571	644	31	1018
Pipe-flanging machine.....	A. Campbell.....	323,109	July 28	2319	613	32	445
Pipe for floorings, ceilings, and other building purposes.....	F. Ephraim.....	333,119	Dec. 29	2709	710	33	1598
Pipe-hanger.....	G. W. Blake.....	311,382	Jan. 27	1513	413	30	989
Pipe-hanger.....	J. Hoey.....	330,703	Nov. 17	1700	459	33	847
Pipe-hanger.....	H. Trask.....	316,922	Apr. 28	2700	703	31	509
Pipe holder and lifter.....	E. S. Babcock.....	328,174	Oct. 13	871	326	33	165
Pipe-joint.....	W. T. Jackson.....	317,794	May 12	1158	306	31	743
Pipe-joint.....	H. McKenna and G. D. Bulmer.....	319,289	June 2	431	116	31	1139
Pipe-joint.....	P. Patterson.....	323,956	Aug. 11	743	307	32	670
Pipe-joint.....	G. R. Scott.....	332,754	Dec. 29	2200	580	33	1411
Pipe-joint for water, gas, electric wires, &c.....	W. Haasall.....	318,616	May 26	2261	604	31	963
Pipe-joint protector.....	B. Ford.....	320,771	June 23	2479	656	31	1325
Pipe-joints. Device for sealing.....	J. A. McCormick.....	320,405	Oct. 27	2500	668	33	492
Pipe-line.....	G. Westinghouse, Jr.....	323,246	July 28	2505	665	32	480
Pipe-line cleaner.....	J. S. Klein.....	332,010	Dec. 29	2406	636	33	1449
Pipe-line connection.....	G. Westinghouse, Jr.....	313,393	Mar. 3	494	189	30	868
Pipe-lines. Apparatus for cleaning out.....	B. F. Warren.....	322,005	Nov. 3	250	65	33	532
Pipe-lines. Stop-valve box for.....	G. Westinghouse, Jr.....	319,765	June 9	1069	284	31	1254
Pipe. Machine for making.....	G. Russell and D. R. Wood.....	314,980	Mar. 31	2647	700	30	1317
Pipe mouth-piece.....	W. Seabrook.....	318,210	May 19	1712	458	31	855
Pipe protector. Discharge and waste.....	W. W. Gage.....	313,068	Mar. 3	42	11	30	706
Pipe-reamer.....	M. T. Wyatt.....	327,638	Oct. 6	186	46	33	33
Pipe system having auxiliary leakage-conduit.....	C. Lutomski.....	321,005	July 7	679	176	32	123
Pipe-thread-cutting stock.....	A. Trout and C. H. Ortilp.....	318,222	May 19	1729	462	31	839
Pipe. Thread-protector for wrought-iron.....	M. Blakey.....	311,171	Jan. 27	1336	368	30	267
Pipe-welding furnaces. Lining for the grooves of.....	E. Peckham.....	313,102	Mar. 3	84	30	322	30
Pipe-welding machines. Forming-tube for.....	G. Russell.....	313,237	Mar. 10	1085	222	30	287
Pipe-wrench.....	F. Crocker.....	318,089	May 19	1559	418	31	626
Pipe-wrench.....	C. L. Dunham.....	332,191	Dec. 8	1394	360	33	1824
Pipe-wrench.....	J. F. Guthrie.....	310,818	Jan. 13	840	228	30	165
Pipe-wrench.....	J. F. Guthrie, Jr.....	320,772	June 23	2605	690	31	1549
Pipe-wrench.....	W. Harris.....	320,078	Sept. 29	2328	625	32	1451
Pipe-wrench.....	J. T. Hayden.....	324,378	Aug. 18	1329	361	32	785
Pipe-wrench.....	G. F. Newell.....	328,601	Oct. 20	1440	375	33	977
Pipe-wrench.....	F. A. Schramm.....	320,221	Oct. 27	2313	599	33	442
Pipe-wrench.....	R. E. Williams.....	328,167	Oct. 13	260	224	33	103
Pipe wrench and cutter.....	J. Williamson.....	328,270	Oct. 13	984	256	33	128
Pipes. Appliance for preventing dirt from passing into.....	J. Kirkaldy.....	326,679	Sept. 22	1786	469	32	1368
Pipes. Automatic stop-plug for gas and oil.....	W. F. Cosgrove.....	313,993	Mar. 17	1307	341	30	1037
Pipes. Connection for lead and other like.....	F. George.....	326,425	Sept. 15	1609	418	32	1327
Pipes. Coupling.....	W. A. Bole.....	331,940	Dec. 8	1033	262	33	1192
Pipes. Coupling for connecting.....	J. J. Lacey.....	324,031	Aug. 11	840	223	32	688
Pipes. Covering for gas, water, and oil.....	H. A. Clifford.....	329,720	Nov. 3	398	102	33	521
Pipes. Device for upsetting the ends of metal.....	M. E. Hawkins.....	833,410	Dec. 29	8101	608	33	1578
Pipes. Expansion-joint for steam and other.....	T. W. Duffy.....	311,178	Jan. 27	1354	371	30	270
Pipes. Expansion joint or coupling for.....	D. Fisher.....	328,579	Oct. 20	1406	365	33	271
Pipes. Filling attachment for the hubs of.....	C. Copman.....	315,463	Apr. 14	704	186	31	131
Pipes for conveying gas, water, and electricity. System of.....	W. A. Hoeveler.....	332,149	Dec. 8	1346	348	33	1245
Pipes, hose, &c. Union or coupling for.....	N. Thompson.....	331,170	Nov. 24	2316	627	33	963
Pipes, &c. Joint for.....	H. M. Hall.....	327,793	Oct. 6	376	97	33	66
Pipes. Machine for forming flanges upon soft.....	M. Chase.....	322,790	July 21	1851	492	32	353
Pipes. Protector for underground.....	W. and J. M. Rowbottom.....	110,727	Jan. 13	729	198	30	144
Pipes. Stopper for burst.....	A. Nicolet.....	329,938	Nov. 10	699	179	33	642
Pipes to closets, &c. Connection for.....	S. G. McFarland.....	330,502	Nov. 17	1449	367	33	797
Pistol for shooting marbles.....	J. W. Smith.....	328,348	Oct. 13	1085	292	33	206
Pistol recoil attachment.....	H. G. Piffard.....	319,020	June 9	108	29	31	1088
Piston.....	T. Barber.....	312,950	Feb. 24	2017	551	30	745
Piston.....	H. L. Brown.....	311,606	Feb. 3	445	121	30	432
Piston.....	P. Brotherhood.....	320,839	June 23	2559	677	31	1540
Piston and cylinder lubricator.....	A. and E. R. Simpson and M. Speicher.....	331,831	Dec. 8	870	223	33	1161
Piston and diaphragm meter. Combined.....	C. C. Barton and J. Thomson.....	313,158	Mar. 3	161	40	30	206
Piston and valve rod.....	J. McGrail.....	311,665	Feb. 3	269	74	30	399
Piston. Hydraulic.....	G. H. Reynolds.....	328,613	Oct. 20	1454	378	33	279
Piston-meter. Differential.....	L. W. Lombard.....	331,247	Nov. 24	2432	658	33	947
Piston-meter for fluids.....	H. M. Bartlett.....	331,605	Dec. 1	541	132	33	1022
Piston-rod.....	W. J. Longley.....	833,140	Dec. 29	2737	719	33	1513
Pitch-board. Adjustable.....	J. M. Prior.....	320,090	June 16	1534	406	31	1344
Pitcher. Fountain.....	W. Painter.....	316,646	Apr. 28	2223	602	31	433
Pitman.....	C. F. Search.....	326,887	Sept. 22	2264	592	32	1431

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Pitman. Adjustable	E. F. Lewis	327,803	Oct. 6	391	101	33	68
Pitman-rod	A. A. and A. J. Brooks	317,919	May 12	1325	355	31	775
Pitman-rod	D. Michaels	310,707	Jan. 13	704	192	30	140
Pitmen. Device for taking up lost motion in	W. J. Butler	331,865	Dec. 8	921	237	33	1170
Plaited goods. Machine for making	W. F. Beardslee	316,438	Apr. 28	2022	531	31	384
Plaiting apparatus	J. H. Gollehon, G. G. Britton, and J. F. Lucas	316,355	Apr. 21	1887	409	31	354
Plaiting apparatus	O. T. Raney	320,689	June 23	2384	630	31	1506
Plaiting-board	J. Curtin	316,012	Apr. 21	1437	375	31	273
Plaiting-board	P. T. Vannice	323,994	Sept. 8	1027	261	32	1211
Plaiting-machine	H. G. Otis	320,278	June 16	1790	476	31	1388
Plaiting-machine	F. Panse	331,432	Dec. 1	254	68, 69	33	1043
Plaiting-machine. Bosom	G. W. Pine	322,476	July 21	1440	378	32	278
Plane	W. F. Achenbach	310,163	Jan. 6	1	1	30	3
Plane	G. A. Clifford	317,092	May 5	214	54	31	562
Plane	L. C. Rodier	316,296	Apr. 21	1813	477	31	341
Plane	W. Tidgewell	312,929	Feb. 10	1049	287	30	549
Plane	J. A. Traut	316,079	Apr. 21	1524	398	31	280
Plane. Adjustable-faced	E. Walker	318,331	May 19	1880	505	31	886
Plane. Bench	J. Duncan	315,014	Apr. 7	38	8	31	9
Plane. Bench	J. P. Gage	321,804	Aug. 4	543	154	32	625
Plane. Bench	C. L. Mead	311,136	Jan. 20	1289	354	30	252
Plane. Bench	R. S. Sheldon	313,540	Mar. 10	667	180	30	914
Plane. Bench	W. Steers	310,473	Jan. 6	393	109	30	76
Plane. Bench	J. A. Traut	319,039	June 2	128	35	31	1071
Plane. Chamfer	J. Mander	314,338	Mar. 24	1759	469	30	1130
Plane. Chamfering	R. V. Wicks	310,349	Jan. 6	257	70	30	49
Plane. Floor	J. A. Traut	332,305	Dec. 15	1553	407	33	1290
Plane for picture-moldings	E. L. Gaylord	313,195	Mar. 3	231	58	30	819
Plane-guide	W. W. Preston	323,395	Aug. 4	220	81	32	573
Plane-holder	F. F. Mattoon	323,517	Aug. 4	177	51	32	555
Plane. Joiner's	W. Tidgewell	313,694	Mar. 10	884	230	30	952
Planer feed-roll	J. Connell	311,063	Jan. 20	1187	325	30	223
Planer-knife grinder	G. H. Mills	330,797	Nov. 17	1821	490	33	868
Planer. Machinist's	J. S. Alcorn	325,229	Sept. 1	1	1	32	1015
Planer. Metal	D. D. Griffin and L. H. Bachtell	329,550	Nov. 3	177	47	33	538
Planer presser-roll	S. M. Richardson	313,885	Mar. 17	1161	302	30	1009
Planer-table-driving mechanism	F. H. Richards	323,208	July 28	2456	652	32	471
Planers. Pressure and feed mechanism for wood	J. Kane	315,510	Apr. 14	736	195	31	138
Planing and finishing thin pieces of wood. Machine for	A. M. Ford and J. M. Moore	322,816	July 21	1885	500	32	359
Planing and matching machine	E. H. N. Clarkson	330,564	Nov. 17	1526	408	33	811
Planing and matching machine	W. M. Dwight	329,824	Nov. 3	544	138	33	606
Planing and matching machine	J. B. Mahaffey	321,377	June 30	3265	872	31	1677
Planing and polishing lumber. Machine for	W. R. Norris	327,199	Sept. 29	2674	695	32	1531
Planing and resawing machine	G. Lhote	328,794	Oct. 20	1688	439	33	323
Planing and shaping machines. Shipping device for metal	J. H. Wright	312,060	Feb. 10	810	221	30	506
Planing and slotting machine	C. K. Dawes	325,061	Aug. 25	2260	620	32	966
Planing-machine	F. S. Belter	331,606	Dec. 1	543	132	33	1093
Planing-machine	H. A. Holt	322,935	July 28	2068	551	32	399
Planing-machine	G. V. Orton	331,730	Dec. 1	731	183	33	1127
Planing-machine	F. J. Plummer	327,588	Oct. 6	114	26	33	21
Planing-machine	H. B. Stillman and W. F. Patterson	327,346	Sept. 29	2677	751	32	1567
Planing-machine attachment	H. Leverenz	316,156	Apr. 21	1639	429	31	311
Planing-machine tool-holder	R. R. Neild	318,646	May 26	2301	615	31	971
Planing machine. Wood	H. Feyh and J. L. Murphy	320,769	June 23	2477	656	31	1525
Planing machine. Wood	W. H. Gray and A. Hutchinson	315,406	Apr. 7	580	149	31	104
Planing machine. Wood	J. F. Welch, A. B. Hutchinson, and W. H. Gray	324,056	Aug. 11	875	241	32	692
Planing-machines. Cross-bar shoe for	A. B. Bean	316,109	Apr. 21	1572	409	31	298
Planing-machines. Feed mechanism for wood	W. H. Gray	314,666	Mar. 31	2199	584	30	1236
Planing-machines. Roller and bonnet attachment for	D. Lane	317,379	May 5	609	156	31	634
Planing-machines. Variable feed-motion for	J. Roberts	331,449	Dec. 1	278	75	33	1048
Planing or turning. Machine for interchangeably	H. B. Stillman and W. F. Patterson	327,968	Oct. 6	600	156	33	108
Plant-bed heater	A. S. Roush and A. C. Halterman	333,085	Dec. 22	2652	695	33	1492
Plant-beds. Apparatus for burning and preparing	J. H. Homer	323,151	July 28	2367	628	32	455
Plant-cutting shears	A. Sweetland	330,355	Nov. 10	1250	332	33	752
Plant protector	C. Anderson	327,510	Oct. 6	2	1	33	3
Plant protector	W. H. Brown	310,982	Jan. 20	1072	292	30	212
Plant protector	S. Garrard	311,116	Jan. 20	1258	345	30	246
Plant protector	W. Johnston	326,872	Sept. 22	2244	585	32	1448
Plant washes. Mixing and agitating apparatus for	E. J. Delaney	321,029	June 30	2010	774	31	1010
Plants. Device for watering	D. F. Allis	318,075	May 19	1542	413	31	822
Plants. Injecting device for	A. B. Escourrou	318,609	May 26	2253	602	31	961
Plants. Machine for making hills for tobacco and other	C. A. McCormick	327,004	Sept. 29	2420	633	32	1488
Planter	R. J. Gardner	328,306	Oct. 13	1032	267	33	195
Planter	T. C. Garlington	330,975	Nov. 24	2058	557	33	920
Planter	C. C. Kierulff	332,089	Dec. 8	1255	326	33	1231
Planter	J. H. and J. A. Kimbro	315,635	Apr. 14	918	241	31	171
Planter	A. E. Morris	327,960	Oct. 6	587	153	33	106
Planter	A. and J. Y. Savago	322,752	July 21	1806	476	32	344
Planter anchor. Check-row	J. C. Barlow	329,235	Oct. 27	2359	611	33	451
Planter and check-rower. Combined corn	J. Gannett	323,505	Aug. 4	160	47, 48	32	552
Planter and cultivator	B. J. Curry	327,434	Sept. 29	2988	781	32	1587
Planter and cultivator. Cotton-seed	J. F. Edmiston	310,191	Jan. 6	42	12	30	11
Planter and cultivator. Seed	J. H. Bunn	317,968	May 19	1403	377	31	798
Planter and cultivator. Universal	J. M. Hutson	324,938	Aug. 25	2095	573	32	936

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Planter and drill. Corn	E. V. and J. V. Mitchell	329,666	Nov. 3	322	83	33	563
Planter and fertilizer-distributor. Combined	S. W. Hatcher	325,341	Sept. 1	146	41	32	1042
Planter and fertilizer-distributor. Combined	J. Campbell	324,993	Aug. 25	2156	589	32	946
Planter and fertilizer-distributor. Combined cotton-seed	L. D. Monroe and G. W. Wiggins	330,342	Nov. 10	1221	327	33	747
Planter and fertilizer-distributor. Combined seed	R. A. Lambert	318,753	May 26	2441	654	31	997
Planter and fertilizer-distributor. Combined seed	S. O. Richardson	321,453	July 7	61	17, 18	32	14
Planter and fertilizer-distributor. Combined seed	C. F. Zeigler and J. D. Antley	331,600	Dec. 1	535	130	33	1091
Planter and fertilizer-distributor. Seed	R. M. and J. M. Brooks	325,496	Sept. 1	374	91, 92	32	1087
Planter and fertilizer-distributor. Seed	J. A. Esco and E. G. Roane	329,378	Oct. 27	2547	656	33	424
Planter and fertilizer-distributor. Seed	J. P. Luminus	314,187	Mar. 17	1559	408	30	1092
Planter and fertilizer-distributor. Seed	E. W. and J. W. McLendon	322,306	July 14	1199	315	32	222
Planter and guano-distributor. Combined seed	C. B. Hood	326,740	Sept. 22	2057	535	32	1414
Planter and guano-distributor. Corn	R. E. Simril	322,955	Dec. 22	2464	652	33	1460
Planter and guano-distributor. Cotton	H. D. and E. L. Wilson	323,985	Aug. 11	792	220	32	679
Planter and harrow. Combined seed	M. Kirkpatrick	314,141	Mar. 17	1501	392	30	1073
Planter and plow. Combined corn	J. Bollinger	313,296	Mar. 3	373	92	30	845
Planter attachment. Check-row corn	A. Wally and H. Beckman	326,813	Sept. 22	2162	563	32	1433
Planter attachment. Corn	J. L. Paden	333,247	Dec. 29	2884	754	33	1540
Planter. Automatic check-row corn	J. W. Clark and N. A. Palmer	323,431	Mar. 94	1881	502	30	1153
Planter. Broadcast seed	S. S. Speicher	323,063	Dec. 22	2474	655	33	1462
Planter check-line anchor. Corn	J. W. Clark and N. A. Palmer	314,432	Mar. 94	1885	503	30	1154
Planter. Check-row	J. Carden, Jr.	313,606	Mar. 10	1045	268	30	960
Planter. Check-row	N. E. Crothers	318,874	May 26	2612	693	31	1026
Planter. Check-row	W. C. Woods	317,067	May 5	177	45	31	555
Planter check-row attachment. Corn	L. Scofield	318,042	May 19	1499	402	31	815
Planter check-row attachment. Corn	W. H. Stewart	330,523	Nov. 17	1477	395	33	969
Planter check-row attachment. Corn	J. K. Voorhees	315,981	Apr. 14	1395	362	31	250
Planter check-row. Corn	H. A. Allen	316,514	Apr. 28	2120	558	31	403
Planter. Check-row corn	A. Anderson	313,466	Mar. 10	601	135	30	897
Planter. Check-row corn	I. Cruzan and B. F. Cargay	320,852	June 23	2580	683	31	1544
Planter. Check-row corn	D. M. Culver	317,441	May 5	701	176	31	640
Planter. Check-row corn	H. F. Graetzal	319,405	June 2	574	156	31	1157
Planter. Check-row corn	W. D. Hayner and C. W. Mangus	323,324	July 28	2622	697	32	500
Planter. Check-row corn	A. Liston and W. H. Navert	323,048	July 28	2237	591	32	429
Planter. Check-row corn	H. F. Pearson and G. W. Jarmin	318,650	May 26	2304	616	31	971
Planter. Check-row corn	F. A. Rose	316,833	Apr. 28	2565	671	31	465
Planter check-rower apparatus. Corn	C. E. Sweeney	318,931	May 26	2681	711	31	1039
Planter check-rower attachment. Corn	J. C. Barlow	312,695	Feb. 24	1682	463	30	665
Planter check-rower attachment. Corn	L. J. Odell	326,449	Sept. 15	1635	428	32	1332
Planter check-rower. Corn	A. and M. Barnes	315,220	Apr. 7	343	83, 84	31	61
Planter check-rower. Corn	L. D. Benner	321,077	June 30	2692	769	31	1607
Planter check-rower. Corn	L. D. Benner	321,943	July 14	737	193	32	142
Planter check-rower. Corn	J. E. Bering	315,226	Apr. 7	359	86	31	63
Planter check-rower. Corn	N. E. Crothers	312,977	Feb. 24	2053	561	30	752
Planter check-rower. Corn	R. Faries	326,282	Sept. 15	1424	370	32	1292
Planter check-rower. Corn	J. H. Montgomery	320,673	June 23	2363	694	31	1502
Planter check-rower. Corn	W. B. Rush	315,446	Apr. 7	636	164	31	114
Planter check-rowing attachment. Corn	W. S. Reeve	316,662	Apr. 28	2302	605	31	437
Planter check-rowing attachment. Corn	W. J. Snider	328,351	Oct. 13	1087	293	33	207
Planter check-rowing attachment. Corn	J. A. Withrow	312,783	Feb. 24	1506	406	30	708
Planter. Combined check-rower and self-dropping corn	L. Waterman, Jr.	328,160	Oct. 13	849	221	33	160
Planter. Combined cotton and corn	J. E. Loafman	326,756	Sept. 22	2077	540	32	1418
Planter. Combined potato and corn	F. L. Sencour	330,158	Nov. 10	993	258	33	702
Planter. Combined potato and tree	E. J. Hamre	314,830	Mar. 31	2438	644	30	1291
Planter. Corn	W. M. Ammerman	317,975	May 5	468	118	31	609
Planter. Corn	J. C. Barlow	317,075	May 5	190	48	31	557
Planter. Corn	J. C. Barlow	328,101	Oct. 13	775	202	33	147
Planter. Corn	J. C. Barlow	329,994	Nov. 10	773	198	33	656
Planter. Corn	J. M. Bolton	326,388	Sept. 15	1563	406	32	1318
Planter. Corn	M. P. Brown	320,044	June 16	1489	367	31	1332
Planter. Corn	E. Burkholder	332,874	Dec. 22	2360	624	33	1439
Planter. Corn	E. M. Calfel and T. L. Tracy	321,186	June 30	3027	602	31	1632
Planter. Corn	F. Clemens	315,245	Apr. 7	372	92	31	66
Planter. Corn	T. Craven	317,311	May 5	518	132	31	618
Planter. Corn	M. Danaher	328,764	Oct. 20	1651	431	33	316
Planter. Corn	L. Easley	325,400	Sept. 1	250	63	32	1063
Planter. Corn	J. J. Fraikin	323,801	Aug. 4	540	154	31	1113
Planter. Corn	J. Gannett	319,223	June 2	347	93	33	1363
Planter. Corn	A. Glisson	332,602	Dec. 15	1977	518	30	1104
Planter. Corn	G. D. Haworth	314,239	Mar. 24	1621	429	30	1104
Planter. Corn	G. D. Haworth	314,240	Mar. 24	1622	429	30	794
Planter. Corn	W. H. Hornor and A. Crotchett	312,853	Feb. 24	1899	520	30	794
Planter. Corn	A. S. and E. Houck	320,063	June 16	1496	395	31	1337
Planter. Corn	H. S. Howard	319,254	June 2	388	103	31	1121
Planter. Corn	G. L. Hudson	321,362	June 30	3947	867	31	1674
Planter. Corn	W. F. Johnson	313,596	Mar. 10	763	201	30	929
Planter. Corn	W. H. Kadel	328,036	Oct. 13	688	182	33	132
Planter. Corn	J. L. Lanum	328,792	Oct. 30	1684	438	33	322
Planter. Corn	G. Leeper	311,766	Feb. 3	397	108	30	429

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Planter. Corn.....	F. M. Lucas.....	323,942	Aug. 11	725	{ 202 203	{ 32	667
Planter. Corn.....	G. H. Meyer.....	311,351	Jan. 27	1605	{ 439 440	{ 30	315
Planter. Corn.....	N. Newman.....	327,301	Sept. 29	2812	{ 733 734	{ 32	1557
Planter. Corn.....	B. Nunamacker.....	329,203	Oct. 27	2288	{ 592 593	{ 33	437
Planter. Corn.....	G. F. Nutting, P. S. Rich, and J. Garfield.	330,798	Nov. 17	1822	{ 491 492	{ 33	869
Planter. Corn.....	L. J. Odell.....	319,994	June 16	1407	{ 370 371	{ 31	1320
Planter. Corn.....	J. E. Page.....	328,056	Oct. 13	716	{ 187 188	{ 33	136
Planter. Corn.....	W. L. Rucker.....	310,543	Jan. 6	492	{ 136 137	{ 30	94
Planter. Corn.....	M. and A. Runstetler.....	311,855	Feb. 3	510	{ 138 139	{ 30	444
Planter. Corn.....	M. and A. Runstetler.....	320,943	June 30	2707	{ 718 719	{ 31	1573
Planter. Corn.....	F. H. Rybackek.....	326,525	Sept. 15	1731	{ 451 452	{ 32	1350
Planter. Corn.....	L. Scofield.....	313,891	Mar. 17	1166	{ 304 305	{ 30	1011
Planter. Corn.....	L. Scofield.....	318,512	May 26	2116	{ 571 572	{ 31	939
Planter. Corn.....	L. Scofield.....	319,331	June 2	483	{ 130 131	{ 31	1140
Planter. Corn.....	G. Shadday, Jr.....	325,121	Aug. 25	2333	{ 642 643	{ 32	979
Planter. Corn.....	M. A. Sheldon.....	311,382	Jan. 27	1648	{ 450 451	{ 30	323
Planter. Corn.....	J. P. Simmons.....	311,683	Feb. 3	294	{ 80 81	{ 30	404
Planter. Corn.....	E. M. South.....	302,679	Dec. 15	2059	{ 548 549	{ 33	1383
Planter. Corn.....	C. Thompson.....	312,931	Feb. 24	1996	{ 546 547	{ 30	741
Planter. Corn.....	A. Thurstin and F. Jacoby.....	315,857	Apr. 14	1219	{ 318 319	{ 31	928
Planter. Corn.....	J. C. Tunncliffe.....	325,638	Sept. 1	556	{ 141 142	{ 32	1121
Planter. Corn.....	G. M. Williams.....	312,594	Feb. 17	1559	{ 425 426	{ 30	654
Planter. Corn.....	A. J. Wood.....	316,424	Apr. 21	1894	{ 524 525	{ 31	373
Planter. Corn.....	A. Yount.....	332,469	Dec. 15	1777	{ 465 466	{ 33	1328
Planter. Corn and cotton.....	W. F. Wear.....	326,609	Sept. 22	1851	{ 485 486	{ 32	1378
Planter. Corn and cotton.....	G. W. Williams and J. Hook.....	325,716	Sept. 8	676	{ 170 171	{ 32	1146
Planter. Corn and pea.....	H. C. Howell.....	323,153	Dec. 8	1352	{ 350 351	{ 33	1247
Planter. Cotton.....	J. S. Dan'ell.....	323,642	Aug. 4	343	{ 97 98	{ 32	586
Planter. Cotton.....	W. H. Hackett.....	330,393	Nov. 17	1310	{ 348 349	{ 33	770
Planter. Cotton.....	H. C. Howell.....	332,152	Dec. 8	1351	{ 350 351	{ 33	1246
Planter. Cotton.....	J. H. Stanton.....	321,321	June 30	3191	{ 851 852	{ 31	1863
Planter. Cotton.....	R. Thomson.....	330,440	Nov. 17	1369	{ 365 366	{ 33	761
Planter. Cotton and corn.....	K. P. Alston, Jr.....	322,772	July 21	1831	{ 484 485	{ 32	349
Planter. Cotton and corn.....	L. Easley.....	316,018	Apr. 21	1444	{ 377 378	{ 31	275
Planter. cotton-chopper, and scraper.....	W. I. Holt.....	326,560	Sept. 22	1770	{ 465 466	{ 32	1360
Planter. Cotton, corn, and pea.....	D. T. Applewhite.....	324,514	Aug. 18	1513	{ 416 417	{ 32	818
Planter. Cotton-seed.....	J. J. Elliston.....	325,514	Sept. 1	404	{ 99 100	{ 32	1092
Planter. Cotton-seed.....	J. N. Gardner.....	316,255	Apr. 21	1759	{ 462 463	{ 31	332
Planter. Cotton-seed.....	J. M. Howell.....	313,938	Mar. 17	1245	{ 324 325	{ 30	1024
Planter. Cotton-seed.....	S. L. Houston.....	331,198	Nov. 24	2359	{ 638 639	{ 33	975
Planter. Cotton-seed.....	T. Meikle.....	326,771	Sept. 22	2007	{ 545 546	{ 32	1421
Planter. Cotton-seed.....	R. B. Smith.....	312,393	Feb. 17	1280	{ 354 355	{ 30	602
Planter. Cotton-seed.....	W. M. Wilder.....	315,099	Apr. 7	163	{ 37 38	{ 31	29
Planter, coverer, and marker. Combined.....	T. Gifford.....	318,977	June 2	65	{ 17 18	{ 31	1060
Planter drilling attachment. Corn.....	A. C. Evans.....	311,574	Feb. 3	154	{ 44 45	{ 30	377
Planter dropper. Corn.....	R. D. Powell.....	333,334	Dec. 29	8004	{ 786 787	{ 33	1562
Planter feeding apparatus.....	D. M. Parry.....	325,763	Sept. 8	738	{ 184 185	{ 32	1158
Planter fertilizing attachment. Corn.....	G. S. Paine.....	316,645	Apr. 28	2282	{ 600 601	{ 31	433
Planter fertilizing attachment. Seed.....	A. C. Evans.....	319,893	June 9	1254	{ 331 332	{ 31	1285
Planter. Hand corn.....	C. B. Arnold.....	315,881	Apr. 14	1255	{ 327 328	{ 31	234
Planter, barrow, and cultivator. Combined.....	J. M. Walker.....	326,180	Sept. 15	1224	{ 331 332	{ 32	1266
Planter marking attachment. Corn.....	W. H. Clay.....	329,143	Oct. 27	2202	{ 570 571	{ 33	421
Planter. Potato.....	A. J. Agee and A. Fraser.....	316,217	Apr. 21	1711	{ 449 450	{ 31	324
Planter. Potato.....	H. Christenson and W. Timmers.....	331,278	Dec. 1	16	{ 4 5	{ 33	1003
Planter. Potato.....	A. L. Gill.....	333,460	Dec. 29	3168	{ 828 829	{ 33	1589
Planter. Potato.....	J. Hair.....	311,312	Jan. 27	1549	{ 421 422	{ 30	305
Planter. Potato.....	L. P. Hildebrand.....	321,296	June 30	3163	{ 843 844	{ 31	1657
Planter. Potato.....	J. M. Karr.....	321,439	July 7	33	{ 9 10	{ 32	9
Planter. Potato.....	J. D. Madden.....	316,279	Apr. 21	1793	{ 471 472	{ 31	338
Planter. Potato.....	W. F. Newbold.....	312,885	Feb. 24	1942	{ 531 532	{ 30	731
Planter. Potato.....	J. Norton, Sr.....	327,011	Sept. 29	2429	{ 635 636	{ 32	1489
Planter. Potato.....	F. F. Wolgamuth.....	318,224	May 19	1732	{ 463 464	{ 31	859
Planter. Rice.....	T. C. and J. Nelson.....	317,565	May 12	856	{ 220 221	{ 31	667
Planter. Seed.....	J. L. Bruce and T. E. Sikes.....	326,712	Sept. 22	1989	{ 522 523	{ 32	1404
Planter. Seed.....	A. E. Choate.....	322,421	July 21	1361	{ 356 357	{ 32	265
Planter. Seed.....	J. W. Clark.....	324,458	Aug. 18	1435	{ 392 393	{ 32	805
Planter. Seed.....	W. M. Dight.....	318,705	May 26	2376	{ 634 635	{ 31	985
Planter. Seed.....	J. Fridav.....	322,593	July 21	1598	{ 422 423	{ 32	306
Planter. Seed.....	W. B. Gibson.....	323,413	Aug. 4	41	{ 10 11	{ 32	530
Planter. Seed.....	R. I. Herrick.....	315,782	Apr. 14	1120	{ 294 295	{ 31	210
Planter. Seed.....	J. Laude.....	325,444	Sept. 8	842	{ 211 212	{ 32	1177
Planter. Seed.....	C. S. Locke.....	317,810	May 12	1177	{ 313 314	{ 31	747
Planter. Seed.....	J. B. Parker.....	332,746	Dec. 22	2189	{ 578 579	{ 33	1409
Planter. Seed.....	A. E. Scott.....	318,311	May 19	1854	{ 497 498	{ 31	881
Planter. Seed.....	H. G. Smith.....	330,806	Nov. 17	1833	{ 494 495	{ 33	871
Planter. Seed.....	F. T. Williams.....	312,689	Feb. 24	1674	{ 462 463	{ 30	685
Planter, seeder, and fertilizer-distributor.....	J. B. Butts.....	325,393	Sept. 1	243	{ 60, 61 62	{ 32	1061
Planter. Self-checking corn.....	J. A. Shaw.....	329,091	Oct. 27	2130	{ 551 552	{ 33	408
Planter. Self-dropping corn.....	L. Liedel.....	313,219	Mar. 3	261	{ 66 67	{ 30	825
Planter. Silky corn and seed.....	C. C. Henderson.....	324,322	Aug. 11	1232	{ 340 341	{ 32	763
Planters. Wire for check-row corn.....	J. C. Barlow.....	328,452	Oct. 20	1239	{ 322 323	{ 33	241
Planting cranberry-vines. Implement for.....	F. B. Hiller.....	323,419	Aug. 4	47	{ 12 13	{ 32	531
Planting-machine.....	A. Mekenney.....	328,597	Oct. 20	1430	{ 372 373	{ 33	276

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Planting machine. Corn.....	J. Case.....	316,743	Apr. 28	2443	{ 636 637 }	31	462
Plaque.....	E. McLoughlin.....	311,772	Feb. 3	404	110	30	424
Plaque or panel.....	E. De Planque.....	319,680	June 9	957	254	31	1234
Plaque-stand. Adjustable.....	E. Blaesus.....	326,387	Sept. 15	1563	406	32	1318
Plaster.....	T. A. Abbott.....	315,691	Apr. 14	986	.....	31	165
Plaster and sheet-metal lining for partitions, &c. Compound.....	E. C. Morris.....	329,759	Nov. 3	451	114	33	580
Plaster casts. Treating.....	A. B. Joy and J. J. Lewen.....	317,369	May 5	595	.....	31	632
Plaster compound.....	G. L. Gregory.....	315,936	Apr. 14	1332	.....	31	247
Plaster for building purposes. Composition of mat- ter to be used as a.....	E. and E. W. Marsh.....	321,620	July 7	287	.....	32	55
Plasters. Composition for.....	W. N. Baker.....	316,932	May 5	3	.....	31	523
Plastering, calcimining, and painting machine.....	T. H. Brown.....	315,902	Apr. 14	1288	336	31	240
Plastering composition.....	J. W. Rees.....	322,751	July 21	1805	.....	32	344
Plastering device.....	H. B. Hall and F. G. Powers.....	330,321	Nov. 10	1198	320	33	743
Plastic composition.....	J. J. Varley.....	321,548	July 7	199	.....	32	39
Plastic compound for walls, &c.....	H. W. Merritt.....	322,307	July 14	1200	.....	32	228
Plastic compound suitable for molding into various useful articles, such as screw-stoppers for bottles, jars, &c.....	M. Mackay.....	310,899	Jan. 20	945	.....	30	180
Plater's bar.....	E. D. Tuttle.....	323,432	Dec. 29	2128	818	33	1582
Plates or tubes. Machine for corrugating.....	G. S. Strong.....	324,608	Aug. 18	1633	{ 449 450 }	32	842
Plates, tubes, and other articles from clay, cement, plaster-of-paris, &c. Apparatus for manufacturing.....	F. C. A. Meier.....	323,190	July 28	9432	644	32	467
Plating purposes. Preparing articles for.....	W. A. Gay.....	321,711	July 7	402	.....	32	75
Plating with palladium.....	G. Pilet and C. Carry.....	330,149	Nov. 10	984	.....	33	700
Platform: See Loading and unload- Window-platform. ing platform.....							
Platform and platform-shifting mechanism. Double.....	O. P. Bushnell.....	311,956	Feb. 10	668	183	30	460
Platform dump and elevator. Portable.....	A. L. Grinnell.....	332,654	Dec. 15	2050	539	33	1377
Platform-spring.....	W. Crago.....	317,095	May 5	217	55	31	563
Pliers. Cutting.....	N. Gill.....	316,452	Apr. 23	2044	536	31	398
Pliers. Cutting.....	A. L. Pickett.....	326,327	Sept. 15	1490	328	32	1305
Pliers. Nnt.....	H. F. Osborne.....	321,133	June 30	2961	784	31	1619
Pliers. Punching and cutting.....	H. A. R. Horton.....	317,181	May 5	340	86	31	585
Pliers. Watch-maker's.....	H. A. R. Horton.....	317,648	May 12	968	249	31	707
Plow.....	R. H. Adair.....	320,611	June 23	2221	603	31	1487
Plow.....	C. D. Adams.....	323,097	July 28	2304	608	32	442
Plow.....	I. Anderson.....	332,662	Dec. 22	2337	618	33	1435
Plow.....	C. Atkinson.....	322,373	July 21	1578	{ 415 416 }	32	302
Plow.....	J. Austin.....	317,961	May 19	1391	{ 373 374 }	31	795
Plow.....	D. M. Barringer.....	318,160	May 19	1870	441	31	843
Plow.....	G. W. Bedinger.....	310,243	Jan. 6	102	28	30	21
Plow.....	T. M. Bissell.....	312,797	Feb. 24	1824	501	30	711
Plow.....	G. E. Blaine.....	311,564	Feb. 3	144	41	30	375
Plow.....	T. A. Blanchard.....	312,075	Feb. 10	831	{ 216 227 }	30	511
Plow.....	J. B. Brown.....	314,425	Mar. 24	1871	498	30	1152
Plow.....	W. E. Brown.....	310,349	Jan. 6	110	31	30	23
Plow.....	J. W. Burrows.....	329,008	Oct. 27	2009	522	33	398
Plow.....	M. Call.....	314,362	Mar. 24	1791	476	30	1136
Plow.....	G. B. Casaday.....	321,187	June 30	3021	803	31	1632
Plow.....	G. B. Casaday.....	321,188	June 30	3031	803	31	1632
Plow.....	G. B. Casaday.....	321,189	June 30	3033	804	31	1632
Plow.....	S. H. Clanton.....	312,817	Feb. 24	1849	507	30	715
Plow.....	A. J. Craig.....	324,660	Aug. 18	1718	473	32	857
Plow.....	J. R. Cummins.....	325,239	Sept. 1	10	4	32	1017
Plow.....	F. Emerson, J. J. and J. L. Faires, and J. R. Cummins.....	318,086	May 19	1566	420	31	827
Plow.....	W. A. Estes.....	312,559	Feb. 17	1514	413	30	645
Plow.....	A. M. Fitch.....	317,754	May 12	1104	290	31	733
Plow.....	A. M. Fitch.....	320,475	Nov. 17	1419	379	33	791
Plow.....	W. M. Gorry.....	318,960	June 2	68	17	31	1060
Plow.....	O. K. Hamre.....	314,017	Mar. 17	1339	349	30	1043
Plow.....	M. Hendrick.....	320,325	Nov. 10	1202	321	33	743
Plow.....	W. H. Hodgson.....	320,656	June 23	2343	619	31	1498
Plow.....	W. H. Hodgson.....	323,010	Dec. 22	2351	672	33	1475
Plow.....	J. Howard and H. W. Gibbs.....	314,673	Mar. 31	2207	586	30	1238
Plow.....	M. R. Hubbell.....	322,834	Nov. 3	557	142	33	608
Plow.....	F. B. Hunt.....	322,454	Nov. 3	32	9	33	511
Plow.....	F. B. Hunt.....	321,063	Nov. 24	2159	586	33	940
Plow.....	G. A. Kelly.....	321,224	June 30	3074	{ 815 816 }	31	1640
Plow.....	W. C. Kinard and M. J. Maddox.....	321,410	Dec. 1	220	57	33	1037
Plow.....	W. A. Lee.....	316,375	Apr. 21	1790	470	31	337
Plow.....	J. D. LeFebvre.....	320,481	June 23	2109	556	31	1454
Plow.....	H. Listerud.....	327,562	Oct. 6	80	18	33	15
Plow.....	J. E. Marshall.....	319,499	June 9	721	193	31	1190
Plow.....	T. M. Moore.....	332,206	Dec. 8	1420	{ 365 366 }	33	1229
Plow.....	F. M. Mott.....	311,511	Feb. 3	69	20	30	362
Plow.....	C. E. Murray.....	320,441	June 16	2051	{ 538 539 }	31	1435
Plow.....	G. W. D. and L. L. Porter.....	328,429	Oct. 13	1210	313	33	229
Plow.....	N. A. Powell.....	315,441	Apr. 7	633	103	31	113
Plow.....	L. C. Reed.....	324,415	Aug. 18	1383	377	32	796
Plow.....	M. L. Rinehart.....	310,227	Jan. 6	83	22	30	18
Plow.....	J. D. Roberson.....	326,591	Sept. 22	1814	{ 476 477 }	32	1373

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Plow	W. H. Ryer	311,449	Jan. 27	1734	472	30	339
Plow	J. C. F. Schenck	314,609	Mar. 31	2121	565	30	1223
Plow	C. Siegörtner	310,031	June 2	120	33	31	1070
Plow	D. D. Skiles	315,351	Apr. 7	502	129	31	92
Plow	H. M. Skinner	324,789	Aug. 18	1857	519	32	890
Plow	A. Snow	321,319	June 30	3189	850	31	1663
Plow	G. O. C. Srygley	312,298	Feb. 17	1286	356	30	603
Plow	J. Stoll	324,607	Aug. 18	1632	449	32	842
Plow	W. Strait	332,302	Dec. 15	1549	406	33	1289
Plow	T. Ward	323,836	Aug. 4	582	164	32	633
Plow	L. B. White	313,394	Mar. 3	497	129	30	868
Plow	R. W. Whitehurst	319,872	June 9	1229	324	31	1280
Plow	S. B. Williams	317,260	May 5	451	113	31	606
Plow	R. S. Windsor	329,609	Nov. 3	255	66	33	553
Plow	J. Zeek	323,770	Aug. 4	510	143	32	618
Plow and cultivator	R. M. Henderson	323,676	Aug. 4	383	109	32	594
Plow and cultivator. Sulky	S. Langford	324,849	Aug. 25	1979	544	32	914
Plow and harrow. Combined	W. H. Repass and J. P. Currin	319,621	June 9	889	235	31	1220
Plow and mold-board therefor	D. Harger	314,445	Mar. 24	1898	507	30	1157
Plow and planter	W. P. Bettendorf	329,123	Oct. 27	2175	563	33	416
Plow and pulverizer. Cylinder	S. M. Neely	332,421	Dec. 15	1720	451	33	1318
Plow and pulverizer. Rotary	C. and S. T. Johnston	315,947	Apr. 14	1351	350	31	250
Plow and seeder. Combined	A. Glenn	322,395	July 21	1600	423	32	306
Plow attachment	L. Even	318,941	May 19	1755	469	31	863
Plow attachment	W. S. Felton	332,452	Dec. 15	2048	538	33	1376
Plow attachment	J. R. Gregory	317,340	May 5	563	144	31	686
Plow attachment	O. R. and G. B. Hanchett	322,443	July 21	1393	366	32	270
Plow attachment	C. W. McCormick	321,006	July 7	681	177	32	194
Plow attachment	S. B. Williams	322,769	July 21	1826	483	32	348
Plow attachment. Shovel	C. W. Luyster	326,012	Sept. 22	2299	601	32	1457
Plow-beam and attachment	J. Logan	310,094	Jan. 13	687	188	30	136
Plow-beam. Compound	H. H. Sumner	331,042	Dec. 1	118	98	33	1020
Plow beams. Bed-plates for sulky	J. F. Packer	323,042	Aug. 4	75	21, 22	32	536
Plow beams. Machine for finishing	W. C. Margedant	322,638	July 21	1926	510	32	366
Plow-carriage	C. B. Spurr	322,068	Dec. 15	1923	503	33	1353
Plow colter and jointer attachment	W. A. Whitney	331,175	Nov. 24	2323	630	33	969
Plow. Combination	J. L. Clower	313,473	Mar. 10	608	157	30	898
Plow. Convertible	H. D. Terrell	310,331	Jan. 6	238	65	30	45
Plow. Ditching	J. W. Humphreys	321,998	July 7	671	174	32	122
Plow. Double	M. Flynn	327,154	Sept. 29	2628	684	32	1523
Plow. Double	L. Guthrie	329,431	Nov. 3	551	141	33	607
Plow-extension	A. R. Mallory	326,759	Sept. 22	2080	541	32	1418
Plow-fender	I. Davis	322,924	Oct. 27	1872	469	33	363
Plow-fender	C. A. Malott	332,141	Dec. 29	2738	719	33	1514
Plow-fender	G. C. Miller	311,909	Feb. 10	603	165	30	468
Plow-fender	W. H. Stone	311,857	Feb. 3	512	139	30	445
Plow-gage	J. B. Law	315,799	Apr. 14	1141	299	31	214
Plow. Gang	J. W. Bartlett	310,775	Jan. 13	789	213	30	155
Plow. Gang	J. R. Gill	326,969	Sept. 29	2380	622	32	1470
Plow. Gang	J. Ingham	322,625	July 21	1904	505	32	362
Plow. Gang	D. M. Johnston	331,503	Dec. 1	348	94	33	1061
Plow. Gang	F. F. Landis	316,045	Apr. 21	1475	385	31	280
Plow. Gang	H. W. Wynne	326,534	Sept. 15	1744	455	32	1353
Plow. Hand	C. W. Terpening	325,775	Sept. 8	757	189	32	1162
Plow-handle	H. D. Spangler	311,790	Feb. 3	427	115	30	428
Plow-handles. Machine for finishing	W. C. Margedant	325,258	Sept. 1	32	10	32	1021
Plow harrow attachment	G. W. Spencer	322,760	July 21	1813	479	32	346
Plow harrow attachment	V. Wood	331,358	Dec. 1	140	35	33	1023
Plow. Hilling	R. Schuster	310,855	Jan. 13	885	235	30	173
Plow. Hillside	W. Strait	313,122	Mar. 3	109	27	30	797
Plow mold-boards. Tool for molding	W. M. Gorry	318,979	June 2	67	17	31	1060
Plow. Planting	J. P. Black	331,038	Dec. 8	1030	268	33	1192
Plow. Planting	T. Pates	324,480	Aug. 18	1465	401	32	810
Plow. Planting	T. Pates	324,481	Aug. 18	1466	401	32	810
Plow-point	G. W. Mullin	313,832	Mar. 10	1081	980	30	986
Plow pulverizing attachment	J. R. Summerson	314,982	Mar. 31	2650	701	30	1317
Plow. Reversible	J. L. Delano	312,438	Feb. 17	1338	369	30	613
Plow. Reversible	W. C. Haulbrook	324,109	Aug. 11	947	260	32	706
Plow. Reversible	C. Myers	312,649	Feb. 24	1624	447	30	675
Plow. Riding	F. L. Hankins	328,026	Oct. 13	674	177	33	129
Plow. Rotary	H. H. Cumback	320,853	June 23	2582	684	31	1545
Plow. Rotary	M. C. Niles	314,960	Mar. 24	1649	437	30	1109
Plow. Rotary	F. Wittram	320,452	Nov. 17	1387	369	33	784
Plow. Rotary-mold-board	E. G. Goddard	326,030	Sept. 8	1076	275	32	1221
Plow. Self-cleaning	A. Jones	324,559	Aug. 18	1563	432	32	829
Plow-sharpener	J. C. Price	327,590	Oct. 6	117	27	33	22
Plow. Shovel	B. J. Leslie	320,074	June 16	1515	401	31	1340
Plow. Shovel	J. and P. Scott	332,563	Dec. 15	1920	502	33	1353
Plow. Side-hill	H. Wiard and W. R. Bullock	329,607	Nov. 3	253	65	33	553
Plow. Side-hill sulky	A. D. Sewell	311,041	Jan. 20	1151	314	30	227
Plow. Steam gang	E. Penney	316,388	Apr. 21	1934	510	31	363
Plow. Steam gang	E. Penney	316,389	Apr. 21	1935	511	31	363
Plow. Steam gang	E. Penney	316,390	Apr. 21	1936	511	31	363
Plow. Steam gang	E. Penney	316,391	Apr. 21	1938	511	31	363
Plow. Steam gang	E. Penney	316,392	Apr. 21	1940	511	31	363
Plow. Steam gang	E. Penney	316,393	Apr. 21	1941	512	31	364
Plow. Steam gang	W. H. Snyder	310,845	Apr. 28	2587	676	31	488
Plow. Steam gang	W. H. Snyder and A. O. Frick	310,846	Apr. 28	2588	677	31	489

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Plow-stock	T. W. Boyle	332,225	Dec. 15	1449	375	33	1371
Plow-stock. Double-foot	D. O. Page	314,050	Mar. 17	1377	359	30	1050
Plow. Subsoil	J. Dorrance and G. L. Ebersole	329,028	Oct. 27	2038	529	33	363
Plow. Sulky	A. A. Betty	322,243	July 14	1127	294	32	215
Plow. Sulky	J. P. Black	329,432	Nov. 3	8	2	33	506
Plow. Sulky	L. M. Brock	312,324	Feb. 17	1189	325	30	524
Plow. Sulky	P. Clines	316,239	Apr. 21	1740	457	31	329
Plow. Sulky	W. G. Danielson	318,358	May 19	1916	517	31	592
Plow. Sulky	J. R. Ervin	322,094	July 14	938	243	32	179
Plow. Sulky	O. H. Field	311,736	Feb. 3	356	98, 99	30	416
Plow. Sulky	A. J. Gale	325,060	Aug. 25	2270	624	39	963
Plow. Sulky	R. R. Gaskill	330,889	Nov. 24	1945	527	33	620
Plow. Sulky	S. Gealey	316,959	May 5	39	11	31	530
Plow. Sulky	L. Gibbs	329,731	Nov. 3	411	106	33	523
Plow. Sulky	F. B. Hunt	329,905	Nov. 10	654	167	33	624
Plow. Sulky	T. H. Latimer	314,691	Mar. 31	2225	592	30	1241
Plow. Sulky	R. E. Linham	311,016	Jan. 30	1116	305	30	320
Plow. Sulky	E. D. Mcagher and C. E. Tower	313,749	Mar. 10	968	250	30	866
Plow. Sulky	T. T. Miller	322,953	July 28	2095	557	32	404
Plow. Sulky	J. E. Mohney	315,513	Apr. 14	1160	304	31	217
Plow. Sulky	W. S. Pates	322,633	July 21	1648	435	32	315
Plow. Sulky	J. E. Porter	326,518	Oct. 20	1314	342	33	355
Plow. Sulky	J. S. and E. C. Robinson	316,572	Apr. 28	2190	576	31	416
Plow. Sulky	S. Rockafellow	315,169	Apr. 7	252	61, 62	31	46
Plow. Sulky	S. Rockafellow	324,788	Aug. 18	1886	518	32	290
Plow. Sulky	N. Shaffettall	316,839	Apr. 28	2580	519	31	487
Plow. Sulky	J. and E. E. Sickler	315,563	Apr. 14	825	217	31	153
Plow. Sulky	W. Strait	332,301	Dec. 15	1548	405	33	1229
Plow. Sulky	R. A. Thompson	322,331	July 14	1232	323	32	225
Plow. Sulky	J. E. Turk	321,324	June 30	3195	832	31	1664
Plow. Sulky	J. M. Young	325,719	Sept. 8	681	170	32	1147
Plow. Sulky	J. T. Ziegler	327,640	Oct. 6	187	46	33	34
Plow sulky attachment	T. Johnson	331,972	Dec. 8	1073	278	33	1199
Plow sulky-frame	S. Mercer	315,316	Apr. 7	459	116	31	83
Plow. Vineyard gang	R. B. Johnson	318,563	May 26	2203	589	31	892
Plow. Wheel	G. W. Akins	315,211	Apr. 7	334	81	31	60
Plow. Wheel	J. W. Bartlett	319,440	June 9	635	172	31	1176
Plow. Wheel	J. W. Bartlett	319,441	June 9	636	173	31	1176
Plow. Wheel	L. M. Brock	319,059	June 2	154	42	31	1078
Plow. Wheel	W. L. Casaday	313,226	Mar. 3	361	89, 90	30	842
Plow. Wheel	W. L. Casaday	323,496	Aug. 4	145	44	32	549
Plow. Wheel	C. M. French	333,065	Dec. 22	2619	686	33	1487
Plow. Wheel	A. Lindgren	323,169	July 28	2394	639	32	429
Plow. Wheel	A. Lindgren	328,952	Oct. 27	1913	530	33	371
Plow. Wheel	J. W. Meikle	316,802	Apr. 28	2520	658	31	476
Plow. Wheel	T. Meikle	330,252	Nov. 10	1106	293	33	724
Plow. Wheel	G. Moore	313,947	Mar. 17	1255	327	30	1026
Plow. Wheel	W. Newlin	316,053	Apr. 21	1487	388	31	282
Plow. Wheel	W. Newlin	318,223	May 19	1804	483	31	873
Plow. Wheel	E. D. and O. B. Reynolds	321,052	June 30	2852	759	31	1600
Plow. Wheel gang	W. J. Browne	325,783	Sept. 8	765	191	32	1163
Plows and cultivators. Harrow and rake attachment for	E. T. Jarrett	329,745	Nov. 3	430	112	33	546
Plows. Landside for	G. B. St. John. (Reissue)	10,641	Aug. 25	2483	622	32	1008
Plows. Scraper attachment for wheel	E. Slosson	332,844	Dec. 22	2306	607	33	1430
Plowing, &c. Machinery for	W. C. Morton	324,578	Aug. 18	1592	439	32	535
Plowshare attachment	S. Hamilton	311,980	Feb. 10	710	195	30	467
Plowshares. Device for welding	T. Poling	315,162	Apr. 7	244	59	31	45
Plowshares. Roll for rolling	S. Oar	330,611	Nov. 17	1520	423	33	222
Plug. Turning	J. H. Blessing	326,195	Sept. 15	1303	537	32	1069
Plumb-bob	A. Leidgen	329,573	Nov. 3	208	54	33	544
Plumber's heater	J. B. Wallace	319,868	June 9	1220	392	31	1279
Plumber's trap	P. J. Clancy	330,679	Nov. 17	1665	448	33	440
Plumber's trap	C. E. Heiss	314,670	Mar. 31	2204	585	30	1237
Plumber's trap	J. A. Whitney	326,612	Sept. 22	1857	486	32	1379
Plumbers' traps. Apparatus for making	J. McCloskey	327,292	Sept. 29	2800	729	32	1555
Plumbers' traps. Making	J. A. Whitney	326,611	Sept. 22	1854	486	32	1378
Plush articles of clothing. Making	C. Theinert and S. Christiansen	326,348	Sept. 15	1521	395	32	1311
Pneumatic dispatch and speaking tube system	R. J. P. Goodwin	322,178	July 14	1049	272	32	199
Pneumatic-dispatch-tube system	C. M. Johnson	332,905	Dec. 22	2400	634	33	1448
Pneumatic motor	G. W. Seovill	330,265	Nov. 10	1124	299	33	788
Pneumatic separator	D. Car-Skaden	310,251	Jan. 6	112	31, 32	30	82
Pneumatic systems. Engine for	C. L. Broadbent	324,076	Aug. 11	906	250	32	698
Pneumatic tool	J. S. McCoy	323,053	July 28	2245	593	32	431
Pneumatic tool	J. S. McCoy	326,312	Sept. 15	1473	383	32	1362
Pocket	L. F. Roberts	320,171	June 16	1641	437	30	1122
Pocket and cap. Combined detachable	A. Heller	314,333	Mar. 24	1753	467	30	1291
Pocket and protector. Detachable	A. Warshoar	332,310	Dec. 15	1559	410	33	352
Pocket-book	I. S. Emery	316,346	Apr. 21	1875	496	31	477
Pocket-book coin attachment	G. W. Scales	316,664	Apr. 28	2306	605	31	215
Pocket for garments	M. P. Bray	328,378	Oct. 13	1135	293	33	315
Pocket for garments	M. P. Bray	322,379	Oct. 13	1136	303	33	315
Pocket for pantaloons. Combination	J. Felas	319,570	June 9	612	216	31	1207

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dis.	Vol.	Page.
Pocket for watches. Safety.	W. C. Beetchenow	327,854	Oct. 6	449	117	33	79
Pocket for wearing-apparel.	S. A. Goodale	326,971	Sept. 29	2381	623	32	1420
Pocket-knife.	R. G. Hunter	333,466	Dec. 29	3176	829	33	1590
Pocket-knife.	C. H. Kahler	323,938	Aug. 11	721	201	32	666
Pocket-knife.	C. H. Kahler	332,537	Dec. 15	1887	493	33	1347
Pocket-knife.	W. F. Rockwell	317,208	May 5	384	96	31	523
Pocket-knife and scissors. Combined.	F. A. Clanberg and E. Butzmühlen	318,699	May 26	2369	632	31	984
Pocket-protector.	J. F. McCrystal and J. A. Stegfried	320,882	June 23	2618	693	31	1551
Points and signals. Mechanism for actuating and interlocking.	H. A. Johnson	317,137	May 5	277	70	31	574
Poison-distributor.	J. P. Duncan and E. D. Pillow	321,011	June 30	2801	745	31	1591
Poison. Vermin.	J. D. Womack	328,445	Oct. 13	1230		33	233
Poke and muzzle. Combined.	J. H. Downing	326,634	Sept. 22	1853	493	32	1383
Poke. Animal.	W. H. Bosworth	321,789	July 7	516	136	32	96
Poke. Animal.	S. M. Moore	320,492	June 23	2122	579	31	1457
Poke. Animal.	D. F. Sandusky	329,220	Oct. 27	2312	599	33	442
Poke. Animal.	D. R. Saunders and J. E. Welling	332,114	Dec. 8	1294	336	33	1937
Poke. Horse and mule.	W. Simms	314,823	Mar. 31	2500	665	30	1294
Poker, tongs, and stove-lid lifter.	S. E. Fish and C. G. King	331,954	Dec. 8	1050	273	33	1196
Polariscope.	W. G. King	334,560	Aug. 18	1564	432	32	829
Pole and shaft coupling.	G. E. Thomas	319,348	June 2	503	137	31	1144
Pole and shaft for vehicles.	H. N. Timms	313,128	Mar. 3	117	28, 29	30	708
Pole and shafts.	J. M. Jacobsen	326,987	Sept. 29	2399	627	32	1483
Pole cap. Wagon.	R. Sergeant	331,007	Nov. 24	2096	567	33	928
Pole-changer.	E. W. Smith	332,845	Dec. 22	2307	607	33	1431
Pole-iron.	N. E. Springsteen	317,681	May 12	1010	282	31	714
Pole or shafts. Vehicle.	T. Lauzon	326,301	Sept. 15	1461	380	32	1299
Pole tip. Vehicle.	A. W. Bagg	326,379	Sept. 15	1554	404	32	1317
Pole. Wagon.	N. E. Springsteen	310,671	Apr. 28	2318	608	31	439
Polishing composition.	H. L. Haas	331,632	Dec. 1	592		33	1101
Polishing or emery cord.	D. M. Church	328,004	Oct. 13	646	170	33	124
Polishing painted, varnished, or japanned surfaces. Machine for.	I. E. Ingraham and R. B. Codling	325,610	Sept. 1	518	130	32	1114
Polishing-wheel.	W. A. Knipe	317,800	May 12	1166	309	31	744
Polo-goal.	P. F. Baker	331,756	Dec. 8	773	195	33	1144
Pomace for keeping the extract clear. Treating.	A. Blaker	319,549	June 9	786		31	1202
Pool-ball cabinet.	L. H. F. Coquard and F. A. McGinnis	323,854	Aug. 4	603	169	32	637
Pool-ball rack and spotter.	G. Henkel	322,602	July 21	1609	425	32	308
Pool-rack.	C. Miller	311,843	Feb. 3	490	134	30	441
Pool-rack and ball-spotter. Combined.	T. M. Walker	323,835	Aug. 4	581	164	32	632
Pool-rack. Self-tallying.	N. C. Peterson and P. E. Larson	332,827	Dec. 22	2284	602	33	1427
Pool-tables. Electric indicator for.	E. Curtis	313,404	Mar. 3	511	134	30	872
Pool-tables into billiard-tables. Device for converting.	W. P. Waggoner	328,092	Oct. 13	766	200	33	145
Portable camera.	S. C. Nash	315,156	Apr. 7	234	57	31	42
Portable elevator.	S. W. Rowell	312,387	Feb. 17	1268	350	30	600
Portable furnace.	J. W. Babbitt	321,332	June 30	3204	854	31	1665
Portable furnace.	W. H. H. Knight	320,799	June 23	2509	665	31	1531
Portable furnace.	W. H. H. Knight	320,800	June 23	2512	665	31	1531
Portfolio.	S. D. King	326,750	Sept. 22	2068	538	32	1416
Portfolio.	W. H. Weir	325,294	Sept. 1	91	26	32	1032
Post:							
See Fence-post. Iron post.							
Post-and-stake bar.	W. Cronk	318,601	May 26	2243	601	31	960
Post-driver.	J. G. Stigers	331,740	Dec. 1	744	188	33	1130
Post-driver.	A. Weeden	332,687	Dec. 15	2097	551	33	1384
Post-hole digger.	R. Cummings	313,476	Mar. 10	613	159	30	899
Post-hole digger.	J. E. Davis	318,359	May 19	1917	517	31	893
Post-hole digger.	F. E. Kohler	325,212	Aug. 25	2458	676	32	1002
Post-hole digger.	F. E. Kohler	327,557	Oct. 6	74	16	33	14
Post-hole-digging implement.	T. S. Disston	333,452	Dec. 29	3155	825	33	1587
Post-office distribution and delivery box.	B. Van Gaasbeek	328,826	Oct. 20	1728	449	33	331
Post or pole.	J. Smith	321,543	July 7	193	51	32	38
Pot:							
See Coffee-pot. Paint-pot.							
Coffee and tea pot. Slag-pot.							
Coffee or tea pot. Slag and matte pot.							
Flower-pot. Tea or coffee pot.							
Pot-hook or trammel.	A. Bittner	326,835	Sept. 22	2189	571	32	1438
Potash. Apparatus for the manufacture of prussiate of.	E. R. Carhuff	310,376	Jan. 6	288	79	30	55
Potassium. Manufacture of ferro-cyanide of.	H. Bower	312,248	Feb. 17	1078		30	564
Potato cleaning and grading machine.	I. V. Puterbaugh	313,105	Mar. 3	91	23	30	793
Potato-digger.	A. Ansley	324,911	Aug. 25	2063	564	32	928
Potato-digger.	C. W. Ashley	324,743	Aug. 18	1819	503	32	877
Potato-digger.	W. Benedict	311,635	Feb. 3	235	66	30	393
Potato-digger.	A. Corbin, Jr.	319,793	June 9	1113	295	31	1261
Potato-digger.	C. J. Cummings	332,644	Dec. 15	2037	534	33	1374
Potato-digger.	N. K. De Laflame	316,949	May 5	23	7	31	527
Potato-digger.	A. T. Dowden	316,015	Apr. 21	1439	375	31	274
Potato-digger.	W. Eddy	318,236	May 19	1749	467	31	882
Potato-digger.	W. T. Garrett	319,478	June 9	690	186	31	1185
Potato-digger.	I. W. Hoover	318,254	May 19	1768	473	31	866
Potato-digger.	C. F. Hornbeck	318,113	May 19	1591	425	31	832
Potato-digger.	S. Huber	313,670	Mar. 10	857	223	30	947
Potato-digger.	L. G. Jackson	330,898	Nov. 24	1955	529	33	900
Potato-digger.	N. Keeler	327,882	Oct. 6	481	126	33	85
Potato-digger.	S. W. Kelchner	331,505	Dec. 1	351	95	33	1061

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Potato-digger	G. W. and H. E. Kintz	317,546	May 12	836	215	31	683
Potato-digger	W. F. Letsch	320,369	June 16	1944	512	31	1415
Potato-digger	H. H. Lovejoy	331,724	Dec. 1	723	181	33	1125
Potato-digger	H. and J. Nelson	321,629	July 7	296	79	32	57
Potato-digger	J. Pentreath	331,062	Nov. 24	2190	593	33	946
Potato-digger	B. D. Prentice	316,657	Apr. 23	2297	603	31	436
Potato-digger	A. L. Purdy	327,017	Sept. 29	2436	637	32	1490
Potato-digger	W. D. Robinson	325,631	Sept. 1	548	139	32	1119
Potato-digger	P. Sinnott	329,780	Nov. 3	476	180	33	585
Potato-digger	J. Spring	324,424	Aug. 18	1396	360	32	798
Potato-digger	H. Strait	328,079	Oct. 13	748	196	33	142
Potato-digger	F. M. Thorn	327,357	Sept. 29	2892	755	32	1570
Potato-digger	C. S. Torrey	326,461	Sept. 15	1850	431	32	1334
Potato-digger	F. O. Williams, A. and J. C. Mattice	324,202	Aug. 11	1096	296	32	734
Potato-digger	G. Wrang	318,073	May 19	1540	412	31	622
Potato-digger and bean-harvester	C. Peets	331,321	Dec. 1	87	21	33	1014
Potato-digger and coverer	C. Baker	325,475	Sept. 1	350	85	32	1082
Potato-digger and gatherer	J. S. Hoyt	317,792	May 12	1155	306	31	743
Potato-digging machine	J. Holt	319,581	June 9	830	221	31	1210
Potato or manure fork	M. Jincks	329,046	Oct. 27	2066	536	33	307
Potato-peeling machine	C. E. Herzog	325,078	Aug. 25	2223	628	32	970
Potato-vines. Machine for sprinkling	N. L. Kinney	320,130	Nov. 10	962	250	33	685
Potato-vines with a poisonous solution. Machine for sprinkling	A. O. Packard	322,747	July 21	1801	475	32	343
Pottery and glassware and finishing or turning the same. Machine for forming	C. C. Thompson	319,760	June 9	1062	282	31	1253
Pottery-kilns. Apparatus for the utilization or disposition of surplus or waste heat in	R. Porter	324,882	Aug. 25	2022	534	32	921
Pottery. Molding	G. Ligowsky	314,917	May 26	2664	541	31	1036
Pottery-press	J. S. H. Lovett	320,060	Oct. 27	2053	541	33	400
Pottery-ware. Decoration of.	C. Graham	315,021	Apr. 7	46	10	31	10
Pottery-ware. Press for forming articles of	J. Crossley and H. T. Cook	320,541	June 23	2189	578	31	1469
Poultry-house runway	J. G. Stanton	322,075	July 14	914	327	32	174
Poultry-scalding box	R. H. Horne and S. C. Smith	329,742	Nov. 3	428	109	33	596
Pounder or washing-machine	C. Critchfield	320,226	Nov. 10	1167	310	33	736
Pounding and washing machine	W. C. Nelson	328,136	Oct. 13	816	213	33	155
Powder:							
See Baking-powder. Blasting-powder.							
Powder-box	W. C. Walter	329,787	Nov. 3	485	123	33	597
Powder-charger	H. C. Severance	322,346	Oct. 13	1082	282	33	206
Powder for roofing and other purposes.	L. Brown	328,644	Oct. 20	1506	33	328	
Powder-gun	J. A. Peer	326,324	Sept. 15	1487	387	32	1304
Powder-keg discharge-tube	A. H. Witman	315,874	Apr. 14	1241	323	31	232
Powder-puff	J. C. Austin	324,800	Aug. 25	1915	526	32	901
Powder-puff	E. A. Bailey	323,255	July 28	2515	686	32	422
Powder-puff	A. Bender	319,056	June 2	151	41	31	1075
Power:							
See Animal-power. Lever-power.							
Baling-press power. Mechanical power.							
Churn-power. Motive power.							
Hand-power. Tidal power.							
Hand and foot power. Water-power.							
Horse-power.							
Power by steam under pressure. Storing	M. Honigmann	324,696	Aug. 18	1768	427	32	867
Power. Device for transmitting.	A. L. Colburn	315,735	Apr. 14	1056	276	31	198
Power. Device for transmitting	W. H. Dodge	320,544	June 23	2193	579	31	1470
Power. Device for transmitting	G. R. Mitchell	326,914	Sept. 29	2301	602	32	1458
Power-jack	J. W. Massey	315,309	Apr. 7	452	114	31	82
Power mechanism for operating steam-hammers, &c.	J. W. Pertz	325,860	Sept. 8	865	217	32	1181
Power-press	E. Barrath	316,935	May 5	8	3	31	594
Power-press	R. H. Clark	319,125	June 2	315	84	31	1106
Power-press	F. W. Cross	327,660	Oct. 6	220	54	33	30
Power-press	A. H. Merriman	316,989	May 5	77	21	31	537
Power-press	N. C. Stiles	329,236	Oct. 27	2332	604	33	446
Power-presses. Automatic trip-gear for	M. M. Wilson	331,065	Dec. 1	633	156	33	1109
Power. Storing	M. Honigmann	333,222	Dec. 29	2849	745	33	1533
Power-transmitter. Variable frictional	M. L. Metzger and A. Cooper	313,831	Mar. 10	1079	220	30	966
Power-transmitting apparatus	L. G. Careaga y Saenz	321,063	June 30	2900	771	30	1086
Power-transmitting device	J. Ward	314,207	Mar. 17	1579	418	32	817
Power-transmitting machinery	E. Winans	324,509	Aug. 18	1507	413	31	235
Precious metals. Apparatus for reducing the ores of	J. A. Bailey	315,826	Apr. 14	1261	329	31	235
Preserver. Portable meat and fruit	J. Goldsmith	333,123	Dec. 29	2713	712	33	1509
Preserving	W. Ihno	328,223	Oct. 13	928	31	32	177
Preserving and displaying vegetables, &c. Apparatus for	G. D. Basse	325,310	Sept. 1	108	31	32	1035
Preserving and transporting oysters, &c. Apparatus for	D. W. Simonson	314,732	Mar. 31	2284	606	30	1222
Preserving animal matters.	G. Holgate	326,035	Sept. 8	1082	247	32	1222
Preserving apparatus. Fruit and vegetable	L. H. Moise	325,954	Sept. 8	973	247	32	1203
Preserving by gases. Apparatus for	G. Holgate	313,736	Mar. 10	947	245	30	962
Preserving by vacuum and pressure. Apparatus for	D. H. Dickinson	328,016	Oct. 13	663	174	33	127
Preserving compound	R. A. McDaniel	329,578	Nov. 3	213	54	33	545
Preserving food	A. G. T. Ripberger	317,673	May 12	999	31	31	757
Preserving food. Case for	J. J. Hoyt	313,076	Mar. 3	50	13	30	798
Preserving fruits, &c. Device for	M. A. Tipney	313,129	Mar. 3	119	29	30	798
Preserving meats, &c. Apparatus for	W. Balder	332,988	Dec. 22	2513	664	33	1468

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr-g.	Vol.	Page.
Press:							
See Backing, plowing, and gilding press.	Hydraulic press.						
Baling-press.	Jeweler's press.						
Bark-press.	Oil-press.						
Barrel-press.	Pottery-press.						
Brick-press.	Power-press.						
Cheese-press.	Printing-press.						
Cider-press.	Punching-press.						
Cider and wine press.	Screw-press.						
Copying-press.	Seal-press.						
Corset-press.	Sheet-metal-cutting press.						
Cotton-press.	Sheet-metal-drawing press.						
Cotton and hay press.	Stamping-press.						
Drill-press.	Tobacco-press.						
Harness-pad press.	Wine-press.						
Hay-press.	Wine and cider press.						
Hay or cotton press.							
Press	J. H. Book	313,914	Mar. 17	1905	{ 314 315 }	30	1017
Press	R. E. Boschert	319,185	June 2	304	81	31	1104
Press	W. S. Ford	311,824	Feb. 3	466	{ 126 127 }	30	436
Press	S. T. Richardson	311,368	Jan. 27	1622	446	30	320
Press-box	G. B. Boomer	314,911	Mar. 31	2551	674	30	1300
Press for soaking bran, sawdust, &c	A. L. Battson. (Reissue).	10,595	May 12	1380	370	31	786
Press for separating liquid and solid matter	H. W. Lafferty	332,718	Dec. 22	2154	{ 568 569 }	33	1401
Presses. Strain-indicator for screw-	R. E. Boschert	319,800	Feb. 24	1826	502	30	711
Presser-clamp	F. N. Abbott	330,363	Nov. 17	1269	337	33	763
Presser-foot	T. F. Hart	331,788	Dec. 8	806	205	33	1150
Presser-roll	G. F. Wethorell and R. B. Jones	318,064	May 19	1527	410	31	820
Pressure-gage	A. V. Hartwell	324,251	Aug. 11	1152	314	32	744
Pressure-gage	S. Wilcox	323,992	Aug. 11	788	219	32	679
Pressure-governor and regulating-valve	L. Shook	320,302	June 16	1824	485	31	1394
Pressure-indicating gage	C. H. Fisher and P. Schwamb	323,033	July 28	2216	586	32	425
Pressure indicator. High-	A. T. Willard	318,152	May 19	1640	438	31	841
Pressure-regulator	P. Ball and J. R. Smith	329,119	Oct. 27	2169	562	33	415
Pressure-regulator	J. Demarest	317,746	May 12	1094	287	31	730
Pressure-regulator	W. T. Fox	319,896	June 9	1264	331	31	1287
Pressure-regulator	F. A. Jones	330,240	Nov. 10	1093	{ 228 229 }	33	721
Pressure-regulator	J. W. Kenyon	329,177	Oct. 27	2243	581	33	429
Pressure-regulator	C. Pfandler	323,364	July 28	2681	714	32	510
Pressure-regulator	G. Westinghouse, Jr	310,347	Jan. 6	254	70	30	48
Pressure-regulator	F. Widmer	323,093	July 28	2299	607	32	441
Pressure-regulator	M. G. Wilder	332,768	Dec. 22	2215	584	33	1414
Pressure-regulator and cut-off	G. Westinghouse, Jr	312,543	Feb. 17	1494	407	30	641
Pressure-regulator and cut-off	G. Westinghouse, Jr	324,905	Aug. 25	2056	563	32	927
Pressure-regulator and relief-valve	G. Westinghouse, Jr	310,348	Jan. 6	255	70	30	48
Pressure-regulator. Automatic	T. C. Hopper	329,681	Oct. 20	1552	404	33	297
Pressure-regulator. Automatic	W. S. Payne	332,757	Dec. 22	2190	578	33	1409
Pressure-regulator. Fluid-	R. R. Beard and W. H. Oakley	330,333	Nov. 17	1506	403	23	807
Pressure-regulator. Fluid-	M. S. Cabell and W. W. Abney	322,519	July 21	1505	396	32	290
Pressure-regulator. Fluid-	J. F. De Pew	332,045	Dec. 15	2038	535	33	1374
Pressure-regulator. Fluid-	B. Fitts	333,403	Dec. 20	2090	806	33	1576
Pressure-regulator. Fluid-	I. J. Griffin	317,991	May 19	1430	383	31	803
Pressure-regulator. Fluid-	R. Spear	331,008	Nov. 24	2097	568	33	928
Pressure-regulator for carburetors, &c	A. H. Philippi	324,160	Aug. 11	1023	279	32	720
Primary and secondary battery	G. Fournier	316,533	Apr. 28	2142	513	31	407
Primary or galvanic battery	E. T. Starr	321,917	July 7	694	181	32	126
Primer. Electric	S. Russell	319,627	June 9	896	237	31	1222
Printed. Mechanism for feeding boards to be	A. H. Walker	324,195	Aug. 11	1026	293	32	733
Printed sheets of paper. Machine for varnishing	J. T. Hawkins	310,200	Jan. 6	54	15	30	13
Printer's case. Job-	G. W. Butler	336,475	Sept. 15	1666	435	32	1337
Printer's chase.	L. W. Hardwicke	332,516	Dec. 15	1847	482	33	1340
Printer's dash	J. R. Cummings	329,369	Oct. 27	2536	653	33	462
Printer's drying-rack	H. F. Gray	315,022	Apr. 7	47	10	31	10
Printer's form	F. K. Tracy	314,495	Mar. 24	1975	525	30	1169
Printer's gage-clamp	J. J. Floyd	329,896	Nov. 10	645	184	33	632
Printer's galley	W. H. Golding	329,159	Oct. 27	2224	576	33	425
Printer's galley	D. B. Watts	329,686	Dec. 15	2096	551	33	1384
Printers' inking-rollers. Mold for making	J. H. Osgood	328,247	Oct. 13	958	249	33	162
Printers' leads. Machine for making	N. R. Lyman	315,045	Apr. 7	81	20	31	16
Printers' leads, slugs, &c. Machine for shaving	W. F. Klose	314,384	Mar. 24	1818	484	30	1142
Printer's locking-quoil	J. N. O. Hankinson	326,428	Sept. 15	1613	420	32	1327
Printer's quoil	J. R. Drodzewski and J. McConnell	326,484	Sept. 15	1676	438	32	1359
Printer's quoil	J. N. O. Hankinson	312,445	Feb. 24	1859	518	30	722
Printer's quoil	W. Hendrickson	312,850	Feb. 24	1896	519	30	723
Printer's quoil	J. McConnell	326,438	Sept. 15	1625	425	32	1329
Printers' rollers. Machine for stripping	H. Baker	310,544	June 9	779	207	31	1201
Printer's rule	A. D. Stern	312,302	Feb. 17	1161	317	30	579
Printer's rule-mitering machine	A. Pilly	328,017	Oct. 13	664	175	33	127
Printing apparatus	J. W. Horner	316,368	Apr. 21	1776	467	31	335
Printing apparatus. Chromatic	H. R. Allen	322,147	July 14	1014	264	32	803
Printing-bars. Machine for producing	O. Mergenthaler	313,224	Mar. 3	268	{ 67 68 69 70 71 }	30	826
Printing-bars. Machine for producing	O. Mergenthaler	317,838	May 12	1905	{ 319 320 321 }	31	752
Printing. Device for chromatic	T. H. Lindley and F. M. Robinson	330,719	Nov. 17	1718	463	33	850

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.
				Spec.	Dis.	
Printing-machine	E. Anthony	314,556	Mar. 31	9056	548 549 550	20 1211
Printing-machine	E. Anthony	324,974	Aug. 25	2144	586	32 944
Printing-machine	E. Anthony	324,975	Aug. 25	2145	586	32 944
Printing-machine	E. Anthony	324,976	Aug. 25	2146	587 586	32 945
Printing-machine	E. Anthony	325,146	Aug. 25	2265	651 652	32 985
Printing-machine	J. Brooks	322,080	July 14	932	941	32 173
Printing-machine	J. Brooks	322,081	July 14	933	941	32 178
Printing-machine	C. B. Cottrell	327,243	Sept. 29	2737	710 711 590	32 1544
Printing-machine	L. C. Crowell	324,986	Aug. 25	2160	591 592 593	32 947
Printing-machine	L. C. Crowell	325,197	Aug. 25	2435	669 670	32 996
Printing-machine	M. Davis	323,024	July 28	2199	582 583	32 423
Printing-machine	H. P. Felster	323,925	Aug. 11	703	197	32 663
Printing-machine	G. C. Gill	311,076	Feb. 10	704	193	30 498
Printing-machine	P. Jackson	322,600	July 21	1622	420	32 311
Printing-machine	A. W. Jerome	326,988	Sept. 29	2400	697	32 1424
Printing-machine	C. Machris	318,383	May 19	1948	526	31 699
Printing-machine	R. Miehle	322,309	July 14	1903	315 316 317	32 223
Printing-machine	J. G. Northrup	321,630	July 7	298	79, 60	32 57
Printing-machine	W. H. Price, Jr.	318,798	May 26	2509	669 670	31 1007
Printing-machine	E. Prouty	317,470	May 5	736	186	31 654
Printing-machine	W. Scott	312,022	Feb. 10	767	209	30 498
Printing-machine	W. Scott	312,829	Feb. 17	1272	351	30 714
Printing-machine	W. Scott	317,679	May 12	1006	261	31 714
Printing-machine beds. Mechanism for operating	J. T. Hawkins	319,246	June 2	379	101 102	31 1119
Printing-machine. Chromatic	F. L. and S. G. Goss	323,214	Dec. 29	2235	742	33 1590
Printing-machine. Chromatic	W. Scott	312,760	Feb. 24	1724	492	30 704
Printing-machine. Chromatic	J. B. Underwood	323,490	Dec. 29	2306	830	33 1596
Printing-machine. Chromatic	W. Wheeler, Jr.	323,493	Dec. 29	3210	840	33 1596
Printing-machine chromatic attachment	W. H. Golding	322,441	July 21	1326	364 365	32 390
Printing-machine. Cylinder	J. L. Cox	322,138	Dec. 8	1329	344 345	33 1943
Printing-machine. Cylinder	J. L. Cox	322,139	Dec. 8	1332	345	33 1943
Printing-machine. Cylinder	J. T. Hawkins	323,070	Dec. 22	2625	688 689	33 1466
Printing-machine. Cylinder	W. Scott	321,539	July 7	185	49	32 37
Printing-machine. Cylinder	W. Scott	322,132	July 14	988	257 258	32 190
Printing-machine delivery apparatus	E. Anthony	314,556	Mar. 31	2053	547 548	30 1211
Printing-machine delivery apparatus	A. Campbell	323,394	Aug. 4	14	4	32 585
Printing-machine delivery apparatus	W. Scott	317,218	May 5	395	99	31 595
Printing-machine delivery apparatus	S. D. Tucker	324,967	Aug. 25	2133	583 584	32 943
Printing-machine delivery mechanism	W. Scott	318,808	May 26	2523	673 674	31 1000
Printing-machine dier	L. W. Hyde and A. H. Seaman	321,606	July 7	271	72	32 82
Printing-machine gripper	P. Lindemeyer, Jr.	323,168	July 28	2394	635	32 459
Printing-machine gripper-motion	A. Campbell	321,682	July 7	362	94, 97	32 66
Printing-machine ink fountain	T. E. Bomar	326,938	Sept. 29	2339	612	32 1472
Printing-machine ink-table	E. A. Warren	320,533	Nov. 17	1488	398	33 604
Printing-machine inking apparatus	T. H. Fitnam	327,248	Sept. 29	2744	712 713	32 1545
Printing-machine inking apparatus	J. T. Hawkins	326,215	Sept. 15	1332	345	32 1275
Printing-machine inking apparatus	G. A. Wilson	320,278	Nov. 10	1140	303	33 731
Printing-machine inking mechanism	J. W. Osborne	317,444	May 12	1223	324	31 755
Printing-machine. Lithographic	C. Potter, Jr.	317,194	May 5	365	91	31 590
Printing-machine. Oscillating-cylinder	J. T. Hawkins	324,253	Aug. 11	1154	314 315	32 745
Printing-machine. Rubber-stamp band	R. Gaiger	312,455	Feb. 17	1366	377	30 618
Printing-machine sheet-delivery apparatus	C. B. Cottrell	319,460	June 9	664	178 179	31 1121
Printing-machine sheet-delivery apparatus	L. C. Crowell	313,475	Mar. 10	610	158 159	30 899
Printing-machine sheet-delivery apparatus	J. T. Hawkins	323,071	Dec. 22	2629	689	33 1466
Printing-machine sheet-delivery mechanism	W. Scott	318,143	May 19	1629	435	31 699
Printing-machine sheet-delivery mechanism	W. Scott	325,118	Aug. 25	2292	641	32 979
Printing-machine sliding bearer	S. Whitlock	322,577	Dec. 15	1944	509	33 1357
Printing-machine. Stenographic	G. K. Anderson	323,286	July 28	2559	681	32 490
Printing-machine type-bed	J. T. Hawkins	322,940	Oct. 27	1899	456 222 223 224	33 366
Printing-machine. Web-perfecting	L. C. Crowell	317,740	May 12	1077	222 223 224	31 720
Printing-machine. Web-perfecting	J. T. Hawkins	322,518	Dec. 15	1849	423 424	33 1341
Printing-machine. Web-perfecting	J. T. Hawkins	322,519	Dec. 15	1854	425	33 1341
Printing-machine. Web-perfecting	J. T. Hawkins	322,521	Dec. 15	1861	426 427	33 1342
Printing-machine. Wood	J. R. Cross	317,518	May 12	803	206	31 677

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Printing machines. Delivery mechanism for web...	L. C. Crowell	317,741	May 12	1083	{ 284 285 }	31	729
Printing-machines. Sheet-delivery for oscillating-cylinder	J. T. Hawkins	326,216	Sept. 15	1334	345	32	1275
Printing-machines. Sheet-delivery for oscillating-cylinder	J. T. Hawkins	328,939	Oct. 27	1897	496	33	368
Printing-machines. Sheet-flier for	L. W. Hyde and A. H. Seaman	324,939	Aug. 25	2096	573	32	936
Printing machinery. Plate	J. Milligan	321,743	July 7	445	118	32	83
Printing marks on the margins of sheets. Mechanism for	L. C. Crowell	316,121	Apr. 21	1590	{ 414 415 }	31	301
Printing on boards. Press for	V. M. Lamb	330,243	Nov. 10	1096	290	33	722
Printing paper-bag tubes. Type-form for	A. J. Boynton	331,372	Dec. 1	163	42	33	1027
Printing-plates. Producing gelatinous	W. B. Woodbury	310,486	Jan. 6	410	.....	30	79
Printing-plates. Producing photo-mechanical	L. De Roux	322,046	July 14	875	.....	32	108
Printing-press	C. B. Cottrell	314,166	Mar. 17	1529	401	30	1078
Printing-press	G. P. Fenner	311,735	Feb. 3	355	98	30	416
Printing-press buffer-spring	J. T. Hawkins	313,205	Mar. 3	243	61	30	822
Printing-press card-feeding attachment	S. A. Spencer	314,203	Mar. 17	1575	417	30	1086
Printing-press delivery apparatus	C. B. Cottrell	319,458	June 9	659	{ 177 178 }	31	1110
Printing-press delivery apparatus	J. S. Scheidell	323,215	July 28	2465	655	32	473
Printing-press delivery apparatus	W. Scott	316,663	Apr. 28	2307	606	31	438
Printing-press feeder. Electrical	J. A. Wetmore	322,335	July 14	1237	{ 324 325 }	32	235
Printing-press feeding attachment	E. Yates	322,670	July 21	1696	450	32	325
Printing-press feeding attachment. Cylinder	S. C. Cox	317,029	May 12	1338	359	31	777
Printing-press gearing	S. Whitlock	322,576	Dec. 15	1943	509	33	1356
Printing-press ink-fountain	J. T. Hawkins	318,617	May 26	2262	604	31	963
Printing-press receiving table	A. Overend	312,217	Feb. 10	1037	284	30	547
Printing-press sheet-delivering apparatus	B. Huber	311,432	Jan. 27	1715	407	30	335
Printing-press sheet-delivery apparatus	J. T. Hawkins	323,330	July 28	2631	706	32	502
Printing-press sheet-delivery apparatus	J. T. Hawkins	323,331	July 28	2633	{ 700 701 }	32	502
Printing-press sheet-delivery apparatus	W. Scott	316,189	Apr. 21	1674	439	31	318
Printing-press sheet-delivery mechanism	J. T. Hawkins	319,249	June 2	380	102	31	1119
Printing-press sheet-flier	G. P. Fenner	317,329	May 5	549	140	31	623
Printing-presses. Chain and chain-guide for sheet-delivery apparatus for	C. B. Cottrell	319,459	June 9	663	178	31	1180
Printing-presses. Consecutive printing attachment for	C. Racine	327,591	Oct. 6	118	27	33	22
Printing-presses, &c. Counter for	C. T. Brown	323,382	July 28	2704	720	32	515
Printing-presses, &c. Counter for	C. T. Brown	324,002	Aug. 11	801	{ 222 223 }	32	680
Printing-presses. Dampening-machine for	W. Scott	325,867	Sept. 8	872	220	32	1183
Printing-presses. Device for giving positive motion to sliders of	R. Miehe	330,040	Nov. 10	834	214	33	668
Printing-presses. Mechanism for evening sheets of paper on fly-boards of	M. W. Brush and M. A. Salomons	316,329	Apr. 21	1853	490	31	348
Printing rollers or blocks. Making	F. Beck	332,377	Dec. 15	1659	.....	33	1308
Printing-surface	F. Beck	320,208	June 16	1698	449	31	1371
Printing-surfaces. Machine for justifying matrices for producing	F. D. Maltby	332,352	Dec. 15	1618	425	33	1302
Printing-surfaces. Matrix for	J. O. Clephane	311,411	Jan. 27	1696	480	30	331
Printing-surfaces. Preparation of lithographic	J. Eberle	310,251	Apr. 21	1753	.....	31	331
Printing-surfaces. Producing	J. O. Clephane	311,414	Jan. 27	1691	461	30	331
Printing-surfaces. Producing	M. Joyoe	833,129	Dec. 29	2721	714	83	1511
Printing-surfaces. Producing	O. Mergenthaler	311,350	Jan. 27	1603	{ 438 439 }	30	315
Printing textile fabrics	M. Conrad	322,465	Oct. 20	1254	.....	33	244
Privy-sink	P. Cassidy	331,682	Dec. 1	662	164	33	1115
Profile-cutting machine	H. Schumann	324,491	Aug. 18	1477	{ 404 405 }	32	812
Programme and hat holder	J. Badger	323,773	Aug. 4	512	143	32	619
Programme-signal. Electric	R. B. Carr	319,782	June 9	1092	{ 290 291 }	31	1258
Projectile	L. Hopson	313,075	Mar. 3	49	13	30	787
Projectile. Explosive	J. Hunter	325,608	Sept. 1	516	129	32	1113
Projectile. Line-throwing	P. B. Roys	310,852	Jan. 13	892	239	30	172
Projectile. Pneumatic	W. T. Chamberlain	310,649	Jan. 13	625	173	30	125
Projectile. Pneumatic	W. T. Chamberlain	312,971	Feb. 24	2047	558	30	750
Projectile. Pneumatic	W. T. Chamberlain	312,972	Feb. 24	2048	559	30	750
Prop-block cushion	J. H. Alexander	324,632	Aug. 18	1684	464	32	851
Propeller	J. J. Williams	312,781	Feb. 24	1803	496	30	707
Propeller	J. Woolf	316,592	Apr. 28	2217	583	31	421
Propeller and machinery therefor. Steamship	R. Wilcox	315,199	Apr. 7	307	74	31	55
Propeller. Boat	A. Shoeminger	328,527	Oct. 20	1330	345	33	258
Propeller. Buoyant screw	G. S. Burr	333,445	Dec. 29	3145	922	33	1585
Propeller. Canal-boat	P. O'Connor	315,159	Apr. 7	240	58, 50	31	44
Propeller. Endless-chain	A. J. Krausmann	328,123	Oct. 13	803	209	33	152
Propeller for boats. Hand	M. Bätz	312,071	Feb. 10	824	225	30	509
Propeller for steamboats. Buoyant	W. Hall	331,496	Dec. 1	341	92	33	1059
Propeller for vessels	C. E. Baker	328,559	Oct. 20	1378	359	33	266
Propeller. Marine speed	J. S. Post	312,381	Feb. 17	1261	348	30	599
Propeller. Screw	J. Belduke	329,528	Nov. 3	146	37	32	533
Propeller. Screw	A. D. De Brulgnac	329,622	Nov. 3	539	{ 137 138 }	33	605
Propeller. Screw	E. H. Hall	332,710	Dec. 22	2144	566	33	1399
Propeller. Screw	H. Schulze-Berge	317,582	May 12	880	226	31	691
Propeller. Screw	A. Vogelsang	332,309	Dec. 15	1558	409	33	1291
Propeller. Ship's	A. F. Barth	317,488	May 12	765	195	31	670
Propeller-wheel	N. Cain	310,789	Jan. 13	804	218	30	158
Propeller-wheels. Device for molding	J. Dalgarno	311,817	Feb. 3	457	124	30	435
Propellers. Mounting screw	R. Forsholm	315,136	Apr. 7	195	48	31	36
Propelling apparatus for steam-vessels. Screw	E. H. Hall	332,709	Dec. 22	2143	566	33	1398

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Propelling device. Boat.....	N. C. Corckran and R. J. Thompson.	397,771	Oct. 6	347	89	33	61
Propelling device for boats.....	C. F. Smith.	314,734	Mar. 31	2256	607	30	1238
Propelling marine vessels.....	W. O. Robbins.	321,138	June 30	2968	708	31	1620
Propelling vessels.....	S. and J. A. Seoor.	313,689	Mar. 10	877	229	30	951
Propelling vessels by exhaust steam.....	C. E. Burch.	313,981	Mar. 17	1296	338	30	1034
Propulsion of ships, &c.....	D. S. Troy.	317,890	May 12	1268	341	31	767
Propulsion of vessels.....	T. Dunlap.	327,927	Oct. 6	547	143	33	96
Protecting-screen for air and light shafts.....	A. A. Hagen.	323,576	Aug. 4	251	74	32	508
Protector:							
<i>See</i> Bed-protector.	Mustache-protector.						
Body-protector.	Neck and ear protector.						
Boot or shoe pro- tector.	Necktie-protector.						
Buggy-top-bow pro- tector.	Nipple-protector.						
Chimney-protector.	Pantaloons-protector.						
Clock-pendulum protector.	Pipe-protector.						
Double-tree pro- tector.	Pipe-joint protector.						
Electrical-apparatus protector.	Plant-protector.						
Face-protector.	Pocket-protector.						
Grain-stack pro- tector.	Skirt-protector.						
Head-protector.	Sole-protector.						
Heel-protector.	Telegraphic and tele- phonic instrument pro- tector.						
Jar-protector.	Telephone and telegraph protector.						
Lightning-protector.	Tree-protector.						
Wash-board protector.	Vest-protector.						
Watch-protector.	Watch-protector.						
Protactor.							
Protactor. Bevel.....	C. W. Brackett.	328,281	Oct. 13	996	960	33	188
Pruning implement.....	G. B. Orendorff.	330,799	Nov. 17	1824	491	33	809
Pruning implement.....	T. B. Williams.	323,009	July 28	2178	578	32	419
Pruning knife and saw combined.....	J. G. Bubach.	317,716	May 12	1051	274	31	723
Pruning-shears.....	C. F. Dean.	314,230	Mar. 24	1613	426	30	1102
Pruning-shears.....	M. L. Smith.	319,033	June 2	121	33	31	1070
Puddling and heating furnace.....	I. M. McKay.	326,314	Sept. 15	1476	384	32	1302
Puddling-furnace.....	W. Richard.	330,737	Nov. 17	1748	470	33	855
Pulley:	T. H. Bennett.	311,802	Feb. 3	439	119	30	431
<i>See</i> Grub-pulley.	J. Webb.	315,096	Apr. 7	150	35	31	28
Stamp-pulley.							
Pulley.....	E. L. Babcock.	313,467	Mar. 10	603	156	30	897
Pulley.....	F. S. and E. B. Belanger.	321,179	June 30	3019	799	31	1630
Pulley.....	R. W. Betts.	318,686	May 26	2352	622	31	980
Pulley.....	W. W. Carey.	322,694	July 28	2016	533	32	359
Pulley.....	W. W. McChesney.	311,023	Jan. 20	1124	307	30	222
Pulley.....	A. C. Pessano.	315,335	Apr. 7	480	121	31	88
Pulley.....	A. C. Pessano.	315,336	Apr. 7	482	122	31	88
Pulley.....	J. Siebert.	319,140	June 2	255	66	31	1094
Pulley.....	G. W. Thompson.	327,120	Sept. 29	2577	672	32	1514
Pulley.....	M. Vandercook, W. P. Smith, and H. M. Baker.	326,732	Oct. 20	1622	422	33	310
Pulley.....	P. Werum.	312,682	Feb. 24	1668	459	30	623
Pulley and belt-shipper for machinery.....	W. H. Gray.	320,434	June 16	2044	536	31	1434
Pulley and wheel lubricator. Loose.....	J. Cornelius.	319,073	June 2	175	47	31	1080
Pulley. Band.....	R. Jones.	326,873	Sept. 22	2245	585	32	1448
Pulley. Band.....	W. H. O'Connor.	319,993	June 16	1407	370	31	1320
Pulley. Belt-driving.....	J. Stanley.	318,519	May 26	2134	575	31	942
Pulley-block.....	T. Barber.	320,206	June 16	1685	448	31	1371
Pulley-block.....	H. Beard.	322,890	July 28	2007	530	32	389
Pulley-block.....	E. F. Robbins.	328,340	Oct. 13	1077	290	33	205
Pulley-block.....	M. R. Skinner.	318,314	May 19	1857	499	31	681
Pulley-block.....	F. S. Taggart.	313,553	Mar. 10	706	184	30	917
Pulley-block. Differential.....	J. Christie.	317,726	May 12	1062	277	31	725
Pulley-block. Differential.....	J. Christie.	317,728	May 12	1064	278	31	725
Pulley. Clothes-line.....	A. J. Bell.	311,160	Jan. 27	1333	367	30	267
Pulley. Composition driving.....	S. Selb.	327,326	Sept. 29	2841	741	32	1562
Pulley. Cone.....	T. F. Lemassena.	318,759	May 26	2452	657	31	998
Pulley-covering.....	J. Withington.	311,402	Jan. 27	1874	456	30	328
Pulley. Dead.....	G. M. Lindsey.	330,598	Nov. 17	1561	418	33	819
Pulley. Divided.....	W. R. Santley.	329,679	Nov. 3	342	87	33	509
Pulley. Friction.....	F. E. Cross.	328,356	Oct. 13	1153	297	33	218
Pulley. Friction-clutch.....	C. A. Lieb.	329,575	Nov. 3	209	55	33	544
Pulley. Friction-clutch.....	H. W. Hill.	312,122	Feb. 10	895	243	30	522
Pulley. Loose.....	G. F. Hutchins.	320,360	June 16	1933	509	31	1413
Pulley lubricator. Loose.....	J. A. Horton.	313,497	Mar. 10	638	166	30	904
Pulley lubricator. Loose.....	F. Gleason.	310,669	Jan. 13	653	179	30	130
Pulley lubricator. Loose.....	W. J. Ormsby.	310,536	Jan. 6	480	134	30	92
Pulley lubricator. Loose.....	W. J. Ormsby.	312,867	Feb. 24	1943	532	30	731
Pulley or crank disk and shaft. Combined.....	W. J. Ormsby.	332,552	Dec. 15	1908	499	33	1350
Pulley or crank disks to shafts. Securing.....	W. A. Bole.	314,789	Mar. 31	2387	631	30	1271
Pulley or wheel.....	W. A. Bole.	314,788	Mar. 31	2386	631	30	1271
Pulley or wheel.....	F. A. H. L. and W. E. Jacobs.	320,475	June 23	2103	554	31	1453
Pulley or wheel.....	J. Lathrop and A. Tyrrell.	323,251	Sept. 1	24	8	32	1020
Pulley. Sash.....	C. S. Wardwell.	328,158	Oct. 13	846	220	33	160
Pulley. Sash.....	H. L. Blodgett.	329,006	Oct. 27	2003	521	33	387
Pulley. Sash.....	J. D. Fyke.	318,890	May 26	2630	698	31	1030
Pulley. Sash.....	T. M. Kenna.	329,317	Oct. 27	2449	614	33	468
Pulley. Sash.....	J. B. Schroder.	315,347	Apr. 7	495	125	31	91
Pulley. Self-lubricating.....	C. Hammelmann.	330,234	Nov. 10	1064	286	33	790
Pulley. Self-lubricating loose.....	G. H. Smith.	318,399	May 19	1970	530	31	903
Pulley-sheave.....	W. H. Snelson.	312,668	Feb. 24	1651	456	30	681
Pulley. Split.....	H. Underwood and C. Schweizer.	327,206	Sept. 29	2694	700	32	1536

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Pulley. Suspender clutch.....	J. Smith.....	325,923	Sept. 8	1009	258	32	1209
Pulley. Suspension.....	J. A. Everts.....	319,214	June 2	337	90	31	1110
Pulley, wheel, &c. Loose.....	M. L. Senderling.....	326,596	Sept. 22	1825	480	32	1375
Pulleys. Apparatus for molding.....	W. J. Early.....	323,302	July 28	2585	688	32	495
Pulleys. Guard for shielding set-screws in.....	S. H. Woodbury.....	315,204	Apr. 7	319	77	31	57
Pulleys. Machine for boring and turning.....	W. J. Muncester.....	326,050	Sept. 8	1098	220	32	1225
Pulp and other fibrous materials. Bleaching wood.....	G. H. Pond.....	321,452	July 7	59	281	32	14
Pulp barrel-bodies. Machine for drying and pressing.....	S. M. Hotchkiss.....	319,976	June 16	1384	363	31	1316
Pulp barrel-bodies. Machine for drying and pressing.....	S. M. Hotchkiss and B. A. Mason.....	318,739	May 26	2421	304	31	993
Pulp barrel-bodies. Manufacture of.....	S. M. Hotchkiss.....	318,737	May 26	2415	646	31	993
Pulp barrel-bodies. Manufacture of.....	S. M. Hotchkiss.....	318,742	May 26	2426	645	31	994
Pulp barrel-bodies. Manufacture of.....	S. M. Hotchkiss.....	329,043	Oct. 27	2059	659	33	396
Pulp barrel-bodies. Manufacture of.....	S. M. Hotchkiss and B. A. Mason.....	318,738	May 26	2418	534	31	993
Pulp barrel-heads. Making.....	S. M. Hotchkiss and B. A. Mason.....	318,740	May 26	2424	535	31	994
Pulp-beating engine. Compound.....	S. L. Gould.....	310,940	Jan. 20	1009	646	31	994
Pulp-engines. Bed-plate for.....	A. A. Simonds.....	310,230	Jan. 6	87	273	30	199
Pulp from paper. Process of and machinery for preparing.....	H. Allen and L. S. Mason.....	320,612	June 23	2281	23	30	19
Pulp from wood. Machine for grinding.....	A. B. Tower.....	311,212	Jan. 27	1398	603	31	1487
Pulp from woody matter. Manufacture of.....	R. P. Pictet and G. L. Brélat.....	331,323	Dec. 1	90	382	30	278
Pulp-grinder.....	W. H. Howell.....	314,844	Mar. 31	2457	383	33	1015
Pulp-grinder.....	W. Wilkeson.....	333,369	Dec. 29	3048	649	30	1284
Pulp into vessels of various kinds. Machine for forming.....	G. M. Stevens.....	320,720	June 23	2419	796	33	1569
Pulp-machine.....	G. M. Stevens.....	333,426	Dec. 29	3123	641	31	1513
Pulp. Machine for reducing wood and other fibrous material to a.....	G. H. Pond.....	321,451	July 7	58	816	33	1581
Pulp. Machine for the reduction of wood.....	E. P. Ely.....	310,659	Jan. 13	638	17	32	13
Pulp, &c. Press for drying barrel-heads of.....	S. M. Hotchkiss and B. A. Mason.....	318,741	May 26	2425	648	31	994
Pulp-straining machine. Self-cleaning.....	R. Kron.....	315,420	Apr. 7	603	649	31	994
Pulp-straining machine with vertical screen-plates.....	R. Kron.....	331,304	Dec. 1	66	155	31	108
Pulverizer.....	T. C. D'Spain.....	312,338	Feb. 17	1208	156	33	1011
Pulverizer.....	O. S. Richmond.....	313,953	Mar. 17	1265	332	30	589
Pulverizer.....	A. Skinner.....	317,227	May 5	408	330	30	1029
Pulverizer and cultivator.....	J. R. S. and A. Chambers and W. J. Davis.....	322,420	July 21	1360	102	31	596
Pulverizer and leveler. Soil.....	A. C. Funk.....	316,889	Apr. 28	2644	355	32	264
Pulverizer and spreader.....	G. E. Burt.....	326,015	Sept. 8	1054	689	31	499
Pulverizer. Clay.....	J. A. Boyd.....	329,708	Nov. 3	380	268	32	1217
Pulverizer. Clay.....	G. C. Pratt.....	315,064	Apr. 7	110	97	33	577
Pulverizer, harrow, and cultivator. Combined.....	J. R. Gibbons and M. L. Flowers.....	330,689	Nov. 17	1680	26	31	27
Pulverizer. Land.....	H. C. Bates and G. Bryant.....	312,697	Feb. 24	1688	453	33	843
Pulverizer. Sod-ground.....	A. L. Gordon.....	316,141	Apr. 21	1617	454	30	686
Pulverizer. Soil.....	J. B. Okey.....	331,318	Dec. 1	84	465	31	306
Pulverizing apparatus.....	W. A. Koneman and H. H. Scoville.....	315,146	Apr. 7	217	423	30	306
Pulverizing-machine.....	R. D. Gates.....	320,126	June 16	1587	84	33	1014
Pulverizing-machine.....	R. D. Gates and C. Kaestner.....	319,479	June 9	692	53.54	31	40
Pulverizing-machine. Clay.....	J. B. Waring.....	328,625	Oct. 20	1481	419	31	1352
Pulverizing-machine. Clay.....	T. W. and J. Birch.....	313,572	Mar. 10	728	186	31	1185
Pulverizing-machine, &c. Dust-guard for.....	R. D. Gates.....	331,393	Dec. 1	193	187	33	1185
Pump.....	A. Annibale.....	316,431	Apr. 22	2017	386	33	224
Pump.....	C. H. Bennett.....	319,547	June 9	783	191	30	923
Pump.....	G. H. Bennett.....	330,689	Nov. 17	1651	50	33	1032
Pump.....	R. M. Brooks.....	316,004	Apr. 21	1425	529	31	383
Pump.....	J. P. Cobb.....	326,201	Sept. 15	1312	208	33	1201
Pump.....	J. D. Davies.....	315,485	Apr. 14	706	444	33	837
Pump.....	W. H. Dillon.....	315,257	Apr. 7	385	370	31	271
Pump.....	L. G. Engel.....	322,269	July 14	1155	340	32	1271
Pump.....	J. Faller.....	328,472	Oct. 20	1271	186	31	132
Pump.....	R. P. Garsed.....	330,221	Nov. 10	1070	386	33	224
Pump.....	H. F. Hodges.....	311,581	Feb. 3	164	529	31	383
Pump.....	W. H. and C. A. Holcombe.....	321,499	July 7	119	208	33	1201
Pump.....	G. H. Holt.....	312,852	Feb. 24	1897	444	33	837
Pump.....	A. H. Hutchinson.....	312,997	Feb. 24	2024	370	32	792
Pump.....	W. Johnston.....	329,910	Nov. 10	660	343	31	1293
Pump.....	L. A. Kelly.....	326,434	Sept. 15	1621	507	30	792
Pump.....	T. Kennedy.....	331,976	Dec. 8	1028	370	32	792
Pump.....	G. Lenhardt.....	316,631	Apr. 28	2263	343	31	809
Pump.....	J. C. Mack.....	313,353	Mar. 3	446	136	32	1117
Pump.....	W. C. McClay.....	316,049	Apr. 21	1422	383	31	809
Pump.....	H. Mortensen.....	314,705	Mar. 31	2245	163	31	113
Pump.....	E. A. Miller and W. H. Brown.....	324,401	Aug. 18	1360	370	32	792
Pump.....	P. A. Myers.....	319,924	June 9	1298	343	31	1293
Pump.....	J. M. Normand.....	325,623	Sept. 1	539	370	32	792
Pump.....	A. Palmer.....	318,018	May 19	1467	383	31	809
Pump.....	J. W. Powers.....	315,442	Apr. 7	633	163	31	113

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Pump	A. Reis	317,015	May 5	114	29	31	543
Pump	J. H. Rook	331,734	Dec. 1	738	185	33	1128
Pump	A. L. Russell	328,146	Oct. 13	830	216	33	1177
Pump	D. P. Stewart	314,078	Mar. 17	1410	368	30	1057
Pump	W. E. Williams	318,066	May 19	1530	410	31	890
Pump	J. Wook	320,737	June 23	2437	646	31	1517
Pump. Air	M. Corvill and F. M. Wheeler	324,089	Aug. 11	952	253	32	702
Pump. Air	G. F. Dailey	321,008	June 30	2796	744	31	1740
Pump. Air	R. P. Garsed	325,936	Sept. 8	935	237	32	1195
Pump. Air	F. D. Maltby	313,603	Mar. 10	770	503	30	929
Pump. Air	A. L. Robbins	313,243	Mar. 3	310	77	20	873
Pump. Air	F. J. Weiss	314,766	Mar. 31	2552	673	30	1908
Pump. Air or gas compressing	J. B. Clot	325,395	Sept. 1	945	61	32	1095
Pump. Ale and beer	E. Schlimbach	317,214	May 5	392	98	31	989
Pump and air-compressor. Combined water-	C. C. Worthington	330,540	Nov. 17	1406	400	33	805
Pump and engine	A. Johnston	312,726	Feb. 21	1729	475	30	894
Pump and water-elevator. Automatic	A. H. Bryan	326,260	Sept. 15	1404	366	32	1388
Pump. Anti-friction dredging	C. H. Booth	313,640	Mar. 10	877	217	30	944
Pump attachment. Dredge	C. H. Booth	313,080	May 5	200	50	31	579
Pump barrel. Chain	C. H. Miller	320,672	June 23	2362	634	31	1562
Pump. Beer forcing	F. E. Snyder	322,073	July 14	912	336	32	174
Pump. Bilge	M. Waters	324,448	Aug. 18	1411	385	32	800
Pump. Breast	A. A. Durand	331,952	Dec. 8	1040	271	33	1195
Pump. Breast	A. A. Turner	310,584	Apr. 28	2205	586	31	419
Pump bucket. Chain	R. M. Brooks	316,005	Apr. 21	1426	371	31	571
Pump bucket. Chain	W. P. Harrison	318,615	May 26	2180	603	31	963
Pump bucket. Chain	M. D. Temple	316,199	Apr. 21	1068	442	31	399
Pump bucket. Chain	W. B. Wilcox	322,874	July 21	1975	523	32	375
Pump bucket. Lift	F. H. Smith	330,933	Nov. 24	2006	542	33	910
Pump. Centrifugal	J. Richards	314,878	Mar. 31	2502	663	30	1293
Pump. Centrifugal	G. Yellott	342,788	Feb. 24	1811	498	30	748
Pump. Chain	H. and C. F. Dickinson	324,243	Aug. 11	1141	310	32	742
Pump. Chain	W. Kegler	331,889	Dec. 8	957	248	33	1177
Pump chains. Device for replacing	J. B. Brown	314,913	Mar. 31	2553	675	30	1011
Pump condenser. Steam	H. T. Blackwell	311,638	Feb. 3	239	67	30	394
Pump. Deep-well	L. and J. P. Griscom	323,805	Aug. 4	544	155	32	625
Pump. Double-acting	D. R. Clond	323,398	Aug. 4	20	56	32	596
Pump. Double-acting	A. J. Hopkins	330,329	Nov. 10	1205	392	33	744
Pump. Double-acting force	D. J. Nysewander	326,053	Sept. 8	1104	282	32	1236
Pump. Double-acting force	G. E. Sprinkle	317,422	May 5	609	170	31	444
Pump. Double-acting submerged	C. H. Foster	314,117	Mar. 17	1472	324	30	106
Pump. Double-acting submerged force	M. B. Brooks	317,714	May 12	1070	273	31	722
Pump driver	J. W. Runyan	315,445	Apr. 7	635	164	31	113
Pump. Duplex-crank piston	J. Dow	318,968	June 2	51	13	31	1067
Pump. Ejector	H. Kleiman	310,896	Jan. 20	943	277	30	169
Pump for oil cans, &c	J. B. Nelson	329,067	Oct. 27	2093	543	33	499
Pump. Force	T. Barber	321,335	June 30	3307	855	31	1666
Pump. Force	G. W. Coonee	310,561	Jan. 13	716	141	30	105
Pump. Force	G. L. Holmberg	313,669	Mar. 10	856	223	30	947
Pump. Force	A. F. Nagle	313,879	Mar. 17	1153	300	30	1008
Pump. Force	J. P. Turner	326,891	Sept. 22	2271	594	32	1433
Pump. Gas-compressing	D. Boyle	319,446	June 9	645	174	31	1177
Pump guard	J. B. Brown	314,912	Mar. 31	2553	674	30	1301
Pump handle	A. D. Cook	318,235	May 19	1749	467	31	869
Pump. Hydraulic	J. H. Hubbell	331,711	Dec. 1	699	179	33	1129
Pump. Hydraulic air	W. S. Taylor	326,346	Sept. 15	1519	395	32	1310
Pump. India rubber	P. J. Ruffel	320,888	June 23	2630	696	31	1533
Pump. Liquor	J. H. Thorn	329,171	Dec. 8	1373	355	33	1351
Pump. Magma	G. Dinkel	311,878	Feb. 10	548	150	30	459
Pump. Measuring	S. M. Cole	324,301	Aug. 11	1222	319	32	758
Pump. Measuring	H. E. Marchand	327,890	Oct. 6	492	129	33	88
Pump. Measuring	J. H. Thorn	321,061	June 30	2875	764	31	1603
Pump. Mercurial air	A. L. Reinmann and C. G. Ott	327,313	Sept. 29	2897	777	32	1559
Pump. Non-freezing force	W. M. Stevenson	329,233	Oct. 27	2229	603	33	445
Pump. Non-freezing force	W. M. Stevenson	329,234	Oct. 27	2331	604	33	446
Pump. Oil-well	J. M. Sanner	320,176	June 16	1646	436	31	1363
Pump piston	W. M. Stevenson	329,235	Oct. 27	2332	604	33	446
Pump piston. Air	J. A. Woodbury, J. Merrill, G. Pat- ten, and E. F. Woodbury	331,360	Dec. 1	143	36	33	1073
Pump, &c. Portable	R. Phillips	326,146	Sept. 15	1232	315	32	1256
Pump regulator. Steam	D. R. Stiles	322,077	July 14	916	257	32	175
Pump. Rotary	J. F. Breux	322,686	Dec. 15	1976	512	33	1359
Pump. Rotary	G. Greindl	313,415	Mar. 3	523	137	30	873
Pump. Rotary	R. F. Hassinger	319,093	June 2	198	52	33	1048
Pump. Rotary	D. L. Kelly	314,851	Mar. 31	2463	671	31	1286
Pump. Rotary	F. M. Roots	325,276	Sept. 1	63	19	32	1067
Pump. Rotary	B. F. Taber	323,356	Dec. 29	3033	792	33	1766
Pump. Rotary force	J. Serdinko	315,667	Apr. 14	957	251	31	179
Pump. Rotary steam and air	L. Fox	324,700	Aug. 18	1317	358	32	773
Pump. Sand	W. H. Birge	311,945	Feb. 10	671	178	30	477
Pump. Sand	W. S. Smith and C. W. Clift	323,478	Aug. 4	95	38	32	540
Pump. Sand and water	V. G. Barney	312,069	Feb. 10	871	224	30	1223
Pump. Single-acting	W. H. De Valin	326,409	Sept. 15	1586	413	32	1223
Pump. Siphon	F. Wittram	330,078	Nov. 10	895	231	33	813
Pump. Steam	W. E. Eby	330,571	Nov. 17	1532	410	33	605
Pump. Steam	F. M. Leavitt	324,346	July 28	2653	706	32	1407
Pump. Steam vacuum	G. H. Nye	322,738	Dec. 22	2178	575	33	107
Pump table	H. E. Marchand	327,805	Oct. 6	394	102	33	85
Pump tubing. Well	J. Marsden	317,557	May 12	848	218	31	745
Pump. Vacuum	R. F. Barnes	312,951	Feb. 24	2018	551	30	745
Pump. Vacuum	J. T. Davis	328,469	Oct. 20	1250	327	33	945

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Pump. Vacuum.....	A. Kux.....	312,644	Feb. 24	1620	446	30	674
Pump. Vacuum.....	F. H. Smith.....	321,764	July 7	484	128	32	90
Pump. Vacuum.....	B. Theous.....	329,241	Oct. 27	2342	606	33	448
Pump-valve.....	P. T. Coffield.....	322,795	July 24	1357	494	32	355
Pump-vent.....	K. A. Smith and J. E. Woodard.....	320,010	June 16	1428	375	31	1324
Pump. Well.....	W. P. Powers.....	313,521	Mar. 10	666	174	30	909
Pumps and engines. Piston for compressor and other	W. H. Worthen.....	311,629	Feb. 3	226	63	30	391
Pumps. Attachment for pneumatic bear-	F. Mohr.....	316,163	Apr. 21	1645	430	31	312
Pumps. Oil-drip and separating-tank for ammonia-	E. Jungensfeld and H. Rassbach.....	332,344	Dec. 15	1609	422	33	1300
Pumps. Pawl and ratchet for chain-	H. and J. Kelly.....	324,320	Aug. 11	1262	343	32	766
Pumps. Valve-case for mercurial air-	A. L. Reimann.....	331,546	Dec. 1	410	110	33	1072
Pumps. Valve-gear for direct-acting steam-	J. C. Deau.....	320,764	June 23	2471	654	31	1524
Pumps. Valve-gear for duplex	W. J. Lewis.....	326,996	Sept. 29	2411	630	32	1486
Pumps. Valve mechanism for duplex steam-	J. R. Maxwell.....	314,641	May 26	2290	611	31	968
Pumps. Valve-motion for steam-	J. Mayher.....	327,002	Sept. 29	2418	632	32	1477
Pumping apparatus. Converting motion in oil-	G. Allen.....	326,008	Sept. 8	1046	266	32	1215
Pumping apparatus. Device for converting motion in oil-	G. Allen.....	328,099	Oct. 13	773	202	33	146
Pumping apparatus. Device for transmitting motion in oil-	G. Allen.....	332,318	Dec. 15	1573	413	33	1294
Pumping-engine. Compound steam.....	C. A. Wilson.....	313,793	Mar. 10	1030	264	30	917
Pumping-engine. Direct-acting.....	W. H. Worthen.....	314,161	Mar. 17	1523	399	30	1077
Pumping-engine. Duplex.....	H. F. Gaskill.....	322,922	July 28	2049	541	32	396
Pumping-engine. Duplex.....	H. F. Gaskill.....	324,372	Aug. 18	1319	358	32	784
Pumping-engine. Duplex.....	T. J. Rider.....	324,488	Aug. 18	1472	403	32	811
Pumping-engine. Portable steam.....	J. Gwynne.....	326,642	Sept. 22	1891	496	32	1385
Pumping-engine. Steam.....	J. C. Born.....	322,784	July 21	1846	490	32	352
Pumping-engine. Steam.....	E. Reynolds.....	318,504	May 26	2104	567	31	937
Pumping-engines. Construction of coverings or housings for the steam-cylinders of	C. P. Deane.....	313,479	Mar. 10	616	160	30	900
Pumping-engines. Equalizer for duplex steam	J. D. Davies.....	327,535	Oct. 6	44	10	33	9
Pumping-machine.....	C. Hoffman and H. R. Lyman.....	324,026	Aug. 11	835	231	32	686
Pumping-machine for stone-saws	F. R. Patch.....	326,323	Sept. 15	1466	387	32	1304
Pumping-mill. Hand water-	J. H. Hunter.....	321,972	July 14	772	201	32	148
Pumping-oil-wells. Apparatus for	H. Forbes.....	330,973	Nov. 24	2056	556	33	920
Pumping-oil-wells. Apparatus for	G. Allen.....	313,907	Mar. 17	1190	310	30	1015
Pumping or elevating water. Device for	J. J. and J. A. Lamb.....	323,816	Aug. 4	555	158	32	627
Punch.....	S. Coons.....	313,991	Mar. 17	1305	341	30	1036
Punch.....	J. H. Laney.....	332,666	Dec. 15	2065	542	33	1379
Punch.....	J. S. Shannon.....	310,917	Jan. 20	974	264	30	194
Punch and bending-machine. Combined gang-	W. H. Johnson.....	326,746	Sept. 22	2064	536	32	1415
Punch. Belt.....	B. M. Hair.....	311,121	Jan. 20	1265	346	30	247
Punch. Blacksmith's.....	M. C. Brandenburg.....	314,647	Mar. 31	2177	577	30	1232
Punch. Conductor's.....	B. C. Smith.....	313,027	Feb. 24	2134	580	30	765
Punch-cutting machine.....	L. B. Benton.....	327,855	Oct. 6	450	117	33	79
Punch-cutting machine.....	L. B. Benton.....	332,990	Dec. 22	2318	665	33	1469
Punch. Draw-plate.....	M. Roegen.....	314,543	Mar. 24	2037	543	30	1180
Punch. Duplex ticket-	M. M. Welch.....	322,682	July 21	1625	447	32	323
Punch. Metal.....	G. McDonald.....	316,160	Apr. 21	1643	430	31	311
Punch or press. Hand.....	A. B. Barnard.....	312,096	Feb. 24	1687	464	30	686
Punch. Ticket.....	W. H. Bonnell.....	326,389	Sept. 15	1565	406	32	1319
Punch. Ticket.....	E. B. Hayes.....	314,241	Mar. 24	1624	429	30	1104
Punch. Ticket.....	J. F. Hanacom.....	326,429	Sept. 15	1614	420	32	1327
Punch. Ticket.....	W. C. Harden.....	321,718	July 7	411	110	32	77
Punch. Ticket.....	W. Hill.....	320,785	June 23	2496	661	31	1528
Punching and flanging machine. Combined.....	S. T. Thompson and W. B. Richards.....	318,221	May 19	1729	492	31	859
Punching and shearing machine.....	N. Kaempf.....	319,978	June 16	1387	365	31	1317
Punching and shearing machines. Double throat for.....	C. E. McBeth.....	310,602	Jan. 13	569	157	30	115
Punching and shearing metal. Machine for.....	W. H. Tydeman.....	316,420	Apr. 21	1989	523	31	372
Punching device.....	J. M. Long.....	316,470	Apr. 28	2065	541	31	392
Punching-machine.....	C. M. Carahan.....	326,950	Sept. 29	2356	616	32	1475
Punching-machine.....	J. L. Fletcher.....	324,930	Aug. 25	2085	570	32	934
Punching-machine.....	T. M. Platts.....	314,474	Mar. 24	1946	518	30	1164
Punching machine. Metal.....	G. Emig.....	317,777	Oct. 6	354	91.92	33	63
Punching metallic strap-bands. Machine for.....	A. D. Laws.....	330,337	Nov. 10	1215	325	33	746
Punching-press.....	J. M. Long.....	329,918	Nov. 10	668	171	33	637
Pupilometer.....	L. Burt.....	331,226	Nov. 24	2402	650	33	982
Purse.....	M. Stoveken.....	330,808	Nov. 17	1836	495	33	871
Purse, bag, &c.....	G. B. Adams.....	325,807	Sept. 8	800	201	32	1169
Push-button.....	T. C. Frenyear.....	317,450	May 5	714	179	31	652
Putting-out machine.....	W. M. Hoffman.....	310,279	Jan. 6	157	44	30	31
Putting-out machine.....	W. M. Hoffman.....	323,334	July 28	2639	702	32	503
Patty-knife.....	C. Ives.....	310,682	Jan. 13	671	184	30	133
Puzzle.....	C. M. Dewey.....	326,725	Sept. 29	2040	501	32	1411
Puzzle.....	C. M. Dewey.....	328,766	Oct. 20	1653	431	33	317
Puzzle.....	P. Protheroe.....	332,211	Dec. 8	1426	368	33	1260
Pyroxyline and its solvents in the manufacture of solid compounds. Combining	J. W. Hyatt.....	331,241	Nov. 24	2423	657	33	986
Pyroxyline and its solvents in the manufacture of solid compounds. Combining	J. W. Hyatt.....	331,242	Nov. 24	2424	657	33	987
Pyroxyline compounds. Manufacture of.....	J. G. Jarvis.....	329,313	Oct. 27	2445	33	467

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Pyroxyline with its solvents in the manufacture of solid compounds. Compounding	J. W. Hyatt	331,713	Dec. 1	703	174	33	1122
Quartz-mill	C. J. Hodge	317,359	May 5	582	150	31	630
Quartz-mill	A. E. Redstone	311,032	Jan. 20	1134	310	30	224
Quartz-mill	J. G. Titus	320,415	June 16	2019	530	31	1430
Quicksilver from lead. Freeing	A. Patchen	314,711	Mar. 31	2254	30	1947	
Quills, feathers, &c. Machine for splitting	J. H. Holden	329,167	Oct. 27	2233	578	33	427
Quilting frame	J. H. Helms	330,463	Nov. 17	1426	321	33	793
Quilting-frame	J. H. McGee	326,133	Sept. 15	1215	310	32	1253
Quilting-machine	J. B. Hagenbüchle	317,995	May 19	1434	384	31	804
Quilting-machine	J. B. Hagenbüchle	317,996	May 19	1436	385	31	804
Quilting-machine	J. B. Hagenbüchle	325,799	Sept. 8	783	197	32	1106
Quilting-machine	W. Koch	323,584	Aug. 4	261	76, 77	32	570
Quilts or comforts. Filling for bed	M. H. Marcus	322,735	July 21	1784	470	32	340
Quoin and side-stick	M. J. Hughes	324,699	Aug. 18	1771	490	32	867
Quotation-indicating system. Audible	F. B. Herzog	311,757	Feb. 3	387	106	30	422
Rack:							
See Bag-rack.	Mattress-rack.						
Book-rack.	Music-rack.						
Book and paperrack.	Music and book rack.						
Broom-rack.	Musket-rack.						
Broom and tool rack.	Piano music-rack.						
Chalk-rack.	Pie and cake rack.						
Cloth-rack.	Pool-rack.						
Clothes-rack.	Printer's drying-rack.						
Clothes and hat rack	Scale-rack.						
Display-rack.	Sheep-rack.						
Feed-rack.	Stock-rack.						
Feeding-rack.	Tobacco-transporting rack.						
File-rack.	Towel-rack.						
Harness-rack.	Umbrella and overshoe rack.						
Harness show-rack.	Umbrella display-rack.						
Hay-rack.	Wagon-rack.						
Hay and stock rack.	Wagon grain-rack.						
Hay and straw rack.	Wall-paper rack.						
Hoe-rack.	Whip-rack.						
Map-rack.							
Rack-bars. Machine for cutting teeth of	A. S. Granger	313,201	Mar. 3	238	60	30	821
Rack for exhibiting small wares	J. W. Shideler	317,866	May 12	1257	334	31	761
Rack or fire-hose holder	R. Vose	320,727	June 23	2427	643	31	1515
Radiator	C. E. Ashcroft	326,473	Sept. 15	1664	434	32	1337
Radiator	F. E. Corey	323,277	July 28	2544	676	32	487
Radiator	J. Gormly	319,230	June 2	357	93, 96	31	1115
Radiator	J. Gormly	319,231	June 2	358	96	31	1115
Radiator	W. Hopkins	314,128	Mar. 17	1488	388	30	1070
Radiator	W. Kirkwood	313,082	Mar. 3	57	16	30	788
Radiator and heater. Steam	T. M. Morton	315,818	Apr. 14	1168	305	31	219
Radiator and heating-oven. Combined	L. C. Rodier	323,209	July 28	2458	853	32	471
Radiator. Hot-water	W. H. Brown	310,981	Jan. 20	1069	291	30	211
Radiator. Hot-water or steam.	S. D. Tompkins and J. N. Matlock	323,235	July 28	2489	661	32	476
Radiator. Steam	J. B. Arci and J. Chapman	310,633	Jan. 13	605	167	30	121
Radiator. Steam	J. B. Arci and J. Chapman	310,634	Jan. 13	606	167	30	121
Radiator. Steam	J. B. Arci and J. Chapman	320,203	June 16	1679	447	31	1369
Radiator. Steam	W. G. Cannon	310,375	Jan. 6	287	79	30	55
Radiator. Steam	T. P. Hardy	330,696	Nov. 17	1691	456	33	845
Radiator. Steam	J. H. Lonnabury	321,212	June 30	3086	819	31	1642
Radiator. Steam	T. L. McKeen	316,284	Apr. 21	1800	473	31	330
Radiator. Steam	T. L. McKeen	325,554	Sept. 1	456	114	32	1103
Radiator. Steam	H. Mooers	319,601	June 9	865	229	31	1216
Radiator. Steam	W. H. Page	310,714	Jan. 13	711	194	30	141
Radiator. Steam	W. H. Page	310,715	Jan. 13	713	194	30	141
Radiator. Steam	J. B. Pierce	316,056	Apr. 21	1491	390	31	253
Radiator. Steam	J. B. Pierce and J. Bond	316,055	Apr. 21	1490	389	31	253
Radiator. Steam	L. H. Prentice	313,883	Mar. 17	1158	312	30	1009
Radiator. Steam-heating	W. W. Carman	316,522	Apr. 28	2129	560	31	405
Radiator-valve	W. B. Patton	320,813	June 23	2529	670	31	1575
Radiator-valve	J. A. Scollav	313,892	Mar. 17	1168	304	30	1011
Radiator-valve. Steam	T. S. Howitt	311,657	Feb. 3	262	72	30	397
Radiators. Air-valve for steam	J. P. Marsh	317,818	May 12	1194	317	31	750
Radiators. Automatic air-valve for steam	P. Gormly	315,933	Apr. 14	1329	346	31	247
Rafter-joint	N. S. Davis	322,060	Dec. 8	1206	315	33	1221
Rafting-pin	J. Treat	328,260	Oct. 13	972	253	33	184
Rag-cleaning machine.	J. B. Hart and E. H. Walker	311,187	Jan. 27	1365	374	30	272
Rags and saving small rags of the same. Device for cleaning cut	J. B. Hart and E. H. Walker	311,186	Jan. 27	1364	374	30	272
Rail-brace	C. Atkins	329,991	Nov. 10	770	197	33	656
Rail. Built-up girder.	A. J. Moxham	317,665	May 12	988	256	31	711
Rail chair	T. L. Beaman	321,673	July 7	352	93	32	66
Rail-chair	S. M. Beery	318,685	May 26	2151	623	31	920
Rail-chair	G. W. Jacques	320,791	June 23	2502	661	31	1389
Rail clamp. Guide.	W. P. Welly	323,805	Aug. 4	661	198	32	643
Rail-coupling	J. B. Witte	317,065	May 5	175	44	31	555
Rail-cutting device	H. C. Kriete	311,589	Feb. 3	177	50	30	321
Rail-fastening	W. F. Nevegold	319,742	June 9	1041	275	31	1249
Rail-fastening device.	B. Gallagher	311,162	Jan. 20	1321	363	30	257
Rail friction-clamp	W. Emmett	328,927	Oct. 27	1875	489	33	964
Rail-joint	A. W. Agin	317,272	May 5	465	117	31	604
Rail-joint	C. Fisher	313,067	Mar. 3	41	11	30	725
Rail-joint	J. D. Green	321,715	July 7	408	109	32	76
Rail-joint	R. V. Jones	322,828	July 21	1908	507	32	363
Rail-joint	J. Kellow	318,189	May 19	1684	451	31	850

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Rail-joint	J. Stewart	321,655	July 7	326	87	32	62
Rail-joint	J. S. Warren	322,027	July 14	850	221	32	163
Rail-support. Elastic	F. Schauman	322,616	Oct. 20	1463	381	33	281
Rails in track. Securing girder	A. J. Moxham	313,512	Mar. 10	655	170	30	907
Rails. Machine for straightening	D. Walters	318,041	May 19	1524	408 409	31	819
Rails. Making	W. R. Jones	326,908	Sept. 22	2204	600	32	1456
Rails. Making steel girder street	A. J. Moxham	310,457	Jan. 6	375	104	30	73
Rails. Rerolling old	G. Hargreaves	328,937	Oct. 27	1895	495	33	367
Rails. Roll for reducing old	J. H. Brown	333,385	Dec. 29	3065	799	33	1572
Rails. Roll for rolling girder	A. J. Moxham	333,475	Dec. 29	3189	883	33	1592
Rails. Roll for street girder	A. J. Moxham	321,627	July 7	294	78	32	56
Rails, switches, &c. Blocking and guarding	C. F. Newton and W. S. Wing	321,132	June 30	2960	724	31	1618
Rails to homogeneous bars. Roll for reducing old	H. W. Fowler	315,269	Apr. 7	399	160	31	73
Rails to metal sleepers. Fastening	J. Conley	332,384	Dec. 15	1670	437	33	1310
Railway	G. E. Baldwin	329,429	Nov. 3	5	1	33	506
Railway	J. T. Campbell	310,878	Jan. 20	918	250	30	185
Railway	E. B. Meatyard	310,702	Jan. 13	697	191	30	138
Railway	J. V. Meigs	313,630	Mar. 10	1074	277 278 279 280	30	985
Railway	J. H. Pendleton	312,009	Feb. 10	745	204	30	494
Railway	C. Tiers and J. H. Pendleton	311,045	Jan. 20	1156	315	30	928
Railway-alarm	E. L. Edmonds	322,430	July 31	1373	319	32	267
Railway-alarm mechanism	W. M. Pease	313,614	Mar. 10	787	207	30	832
Railway and bridge. Elevated	F. Sohmmann	314,728	Mar. 31	2979	605	30	1251
Railway and car-hanger. Suspension	J. A. Enos	321,367	Dec. 1	122	46, 47	33	1030
Railway and car, &c. Parabolic	M. Geber	322,594	July 21	1600	423	32	306
Railway and car-truck for the same. Elevated	D. Moulton	312,004	Feb. 10	738	302	30	492
Railway and tramway. Cable	F. De Vooght	310,991	Jan. 20	1080	224 225 226	30	213
Railway and tramway chair, &c.	J. Poyser	321,247	June 30	3101	224 225 226	31	1645
Railway and tramway chair or rail-fastener	W. Corteen	331,868	Dec. 8	924	228	33	1171
Railway and tramway. Portable	J. Kerr	316,629	Apr. 28	2262	525	31	429
Railway block-signal	E. H. Slaybaugh	329,092	Oct. 27	2131	571	33	408
Railway block signaling apparatus	F. N. Kelsey	324,119	Aug. 11	962	265	32	709
Railway bumping-post	E. W. Ellis	322,212	July 31	1822	499	32	359
Railway. Cable	A. Bonzano	326,536	Sept. 15	1746	456	32	1354
Railway. Cable	W. M. Brisbane	317,713	May 12	1048	213	31	722
Railway. Cable	G. B. Bryant	317,085	May 5	205	51, 52	31	560
Railway. Cable	G. B. Bryant and E. D. Dougherty	318,950	June 2	17	5	31	1052
Railway. Cable	A. L. Eltonhead	329,826	Nov. 3	546	139	33	606
Railway. Cable	R. Gornall	325,205	Aug. 25	2447	673	32	1000
Railway. Cable	E. D. Haven	327,063	Sept. 29	2522	657 658	32	1505
Railway. Cable	W. Heckert	312,620	May 26	2265	605	31	964
Railway. Cable	J. P. Hunt	312,721	Feb. 24	1723	473	30	693
Railway. Cable	W. M. Levering	315,800	Apr. 14	1142	300	31	214
Railway. Cable	W. M. Levering	319,495	June 9	713	192	31	1189
Railway. Cable	W. M. Levering	319,496	June 9	716	193	31	1189
Railway. Cable	W. M. Levering	326,754	Sept. 22	2073	538 539	32	1417
Railway. Cable	J. B. Low and A. K. Grim	313,602	Mar. 10	769	202	30	929
Railway. Cable	D. J. Miller	332,033	Dec. 22	2430	644	33	1455
Railway. Cable	D. J. Miller	332,034	Dec. 22	2431	644	33	1455
Railway. Cable	O. D. Orvis and N. B. Adams	323,593	Aug. 4	215	80	32	572
Railway. Cable	J. H. Pendleton	317,008	May 5	106	27	31	541
Railway. Cable	H. Root	315,992	Apr. 14	1408	365	31	261
Railway. Cable	H. Root	319,929	June 9	1307	344 345	31	1295
Railway. Cable	H. Root. (Reissue)	10,621	July 7	723	189 190	32	131
Railway. Cable	E. Samuel	315,964	Apr. 14	1376	356	31	254
Railway. Cable	R. Solano	331,834	Dec. 8	875	225 226	33	1162
Railway. Cable	R. Solano	331,838	Dec. 8	884	228	33	1164
Railway. Cable	G. Warburton	318,332	May 19	1862	506	31	686
Railway. Cable	W. Wharton, Jr.	315,953	Apr. 14	1398	362	31	259
Railway. Cable	W. Wharton, Jr.	315,986	Apr. 14	1400	363	31	260
Railway. Cable	W. Wharton, Jr.	315,987	Apr. 14	1401	363	31	260
Railway. Cable	W. Wharton, Jr., and E. Samuel	315,984	Apr. 14	1399	363	31	259
Railway. Cable	W. Wharton, Jr., and E. Samuel	315,985	Apr. 14	1400	363	31	259
Railway-carriage	J. E. S. Thornhill, T. Forknall, and E. Thornhill	320,601	June 23	2268	600	31	1485
Railway-car. Electric signal for	J. R. De Mier	331,042	Nov. 24	2132	579	33	935
Railway-chair	H. J. Gray	321,595	July 7	276	68	32	49
Railway-chair	C. M. Seltzer and O. T. Moock	313,778	Mar. 10	1004	29	30	973
Railway-chair	F. E. Tapling	311,347	Jan. 27	1655	452	30	325
Railway-chair. Street	B. F. Cartis	312,259	Feb. 17	1094	302	30	567
Railway chair, tie, and break-joint	P. Davey	322,261	July 14	1147	270	32	218
Railway clutch. Cable	N. A. Fisher	310,307	Jan. 6	313	87	30	61
Railway construction. Cable	T. L. Johnson	317,649	May 12	969	250	31	707
Railway construction train or carriage	B. B. Hill	325,246	Sept. 1	18	6, 7	32	1018
Railway-controlling system. Electric	C. A. Mayrhofer	324,476	Aug. 18	1455	398 399 400	32	808
Railway cross-tie	E. D. Dougherty and G. B. Bryant	320,231	June 16	1721	457	31	1377
Railway cross-tie	H. Thielsen	317,244	May 5	426	107	31	601
Railway cross-tie. Metal	A. J. Moxham	319,010	June 2	98	23	31	1066
Railway cross-tie. Metallic	A. Gottlieb	310,269	Jan. 6	144	40, 41	30	29
Railway-crossing	J. Daly	322,601	July 21	1863	495	32	356

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Railway-crossing.	E. Fontaine.	327,670	Oct. 6	232	57	33	41
Railway-crossing.	G. Lehlbach.	333,230	Dec. 29	2968	750	33	1536
Railway-crossing.	A. C. Rumble.	327,457	Sept. 20	3015	77	32	1591
Railway-crossing.	M. Schlessman.	316,550	Apr. 28	2195	578	31	417
Railway-crossing and target.	J. W. Kugler.	315,515	Apr. 14	745	197	31	139
Railway-crossing gate.	M. B. Mills.	333,242	Dec. 29	2970	752	33	1532
Railway-crossings. Automatic alarm for.	J. T. Pritchard.	311,007	Feb. 3	198	56	30	386
Railway-crossings. Combined gate and signal for.	G. A. Reynolds.	319,632	June 9	690	236	31	1221
Railway-curve. Endless-chain.	R. Gidley.	328,210	Oct. 13	910	236	32	173
Railway. Electric.	E. M. Bentley.	322,517	July 21	1502	395	32	269
Railway. Electric.	B. Bidwell.	315,113	Apr. 7	169	41	31	31
Railway. Electric.	B. Bidwell.	318,594	May 26	2237	590	31	968
Railway. Electric.	H. T. Clay.	327,381	Sept. 29	2925	762	32	1575
Railway. Electric.	R. L. Cohen.	327,382	Sept. 29	2926	763	32	1576
Railway. Electric.	L. Daft.	312,557	Feb. 17	1512	412	30	645
Railway. Electric.	O. Gassett.	323,138	July 23	2352	624	32	452
Railway. Electric.	J. F. McLaughlin.	328,420	Oct. 13	1900	310	33	227
Railway. Electric.	J. F. McLaughlin.	330,605	Nov. 17	1572	421	33	290
Railway. Electric.	J. F. McLaughlin.	332,928	Dec. 22	2425	641	33	1453
Railway. Electric.	E. W. Siemens.	322,850	July 21	1932	516	32	371
Railway. Electric.	E. W. Siemens.	324,176	Aug. 11	1040	284	32	723
Railway. Electric.	F. J. Sprague.	317,235	May 5	415	104	31	599
Railway. Electric.	C. J. Van Depoele.	324,899	Aug. 25	2048	560	32	935
Railway. Electrical.	J. F. McLaughlin.	332,926	Dec. 22	2423	641	33	1453
Railway. Electrical.	J. F. McLaughlin.	332,927	Dec. 22	2424	641	33	1453
Railway. Electrical.	J. F. McLaughlin.	332,929	Dec. 22	2425	641	33	1454
Railway. Electrical.	W. Painter.	320,679	June 23	2371	627	31	1504
Railway. Elevated.	J. Jenkinson.	314,247	Mar. 24	1630	431	30	1105
Railway. Elevated.	H. Monk.	322,954	July 23	2096	557	32	405
Railway. Elevated.	L. O. Root.	315,555	Apr. 14	817	214	31	152
Railway. Elevated electric.	A. Jackson.	327,690	Oct. 6	254	63	33	45
Railway. Endless-rope.	W. H. H. Sissum.	312,913	Feb. 24	1972	539	30	737
Railway. Endless-rope traction.	A. S. Hollidge.	321,022	June 30	2815	749	31	1584
Railway fish-plate.	J. L. Cathcart.	320,622	Nov. 3	271	70	33	537
Railway fish-plate. Safety-bar for.	T. O'Donnell, Jr.	315,356	Apr. 14	789	208	31	147
Railway foot-guard.	L. S. Keeler.	325,746	Sept. 8	719	179	32	1154
Railway-frog.	N. W. Boyd.	312,801	Feb. 24	1828	502	30	711
Railway-frog.	W. H. Dickson.	312,443	Feb. 17	1343	370	30	615
Railway-frog.	H. Elliot.	318,240	May 19	1753	469	31	863
Railway-frog.	T. B. Jewett.	310,591	Jan. 13	557	155	30	113
Railway-frog.	G. Lehlbach.	323,585	Aug. 4	263	77	32	570
Railway-frog.	W. J. Morden.	332,733	Dec. 22	2171	573	33	1405
Railway-frog.	W. J. Morden.	332,734	Dec. 22	2173	573	33	1405
Railway-frog.	A. J. Moxham.	310,011	June 2	99	26	31	1066
Railway-frog.	I. A. Perry.	313,368	Mar. 3	465	120	30	683
Railway-frog.	C. B. Price.	323,596	Aug. 4	282	81	32	574
Railway-frog.	J. T. Richardson.	310,024	June 2	112	31	31	1069
Railway-frog.	J. T. Richardson.	328,810	Oct. 20	1708	445	33	387
Railway-frog.	J. N. Sargent.	328,815	Oct. 20	1713	446	33	328
Railway-frog.	F. W. Snow.	317,569	May 12	691	228	31	692
Railway-frog.	N. Stedman and J. N. Sargent.	328,864	Oct. 20	1775	463	33	339
Railway-frog.	A. A. Strom.	329,096	Oct. 27	2139	553	33	409
Railway-frog.	J. Townsend.	331,013	Nov. 24	2102	509	33	929
Railway-frog.	D. F. Vaughan.	329,979	Nov. 10	751	192	33	652
Railway-frog.	F. C. Weir.	319,362	June 2	521	142	31	1147
Railway-frog.	F. C. Weir.	331,594	Dec. 1	527	128	33	1090
Railway-frog.	F. C. Weir.	332,980	Dec. 22	2496	660	33	1466
Railway-frog and switch combined. Adjustable.	J. W. and F. N. Eldridge.	312,699	Feb. 24	1566	434	30	668
Railway-frog. Automatic.	D. H. Mahoney.	328,044	Oct. 13	697	184	33	133
Railway-frog crossing.	C. B. Price.	310,613	Jan. 13	580	160	30	117
Railway-frog, crossing, &c.	H. N. Wright.	325,778	Sept. 8	760	190	32	1102
Railway-frogs. Filling for.	G. C. Lucas.	315,951	Apr. 14	1356	351	31	251
Railway-frogs, &c. Foot-guard for.	F. B. Platt.	332,106	Dec. 8	1281	333	33	1235
Railway-gate.	F. L. Bair.	320,113	June 16	1568	414	31	1349
Railway-gate.	W. C. Baird.	326,828	Sept. 22	2181	509	32	1437
Railway-gate.	D. W. Copeland.	316,747	Apr. 28	2452	638	31	463
Railway-gate.	H. Gidley and T. Johnson.	324,934	Aug. 25	2069	572	32	934
Railway-gate.	A. Lowe.	326,306	Sept. 15	1467	392	32	1301
Railway-gate.	J. J. Murray, Jr.	324,780	Aug. 18	1876	516	32	688
Railway-gate.	G. F. Oehrl.	326,515	Sept. 15	1717	448	32	1347
Railway-gate.	C. S. Riggan and A. E. Gummer-son.	331,333	Dec. 1	107	25	33	1017
Railway-gate.	J. A. Smith.	325,874	Sept. 8	880	222	32	1185
Railway-gate.	G. W. Way and A. F. Hill.	320,827	June 23	2544	674	31	1537
Railway-gate.	S. J. Wetmore.	311,277	Jan. 27	1502	411	30	297
Railway-gate.	A. M. Woodruff.	321,167	June 30	3005	796	31	1628
Railway-gate and means for preventing injury to stock on railways.	W. Bell.	314,990	Apr. 7	4	2	31	3
Railway-gate. Automatic.	J. T. Withrow, Jr.	318,069	May 19	1536	411	31	631
Railway-gate. Hydraulic.	J. A. Lidback.	333,314	Dec. 29	2981	780	33	1554
Railway girder-rail and rail-joint.	A. J. Moxham.	316,994	May 5	89	23	31	539
Railway girder. Single-rail elevated.	J. Fish.	328,395	Oct. 13	1162	300	33	230
Railway. Gravity.	C. H. Alcock.	317,273	May 5	466	117	31	609
Railway. Gravity.	J. P. Yearick.	316,512	Apr. 28	2118	537	31	402
Railway. Gravity switch-back.	L. A. Thompson.	332,762	Dec. 22	2207	522	33	1412
Railway grip. Cable.	G. B. Bryant.	317,086	May 5	207	52	31	561
Railway grip. Cable.	W. A. Burke.	317,619	May 12	833	230	31	709

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Railway grip. Cable.....	W. Heckert	318,619	May 26	2264	604	31	963
Railway grip. Cable.....	J. Hellings	331,055	Nov. 24	2146	582	33	937
Railway grip. Cable.....	D. J. Miller	332,730	Dec. 22	2167	573	33	1404
Railway grip. Cable.....	J. H. Parkinson	315,325	Apr. 7	468	118	31	25
Railway grip. Cable.....	D. Stout	330,807	Nov. 17	1835	494	33	871
Railway gripper. Cable.....	G. B. Bryant	317,967	May 19	1402	376	31	797
Railway gripper. Cable.....	J. L. Pearson	315,329	Apr. 7	471	119	31	86
Railway gripping device. Cable.....	B. L. Fetherolf	318,098	May 19	1568	450	31	827
Railway gripping device. Cable.....	R. Solano	316,670	Apr. 28	2315	608	31	439
Railway gripping device. Rope.....	W. H. Milliken	331,902	Dec. 8	972	232	33	1180
Railway. Hand mechanism for operating grippers } for cable	W. H. Paine	331,238	Nov. 24	2419	655	33	986
Railway-head, drawing-machine, &c.....	W. Hinchliffe	318,900	May 26	2642	700	31	1032
Railway-head stop-motion.....	C. E. King	327,696	Oct. 6	261	65	33	46
Railway-heads, &c. Stop-motion for.....	A. Schner	332,289	Dec. 15	1534	402	33	1268
Railway. Incline.....	C. P. Kramer	315,640	Apr. 14	925	242	81	172
Railway-joint. Boltless.....	W. S. Thayer	319,641	June 9	917	242	31	1325
Railway mechanism. Cable.....	T. L. Johnson	317,139	May 5	270	71	31	574
Railway. Mine.....	J. C. Fowle, J. P. Christopher, and W. P. Smith.....	314,010	Mar. 17	1320	347	30	1041
Railway-motor. Electric.....	F. J. Sprague	324,292	Aug. 25	2037	557	32	924
Railway-points. Apparatus for moving and locking.....	J. Saxby	316,186	Apr. 21	1671	437	31	317
Railway-rail.....	F. W. Brooks	322,412	July 21	1350	352	32	262
Railway-rail.....	W. Hoover	317,530	May 12	822	211	31	691
Railway-rail.....	W. Lambking	317,804	May 12	1171	310	31	745
Railway-rail.....	H. H. Littell	319,278	June 2	415	111	31	1126
Railway rail and joint.....	S. McCarty	324,046	Aug. 11	729	204	32	668
Railway-rail brace.....	L. Larchar	318,631	May 26	2292	609	31	967
Railway-rail brace.....	M. R. Perkins	327,013	Sept. 29	2431	636	32	1489
Railway-rail chair.....	J. Townsend	331,012	Nov. 24	2102	569	33	928
Railway rail-chair for clamping the rails.....	T. L. Johnson	318,625	May 26	2271	606	31	965
Railway-rail clamp.....	J. Lockhart	327,255	Sept. 29	2790	726	32	1532
Railway-rail connection.....	H. D. Winton	315,586	Apr. 14	855	225	31	159
Railway-rail coupling.....	H. C. Burkhead	331,012	Dec. 1	551	134	33	1094
Railway-rail. Electrical.....	S. F. Van Choate	319,041	June 2	130	36	31	1071
Railway-rail fastening.....	L. E. Whipple	327,745	Oct. 6	317	81	33	55
Railway-rail fish-plate.....	R. R. Bridges, Jr., and W. H. Good	326,393	Sept. 15	1570	408	32	1320
Railway-rail joint.....	M. F. Buch	317,233	May 5	497	125	31	614
Railway-rail joint.....	J. A. Foley	313,061	Mar. 10	849	221	30	945
Railway-rail joint.....	J. L. Kimball	314,066	Mar. 31	2221	500	30	1241
Railway-rail joint.....	J. C. Larkin	328,092	Oct. 20	1564	408	33	299
Railway-rail joint.....	J. C. Lefter and A. Swivel	328,300	July 14	1193	313	32	227
Railway-rail joint.....	I. J. Miller, Jr.	312,490	Feb. 17	1416	390	30	627
Railway-rail joint.....	E. A. G. Roulstone	313,110	Mar. 3	95	24	30	794
Railway-rail joint.....	S. Stewart	317,037	May 5	137	35	31	547
Railway-rail joint.....	C. Taylor	325,458	Sept. 1	326	79	32	1077
Railway-rail joint.....	G. B. Witt	311,454	Jan. 27	1740	474	30	340
Railway-rail joint, chair, and splice.....	W. F. Gould	310,581	Jan. 13	543	149	30	110
Railway-rail joints. Fastening fish-plates in.....	T. A. Davies	320,639	June 23	2320	613	31	1493
Railway-rail joints. Fish-plates for.....	T. A. Davies	320,641	June 23	2322	613	31	1493
Railway-rail joints. Fulcrum metallic spring-washer for.....	T. A. Davies	320,640	June 23	2321	613	31	1493
Railway-rail spike.....	T. A. Davies	330,570	Nov. 17	1531	410	33	812
Railway-rail spikes. Stay-plate for.....	T. A. Davies	330,568	Nov. 17	1530	409	33	812
Railway rail. Street.....	E. Barnes	321,414	July 7	2	1	32	3
Railway rail. Street.....	T. L. Beaman	310,640	Jan. 13	614	169	30	123
Railway rail support or tie.....	J. K. Clark	323,275	July 28	2541	675	32	487
Railway-rails. Center-fastening for.....	T. A. Davies	330,569	Nov. 17	1531	409	33	812
Railway-rails. Device for connecting the ends of.....	E. S. Hovey	311,002	Jan. 20	1098	300	30	317
Railway-rails. Device for securing fish-plates to joints of.....	J. M. Burke	314,314	Mar. 24	1727	450	30	1124
Railway-rails. Lifting apparatus for.....	F. Westmeyer	316,390	Apr. 21	1844	426	31	347
Railway-rails. Machine for straightening.....	M. L. O'Brien	327,098	Sept. 29	2552	685	32	1510
Railway-rails. Securing fish-plates to.....	T. A. Davies	320,638	June 23	2310	612	31	1493
Railway rolling-stock. Chart for.....	J. S. Graham	330,577	Nov. 17	1539	412	33	814
Railway. Rope.....	W. R. Fowler	330,106	Nov. 10	926	240	33	688
Railway-semaphores. Apparatus for operating.....	H. O'Neill	324,671	Nov. 3	328	84	33	567
Railway-signal.....	J. H. Ames	328,913	Oct. 27	1657	465	33	361
Railway-signal.....	J. E. Baker	324,388	Aug. 4	8	3	32	524
Railway-signal.....	J. W. Henderson	331,879	Dec. 8	938	242	33	1174
Railway-signal.....	A. Hoffmann	314,936	Mar. 17	1242	323	30	1023
Railway-signal.....	C. R. Johnson	319,619	Jan. 6	450	124	30	88
Railway-signal.....	H. Johnson	315,792	Apr. 14	1133	297	31	213
Railway-signal.....	F. E. Kip	322,950	Oct. 27	1910	499	33	370
Railway-signal.....	A. A. Morrill	327,299	Sept. 29	2809	732	32	1556
Railway-signal.....	W. A. Murray	327,962	Oct. 6	589	154	33	106
Railway-signal.....	F. I. Myers	327,576	Oct. 6	97	21	33	18
Railway-signal.....	J. R. Park	324,411	Aug. 18	1378	375	32	795
Railway-signal.....	W. M. Pease	332,431	Dec. 15	1732	454	33	1320
Railway-signal.....	S. C. Pullman	319,023	June 2	111	30	31	1069
Railway-signal.....	A. B. Snyder	321,256	June 30	3112	828	31	1647
Railway-signal.....	I. A. Timmis and S. C. C. Currie	326,068	Sept. 8	1130	287	32	1231
Railway-signal.....	J. N. Toole	325,286	Sept. 1	77	23	32	1030
Railway-signal.....	J. S. Trites	325,069	Sept. 8	1132	298	32	1231
Railway-signal.....	L. E. Watson and D. H. Hulit	331,854	Dec. 8	904	234	33	1167
Railway-signal.....	C. F. Williams	325,465	Sept. 1	334	81	32	1079
Railway-signal.....	C. M. Wilson	330,077	Nov. 10	893	231	33	681

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Railway-signal.	M. Wuerpel	330,859	Nov. 17	1905	515	33	683
Railway-signal.	M. Wuerpel	330,860	Nov. 17	1906	515	33	684
Railway signal and alarm. Combined	J. B. Eastman	328,301	Oct. 13	1023	265	33	184
Railway-signal. Apparatus for actuating the lever of a	A. H. Stetson	313,896	Mar. 17	1171	305	30	1011
Railway-signal. Automatic	J. M. Peirce	323,958	Aug. 11	745	207 208	32	670
Railway-signal box.	C. F. Williams	321,558	July 7	909	55	32	41
Railway-signal. Electric	O. S. Hertzog	318,186	May 19	1680	450	31	849
Railway-signal. Electric	J. Hinds and L. L. Stimpson	315,785	Apr. 14	1125	295	31	211
Railway-signal. Electric	H. C. Nicholson	329,478	Nov. 3	71	19, 20	33	518
Railway-signal. Electric	A. G. Warren	323,243	July 28	2499	664	32	479
Railway-signal. Electric	W. T. Waters	314,760	Mar. 31	2314	615 616	30	1256
Railway-signal. Electric	W. T. Waters	314,761	Mar. 31	2317	616 617	30	1256
Railway-signal. Electric	W. T. Waters	314,763	Mar. 31	2323	617 618 619	30	1260
Railway-signal. Electrical	W. T. Waters	314,763	Mar. 31	2331	620 621 622	30	1261
Railway-signal. Pneumatic	E. M. Chase	311,959	Feb. 10	673	184 185	30	481
Railway-signal. Pneumatic	J. L. L. Knox	323,428	Aug. 4	56	15	32	533
Railway-signals. Single-rail circuit for electric	H. D. Winton	311,050	Jan. 20	1163	318	30	229
Railway signaling apparatus.	E. Baumbach	316,224	Apr. 21	1718	451	31	325
Railway signaling apparatus.	J. P. Dunn	315,394	Apr. 7	561	145	31	101
Railway signaling apparatus.	W. Hadden	319,637	Feb. 24	1594	436	30	689
Railway signaling apparatus.	W. Hadden	315,772	Apr. 14	1110	292	31	208
Railway signaling apparatus.	W. Hadden	317,094	May 19	1433	384	31	803
Railway signaling apparatus.	C. D. Tisdale	316,201	Apr. 21	1688	443	31	330
Railway-sleeper	P. H. Dudley	327,667	Oct. 6	928	56	33	41
Railway sleeper and chair	J. Howard and E. T. Bousfield	333,015	Dec. 22	2556	673	33	1476
Railway-sleepers. Treating	J. B. Blythe	313,912	Mar. 17	1198	312 313	30	1016
Railway-spike	R. M. Boyd	328,103	Oct. 13	778	203	33	147
Railway-spike	J. D. Hicks	330,326	Nov. 10	1303	322	33	744
Railway-spike	W. S. Huntington	328,889	Oct. 20	1814	472	33	346
Railway-spike	J. McMurtry	314,822	Mar. 31	2422	637	30	1290
Railway-spike	A. O. Morford	319,022	June 9	866	229	31	1217
Railway station or terminus. Transfer	R. R. Hazard	329,104	Oct. 27	2229	577	33	426
Railway-station signal	A. A. Sprague	317,500	May 12	693	228 229	31	693
Railway-stations. Train time-signal for	C. M. Sexton	317,225	May 5	406	102	31	596
Railway. Street cable.	J. D. Isaacs	326,120	Sept. 15	1192	304	32	1249
Railway structure. Underground.	R. R. Hazard	314,021	Mar. 17	1344	350	30	1044
Railway-switch	A. Ayres	311,801	Feb. 3	438	118	30	430
Railway-switch	A. Ayres	317,434	May 5	694	175	31	648
Railway-switch	A. E. Bach	313,798	Mar. 10	1036	266	30	978
Railway-switch	J. B. Batt	327,220	Sept. 29	2709	705	32	1539
Railway-switch	P. E. Bird	321,079	June 30	2-96	770	31	1692
Railway-switch	G. Chalmers	319,067	June 2	164	44, 45	31	1078
Railway-switch	C. Clinton	319,675	June 9	952	252	31	1232
Railway-switch	S. Curlin	316,336	Apr. 21	1861	492 493	31	350
Railway-switch	W. J. Davies and W. Ponglase	326,406	Sept. 15	1584	412	32	1322
Railway-switch	N. G. Du Bois	330,226	Nov. 17	1856	501	33	875
Railway-switch	J. A. Duggan	330,878	Nov. 24	1929	523	33	896
Railway-switch	R. W. Farrell	310,396	Jan. 6	311	86	30	60
Railway-switch	T. M. Foote	322,920	July 28	2047	541	32	395
Railway-switch	H. L. Ford	319,398	June 2	563	153	31	1155
Railway-switch	H. L. Ford	328,842	Oct. 20	1750	456	33	335
Railway-switch	J. W. Henderson	313,866	Mar. 17	1133	285	30	1004
Railway-switch	E. H. Johnston	318,188	May 19	1623	451	31	850
Railway-switch	A. J. Moxham	318,645	May 26	2299	614 615	31	970
Railway-switch	A. J. Moxham	331,525	Dec. 1	382	103	33	1067
Railway-switch	A. J. Moxham	331,526	Dec. 1	383	103	33	1068
Railway-switch	A. J. Moxham	333,474	Dec. 29	3188	822	33	1792
Railway-switch	P. Nolan	330,509	Nov. 17	1459	370	33	799
Railway-switch	A. O'Hara	328,803	Oct. 20	1698	442	33	325
Railway-switch	J. F. Penrod	328,608	Oct. 20	177	377	33	278
Railway-switch	J. T. Richardson	322,067	July 14	905	234	32	173
Railway-switch	S. Ritchie	320,397	June 16	1998	525	31	1426
Railway-switch	B. C. Rowell	333,258	Dec. 29	2904	759 760	33	1543
Railway-switch	F. W. Snow	327,115	Sept. 29	2571	670	32	1513
Railway-switch	J. R. Stephens	320,922	June 30	2764	734 735	31	1524
Railway-switch	D. H. Valentine	320,900	June 23	2646	702	31	1555
Railway-switch	M. Wallick	317,509	May 12	902	231	31	674
Railway-switch	C. D. Walters	313,264	Mar. 3	333	82	30	577
Railway-switch	F. S. Wood	323,421	Aug. 4	124	36	32	544
Railway switch and signaling apparatus.	J. T. Hambay	320,643	Nov. 3	292	74, 75	33	560
Railway-switch. Automatic	C. S. Drake	313,922	Mar. 17	1233	320 321	30	1022
Railway-switch. Automatic	S. H. Jenkins	324,773	Aug. 18	1847	514	32	826
Railway-switch. Automatic	B. F. Purviance	322,295	July 14	1223	344	32	251
Railway-switch. Automatic	A. Wulff	314,554	Mar. 24	2048	546	30	1192
Railway-switch chair	D. Sullivan	317,042	May 5	143	36	31	548
Railway-switch indicator	G. Otte	311,846	Feb. 3	494	135	30	441
Railway-switch lock	R. Lehmann	321,040	June 30	2877	755	31	1598

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Railway-switch. Safety	E. H. Tobey	394,613	Aug. 18	1646	453	32	844
Railway-switch safety device	A. R. Roberts	318,297	May 10	1824	454	31	877
Railway-switch safety device	A. R. Roberts	318,394	May 10	1963	528	31	901
Railway-switch safety-guard	M. F. Bonzano	392,783	July 21	1845	489	32	358
Railway-switch stand	T. R. Brown	318,948	June 2	14	4	31	1051
Railway-switch stands. Lock for	E. Hillery	316,545	Apr. 28	2156	567	31	409
Railway-switch stands to the switch. Rod for connecting	J. Brahn	317,617	May 12	930	239	31	690
Railway switch. Street	O. Bangs	317,982	May 5	479	121	31	611
Railway switch. Street	J. Ridgway	330,425	Nov. 17	1350	360	33	778
Railway switches and signals. Interlocking mechanism for	E. H. Tobey	394,614	Aug. 18	1646	454	32	845
Railway-switches. Grab-iron for	P. J. Swan	323,230	July 28	2485	660	32	476
Railway-switches. Machinery for operating	M. Wuerpel	330,862	Nov. 17	1908	516	33	885
Railway-switches. Tie or connecting bar for	J. T. Richardson	311,148	Jan. 20	1305	359	30	255
Railway switching device. Cable	D. J. Miller	332,933	Dec. 22	2428	643	33	1454
Railway system and car. Electric	M. H. Smith	310,962	Jan. 20	1042	283	30	205
Railway system. Cable	T. L. Johnson	317,140	May 5	281	79	31	575
Railway system. Electric	F. J. Sprague	321,149	June 30	2022	790	31	1023
Railway system. Electric	F. J. Sprague	323,459	Aug. 4	96	28, 29	32	540
Railway system. Electric	F. J. Sprague	328,821	Oct. 20	1721	448	33	330
Railway system. Electrically-actuated	F. L. Pope	320,223	June 16	1798	478	31	1389
Railway-tamper	R. P. Bryant and J. H. Gilleland	318,103	May 19	1652	442	31	844
Railway-tie	J. S. Ammon	328,632	Oct. 20	1491	328	33	266
Railway-tie	L. M. Clark	332,490	Dec. 15	1802	473	33	1333
Railway-tie	M. A. Glynn	317,763	May 12	1113	293	31	735
Railway-tie	L. Haas	315,771	Apr. 14	1109	291	31	208
Railway-tie	A. A. Harrison	313,072	Mar. 3	45	12	30	766
Railway-tie	G. C. H. Haaskarl	319,813	June 9	1150	304	31	1268
Railway-tie	E. N. Higley	312,717	Feb. 24	1717	472	30	691
Railway-tie	W. H. Knowlton	312,566	Feb. 17	1524	415	30	647
Railway-tie	W. McVey	312,881	Feb. 24	1939	530	30	730
Railway-tie	G. Murray	323,356	July 28	2669	711	32	508
Railway-tie	C. M. Van Orman	314,158	Mar. 17	1520	398	30	1076
Railway-tie	L. O. Vanderbilt and M. E. Company	313,260	Mar. 3	330	61	30	836
Railway-tie	L. E. Whipple	327,841	Oct. 6	438	114	33	77
Railway tie and chair	P. Davey	329,521	Nov. 3	539	137	33	605
Railway tie and chair. Metallic	L. B. Prindle	323,460	Dec. 22	2195	825	33	1582
Railway tie and fastener. Metallic	R. R. Shepard	325,020	Aug. 25	2207	606	32	955
Railway-tie and track-fastening	W. B. Henning	323,809	Aug. 4	548	156	32	686
Railway-tie extractor and replacer	J. Mergenthaler	317,822	May 12	1210	320	31	753
Railway-tie. Metallic	C. H. Van Orden	314,757	Mar. 31	2312	615	30	1258
Railway tie or support	J. K. Clark	310,794	Jan. 13	810	219	30	159
Railway-tie support	A. A. Shobe	323,455	Aug. 4	92	27	32	540
Railway-ties. Apparatus for preserving	J. A. Mathien	332,097	Dec. 8	1265	328	33	1233
Railway time-indicator	J. P. Rhoads	326,059	Sept. 8	1119	285	32	1229
Railway time-signal. Electric	G. Cornell	332,496	Dec. 15	1809	475	33	1334
Railway-track	J. Frysinger	332,707	Dec. 22	2139	565	33	1398
Railway-track	S. W. Hudson	310,281	Jan. 6	159	45	30	31
Railway-track chair	A. A. Strom	332,760	Dec. 22	2205	581	33	1411
Railway-track fastening	A. M. Trude	329,867	Nov. 3	598	153	33	617
Railway-track flanger and snow-plow	H. G. H. Reed and J. Donohue	328,718	Oct. 20	1603	418	33	306
Railway-track gage and level	S. McManus	323,351	July 28	2662	708	32	507
Railway-track gage and level. Combined	D. H. Rhodes	331,329	Dec. 1	102	24	33	1017
Railway-track gage, level, and gradient	C. M. Ferguson	321,895	Nov. 10	641	164	33	632
Railway-track inspector. Automatic	P. C. Compton	331,674	Dec. 1	684	165	33	1115
Railway track-layer	D. F. Holman	315,034	Apr. 7	63	15, 16	31	13
Railway-track scraper	H. M. Littell	320,263	June 16	1757	467	31	1383
Railway track. Street	F. J. Underwood	310,234	Jan. 6	92	24	30	20
Railway-track support and traction-cable and electric-conductors conduit. Combined	J. H. Gould	325,531	Sept. 1	427	106	32	1098
Railway-track to be used in connection with variable railway-trucks	G. W. Bemis, Sr.	313,978	Mar. 17	1296	337	30	1034
Railway-tracks and gas-pipe lines. System for the protection of	G. Westinghouse, Jr.	314,069	Mar. 17	1432	374	30	1060
Railway-tracks. Apparatus for laying	C. R. Goodman	312,626	Feb. 24	1594	436	30	669
Railway-tracks. Construction of	T. H. Gibbon	317,988	May 19	1425	382	31	802
Railway-tracks. Construction of	T. H. Gibbon	320,809	June 23	2602	669	31	1548
Railway-tracks. Destroying grass, weeds, &c., on	D. Hawskworth	330,700	Nov. 17	1695	457	33	846
Railway-tracks. Device for destroying vegetation along	D. Hawskworth	330,701	Nov. 17	1697	458	33	846
Railway-tracks. Gage and level indicating device for	F. B. Stevens	325,706	Sept. 8	657	166	32	1143
Railway-tracks. Machine for clearing the sides of	D. M. Harris	325,340	Sept. 1	145	40	32	1042
Railway-tracks. Machine for cutting grass and weeds from	W. H. Bartels	325,584	Sept. 1	490	122	33	1109
Railway traction-cables. Cable-way for	T. L. Johnson	310,284	Jan. 6	162	45, 46	30	32
Railway. Traction elevated	W. Pyle	318,027	May 19	1481	397	31	811
Railway. Traction-rope	D. J. Miller	325,004	Aug. 25	2191	600	32	951
Railway-train alarm	S. C. Pullman	315,662	Apr. 14	949	249	31	177
Railway-train indicator	W. Akin	331,859	Dec. 8	911	235	33	1169
Railway-trains. Device for operating rear signal-lights of	I. H. Congdon	329,439	Nov. 3	16	5	33	508
Railway-trains. Operating electric	F. J. Sprague	318,666	May 26	2323	622	31	976
Railway-trains. Pneumatic time-signal for	C. M. Sexton	317,224	May 5	404	101	31	507
Railway turn-table	J. A. Kneeder	319,625	June 9	1165	308	31	1270

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Railway turn-table. Cable.....	C. M. Porter.....	316,482	Apr. 28	2082	544	31	305
Railway water-tank.....	A. Roberts.....	322,068	July 14	906	234	32	173
Railway. Wire rope or cable.....	C. W. Rasmussen. (Reissue).....	10,602	May 26	2696	714	31	1041
Railways and electrical-wire conduits. Combined supporting-bracket for underground traction.....	G. B. Bryant.....	318,951	June 2	18	5	31	1032
Railways. Apparatus for automatically indicating or signaling the passage of trains upon.....	H. Lebasteur and S. H. Rouart.....	332,913	Dec. 22	2410	637	33	1440
Railways. Automatic block-signal for.....	L. B. White.....	330,180	Nov. 10	1021	267	33	706
Railways, &c. Automatic time-signal for.....	F. H. Young and F. I. Davis.....	311,706	Feb. 3	321	88	30	400
Railways. Cable-supporting sheave for cable.....	W. H. Paine.....	331,237	Nov. 24	2415	635	33	925
Railways. Carrying-pulley for cable.....	R. Gillham.....	312,624	Feb. 24	1501	436	30	669
Railways. Carrying-pulley for cable.....	R. Solano.....	331,836	Dec. 8	881	227	33	1103
Railways. Chair used for fixing lines of.....	J. E. B. Armytage.....	333,437	Dec. 29	3133	819	33	1523
Railways. Concrete tube for cable.....	J. D. Isaacs.....	318,623	May 26	2209	605	31	964
Railways. Conductor for electric.....	J. Hopkinson.....	325,083	Aug. 25	2220	630	32	971
Railways. Conduit for cable and electric.....	I. W. Heyssinger.....	325,173	Aug. 25	2397	660	32	991
Railways. Conduit for cable or electrical.....	E. Samuel.....	315,841	Apr. 14	1193	311	31	223
Railways. Conduit for the cables of cable.....	R. Solano.....	331,837	Dec. 8	883	228	33	1103
Railways, &c. Construction and operation of permanent.....	W. F. Goodwin.....	334,212	Sept. 15	1328	344	32	1274
Railways. Curvilinear conduit for cables of cable.....	R. Solano.....	331,835	Dec. 8	880	227	33	1103
Railways. Double cable for cable.....	T. L. Johnson.....	310,285	Jan. 6	165	46	30	33
Railways. Driving mechanism for cable.....	D. J. Miller.....	329,757	Nov. 3	448	113	33	589
Railways. Electric grip for.....	J. C. Henderson.....	323,075	Aug. 4	352	109	32	524
Railways, &c. Electrical conductor for.....	J. Perry and W. E. Ayrtton.....	326,237	Sept. 15	1360	352	32	1280
Railways. Grip for cable.....	C. Scholz.....	325,633	Sept. 1	551	140	32	1120
Railways. Guard-rail lock for.....	F. H. Orcutt.....	316,291	Apr. 21	1807	475	31	340
Railways. Hydromotor for street.....	R. F. Bridewell.....	326,198	Sept. 15	1305	339	32	1270
Railways. Lock-plate for portable.....	H. Franke.....	315,006	Apr. 14	877	230	31	163
Railways. Mold for concrete tubes for cable.....	R. Gillham.....	330,013	Nov. 10	802	205	33	661
Railways. Pneumatic block signal for.....	W. H. Schmels.....	314,080	Mar. 17	1388	353	30	1052
Railways. Rail-scraper for street and other.....	W. H. Robertson.....	324,731	Aug. 18	1807	499	32	575
Railways. Reduction of friction between the rails and wheels on cars on street.....	D. A. Boland.....	317,492	May 12	770	196	31	671
Railways. Rolled or forged metal chair for.....	A. J. Moxham.....	316,985	May 5	90	24	31	539
Railways. Slot-iron for cable.....	E. D. Dougherty.....	333,305	Dec. 29	2825	729	33	1329
Railways. Subway or conduit for cable or electric.....	T. C. Clarke.....	317,302	May 5	506	129	31	616
Railways. Superstructure of elevated.....	W. F. Sherman.....	318,213	May 19	1715	459	31	856
Rain-water escape.....	O. D. Townsend.....	316,853	Apr. 28	2506	679	31	490
Rake:							
See Garden-rake. Horse-rake.							
Hand-rake. Lawn-rake.							
Harvester-rake. Stalk-rake.							
Hay-rake. Sulky-rake.							
Rake.....	A. P. Clarke.....	316,604	Apr. 28	2230	567	31	494
Rake.....	C. J. Higgins.....	333,990	Dec. 29	2856	773	33	1354
Rake.....	J. P. Stabler.....	320,597	June 23	2263	598	31	1024
Rake.....	M. F. Thayer and J. S. Smith.....	322,022	July 14	844	220	32	102
Rake.....	G. H. Van Winkle.....	333,207	Dec. 29	2915	763	33	1546
Rake and hoe. Combined.....	J. W. Calef.....	322,254	July 14	1139	297	32	217
Rake and pitchfork. Combined.....	A. Alderman.....	313,843	Mar. 17	1105	297	30	999
Rake and tedder. Combined.....	J. Lee, Jr.....	319,274	June 2	411	109	31	1125
Rake-teeth.....	F. G. Goettmann, Sr.....	330,108	Nov. 10	929	243	33	699
Rake-teeth. Machine for bending.....	A. J. Green.....	321,019	June 30	2810	747	31	1583
Rakes. Making.....	F. S. Kretzinger.....	320,479	June 23	2107	555	31	1454
Rakes. Making.....	W. H. Kretzinger.....	329,600	Oct. 20	1563	407	33	299
Rakes. Manufacture of.....	A. P. Clarke.....	323,013	Aug. 11	688	193	33	600
Ram elevator. Hydraulic.....	J. Moore.....	322,857	July 28	2100	550	32	405
Ram for raising water. Combined electrical and water.....	F. E. Fisher.....	319,805	June 9	1137	302	31	1265
Ramie and sugar-cane. Machine for treating.....	L. U. Fasnacht.....	324,674	Aug. 18	1737	478	32	861
Rand-trimming machine.....	J. Nagle.....	328,245	Oct. 13	956	240	34	182
Range-boller.....	E. Bourne.....	331,770	July 7	517	137	32	96
Range-doors. Safety device for.....	S. Wilks.....	324,441	Aug. 18	1414	386	32	601
Range or stove.....	I. Hayes.....	310,976	Jan. 6	153	42	30	30
Ranges. Apparatus for utilizing the waste heat from.....	W. T. Holland.....	324,641	Aug. 25	1967	540	32	911
Rapid-transit wrench.....	J. Du Shane.....	331,159	Nov. 24	2346	635	33	973
Rasp.....	J. Anthony.....	324,012	Aug. 25	2063	565	32	929
Rasp.....	T. Judge and T. Clayton.....	324,389	Aug. 18	1345	366	32	759
Rat and mouse trap.....	T. P. Wise.....	323,717	Sept. 6	617	170	32	1147
Rat trap.....	S. Dennis.....	324,925	Aug. 25	2079	569	32	932
Rat trap.....	H. McGillis.....	327,704	Oct. 6	268	68	33	47
Ratchet-and-pawl mechanism.....	E. M. Palmer.....	321,523	July 7	162	43	32	32
Ratchet apparatus.....	G. M. Shaw.....	318,212	May 19	1713	458	31	856
Ratchet-brace.....	J. F. Allen.....	320,323	June 16	1879	473	31	1403
Ratchet-brace.....	E. H. Whitney.....	319,159	June 2	276	72	31	1098
Ratchet-drill.....	E. Anderson.....	316,321	Apr. 21	1845	477	31	347
Ratchet-drill.....	J. J. Banta.....	326,381	Sept. 15	1556	404	32	1317
Ratchet-drill.....	H. D. Hinkley.....	318,561	May 26	2202	588	30	922
Ratchet-drill.....	J. C. Imley.....	314,449	Mar. 24	1902	508	30	1158
Ratchet-drill.....	A. A. Strom.....	331,341	Dec. 1	116	27	32	1019
Ratchet-drill.....	I. D. Weaver.....	329,790	Nov. 3	487	123	32	596
Ratchet-drill.....	P. A. Whitney.....	329,986	Nov. 10	761	194	32	654
Ratchet driving mechanism.....	D. H. McCoy.....	322,622	July 21	1634	432	32	313
Ratchet mechanism for bit-braces, screw-drivers, &c.....	W. R. Clarkson.....	315,000	Apr. 7	20	5	31	6
Ratchet-wrench.....	I. P. Cornog.....	333,199	Dec. 29	2917	737	33	1237
Ratchet-wrench.....	L. Kramer and A. Elckhoff.....	326,876	Sept. 22	2247	586	32	1469
Ratchet-wrench.....	A. H. Rollin.....	324,169	Aug. 11	1072	299	32	722
Rattan. Die for cutting.....	H. Heywood and D. F. Pratt.....	311,658	Feb. 3	263	72	30	399

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Rattan-scraping machine	A. McDonald	314,042	Mar. 17	1368	357	30	1040
Razor	S. J. Dyer	328,202	Oct. 13	901	234	33	171
Razor-blade guard	J. Brady and A. V. Brokhahne	316,731	Apr. 28	2429	632	31	439
Razor-blade guard	A. V. Brokhahne	315,708	pr. 14	1010	266	31	189
Razor-guard	A. V. Brokhahne	311,466	Feb. 3	8	3	30	350
Razor-guard	H. Dufuf	311,067	Jan. 20	1190	327	30	234
Razor-guard	A. Partridge and D. F. Sweeney	330,418	Nov. 17	1342	357	33	776
Razor. Safety	A. Partridge	326,885	Sept. 22	2262	591	32	1451
Razor-strop	B. F. Badger	312,603	Feb. 24	1569	429	30	665
Razor-strop	W. D. Evans	312,104	Feb. 10	868	238	30	518
Razor-strop	A. McDonald	320,948	June 30	2712	719	31	1574
Razor-strop	J. T. Warren	331,853	Dec. 8	903	233	33	1167
Reamer	J. H. Brown	317,715	May 12	1051	274	31	723
Reamer	E. L. Lake	318,994	June 2	81	21	31	1063
Reamer	J. Neale	330,508	Nov. 17	1457	390	33	798
Reamer	J. Riddell and C. C. Trout	319,852	June 9	1197	317	31	1275
Reamer	G. R. Stetson	312,920	Feb. 24	1962	541	30	738
Reamer. Adjustable	P. J. Kelly and J. Groves	321,116	June 30	2942	780	31	1615
Reamer. Pipe	R. G. Marcy	325,948	Sept. 8	966	245	32	1201
Reamer-relieving machine	A. Whitney	323,006	July 28	2172	576	32	418
Reaper. Hand	G. J. Parham	310,537	Jan. 6	481	134	30	92
Reaping and mowing machine	L. A. Couteau	315,387	Apr. 7	549	142	31	99
Reaping and mowing machine	E. H. Heath and F. W. Moore	328,029	Oct. 13	678	178	33	130
Reaping and mowing machine. Cutting apparatus for.	E. Hazelton	331,968	Dec. 8	1069	277	33	1199
Reciprocating motor	W. F. Class and A. J. Weatherhead	328,545	Sept. 22	1757	460	32	1362
Reclining and rocking chair. Combined.	H. G. C. Lauer	319,732	June 9	1029	272	31	1247
Reclining-chair	F. W. Brooks	329,624	Nov. 10	631	160	33	630
Reclining-chair	F. W. Brooks	333,052	Dec. 22	2605	682	33	1484
Reclining-chair	E. G. Cameron	329,272	Oct. 27	2381	616	33	456
Reclining-chair	M. S. Curtiss	332,237	Dec. 15	1468	383	33	1274
Reclining-chair	J. P. Ellacott	311,882	Feb. 10	552	151	30	459
Reclining-chair	J. Gloekler	332,603	Dec. 15	1979	518	33	1363
Reclining-chair	G. A. Horn	316,913	May 5	57	15	31	533
Reclining-chair	F. Hunger	325,248	Sept. 1	21	7	32	1019
Reclining-chair	B. H. Mead	316,287	Apr. 21	1803	474	31	339
Reclining-chair	J. J. Mettler	327,298	Sept. 29	2807	731	32	1556
Reclining-chair	G. W. Munshower	323,624	Aug. 4	565	161	32	630
Reclining-chair	F. H. Plummer	318,795	May 26	2503	687	31	1006
Reclining-chair	F. H. Plummer	318,796	May 26	2506	688	31	1006
Reclining-chair. Adjustable	W. J. Maddox	320,265	June 16	1759	467	31	1394
Reclining-chair. Convertible	N. N. Horton	327,554	Oct. 6	71	16	33	14
Recorder:							
See Cable-recorder.	Passenger-recorder.						
Cash-recorder.	Time-recorder.						
Fare-recorder.							
Reduction-mill	H. C. Ingraham	323,040	July 28	2225	588	32	427
Reduction of solids. Machine for the	D. R. Baker	328,635	Oct. 20	1495	389	33	296
Reed	J. B. Hamilton	312,115	Feb. 10	886	241	30	531
Reed-board	F. Stone	315,449	Apr. 7	641	166	31	114
Reed-plates and reeds. Manufacture of	M. Bray	312,322	Feb. 17	1187	325	30	584
Reel:							
See Belt-reel.	Fringe-reel.						
Bolting-reel.	Harvester-reel.						
Centrifugal reel.	Hose-reel.						
Chalk-line reel.	Lace-reel.						
Fence-wire reel.	Laundry-reel.						
Fishing-reel.	Ribbon-reel.						
Fishing-line reel.	Ticket-reel.						
Fishing-tackle line-reel.	Wire reel.						
Flour-bolt reel.	Wire-unwinding reel.						
Reel-bolt	O. P. Hurford	331,240	Nov. 24	2421	656	33	986
Reel seat and band	J. M. King	333,135	Dec. 29	2782	717	33	1518
Reeling silk. Machine for	C. H. Knapp	312,865	Feb. 24	1922	526	30	727
Reflector	S. C. Mower	315,433	Apr. 7	622	160	31	111
Reflector	J. R. Park	320,494	June 23	2124	500	31	1457
Reflector	E. D. Peck	310,611	Jan. 13	579	160	30	117
Reflector	G. W. and L. A. Scovil	320,742	Nov. 17	1732	472	33	856
Reflector-holder for stationary lamps and other lights.	W. J. Wilkinson	324,627	Aug. 18	1672	461	32	848
Adjustable							
Reflector. Lamp	M. F. Potter	323,530	Aug. 4	192	56	32	558
Reflector. Lamp	J. H. White	322,142	July 14	1010	262	32	192
Reflector. Reversible	G. W. Kisinger	326,041	Sept. 8	1088	277	32	1222
Reflector. Self-acting solar	H. A. W. Braune	326,711	Sept. 22	1987	521	32	1403
Refrigerating and dehydrating apparatus for meat, &c.	H. C. Johnson	328,784	Oct. 20	1674	436	33	321
Refrigerating and ice machine	W. H. Wood	321,669	July 7	344	91, 92	32	65
Refrigerating apparatus	A. Conacher	317,629	May 12	943	242	31	702
Refrigerating apparatus	N. W. Condict, Jr., and T. Rose	311,062	Jan. 20	1185	325	30	233
Refrigerating apparatus	C. H. Evans	329,320	Oct. 27	2550	657	33	485
Refrigerating apparatus	W. T. Forbes	321,702	July 7	393	105	32	73
Refrigerating apparatus	T. Krausch	316,900	Apr. 28	2666	694	31	503
Refrigerating apparatus	T. B. Lightfoot	325,097	Aug. 25	2306	634	32	974

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Refrigerating apparatus	A. Natanson	337,300	Sept. 29	2810	{ 732 733	32	1537
Refrigerating apparatus. Air	O. J. Ellis	323,304	July 28	2598	{ 689 690 691	32	495
Refrigerating apparatus. Air	C. P. Marshall	310,212	Jan. 6	68	18	30	15
Refrigerating apparatus for houses	J. and J. Stuber	324,278	Aug. 11	1192	324	32	732
Refrigerating apparatus for the transportation of meat, &c.	H. C. Johnson	316,975	May 5	58	16	31	533
Refrigerating apparatus. House	T. L. Rankin	316,292	Apr. 21	1808	{ 475 476	31	340
Refrigerating apparatus on railway-cars from the outside. Controlling the speed of mechanical	C. C. Palmer	330,046	Nov. 10	844	217	33	671
Refrigerating-car	D. Hennessy	321,002	July 7	265	70	32	51
Refrigerating-machine	C. G. Mayer	311,506	Feb. 3	61	18	30	360
Refrigerating-machine	A. Osenbrück	311,028	Jan. 20	1130	{ 308 309	30	223
Refrigerating paraffine-oils and other liquids. Apparatus for	H. H. Rogers and C. Vose	316,400	Apr. 21	1952	515	31	364
Refrigerating-rooms and liquids and apparatus used therefor.	F. Windhausen	323,767	Aug. 4	504	142	32	617
Refrigerating-tank	D. W. Curtia	329,626	Nov. 3	275	71	33	537
Refrigerating-vessel for cold storage	A. M. Blanchard	332,584	Dec. 15	1854	511	33	1358
Refrigeration. Compound liquid for use in the art of	J. H. E. Mendès	319,108	June 9	217	57	31	1087
Refrigeration for railway-cars, &c.	W. H. Doughty	311,296	Jan. 27	1531	417	30	302
Refrigeration. Separating and cooling a sealing or lubricating liquid in apparatus for producing	J. J. Suckert	320,308	June 16	1845	487	31	1396
Refrigeration. Separating and cooling a sealing or lubricating liquid in producing	J. J. Suckert	320,309	June 16	1848	487	31	1396
Refrigerator	W. S. G. Daker	310,975	Jan. 20	1061	286	30	289
Refrigerator	G. S. Brown	310,371	Jan. 6	281	77	30	54
Refrigerator	J. Castell	326,952	Sept. 29	2359	617	32	1476
Refrigerator	A. J. Chase	324,229	Aug. 11	1127	307	32	740
Refrigerator	E. Z. Collings and C. F. Pike	311,813	Feb. 3	453	123	30	433
Refrigerator	E. Z. Collings and C. F. Pike	311,814	Feb. 3	454	123	30	434
Refrigerator	J. D. Colony	330,208	Nov. 10	1055	275	33	714
Refrigerator	J. A. Davis	322,043	July 14	872	{ 226 227	32	107
Refrigerator	J. Falkner	332,884	Dec. 29	2379	627	33	1441
Refrigerator	F. Hainsworth	331,296	Dec. 1	56	13, 14	33	1009
Refrigerator	W. I. Hall	317,126	May 5	962	65	31	571
Refrigerator	J. M. Harney	321,213	June 30	3062	812	31	1638
Refrigerator	J. Koch	320,802	June 23	2516	666	31	1522
Refrigerator	J. Linslev	310,211	Jan. 6	66	18	30	15
Refrigerator	P. L. Maltbie	319,986	June 16	1396	367	31	1318
Refrigerator	A. McKenzie	332,417	Dec. 15	1712	448	33	1317
Refrigerator	H. Nehrllich and A. Neubecker	331,536	Dec. 1	368	105	32	699
Refrigerator	A. L. Potter	323,733	Aug. 4	459	130	32	541
Refrigerator	J. A. Stocken	323,463	Aug. 4	103	30	32	541
Refrigerator	W. J. Taylor	320,722	June 23	2421	642	31	1514
Refrigerator	H. Von Rom	331,319	Dec. 1	129	32	33	1021
Refrigerator	J. Weitz	319,363	June 2	522	142	31	1147
Refrigerator	A. B. Wood	315,105	Apr. 7	160	38	31	30
Refrigerator and filter	A. McClain	314,597	Mar. 31	2106	{ 561 562	30	1920
Refrigerator-barrel and other like receptacles.	J. W. Weston	317,902	May 12	1306	349	31	771
Refrigerator-building	J. F. Hanrahan	322,446	July 21	1396	{ 366 367	32	270
Refrigerator-building	J. F. Hanrahan	322,448	Oct. 20	1272	330	33	247
Refrigerator building and apparatus	T. R. Wingrove	319,374	June 2	534	{ 145 146	31	1150
Refrigerator building and chamber	R. and W. A. H. Bogardus, 2d	319,444	June 9	641	174	31	1177
Refrigerator-car	T. N. Ely and J. W. Cloud	312,230	Feb. 24	1871	512	30	719
Refrigerator-car	H. C. Johnson	322,684	Oct. 20	1555	405	33	227
Refrigerator-car	C. C. Palmer	330,044	Nov. 10	819	216	33	670
Refrigerator-car	C. F. Pierce	315,543	Apr. 14	707	211	31	148
Refrigerator car and chamber	R. Bogardus	319,443	June 9	639	173	31	1177
Refrigerator-cars. Mechanism for transferring power from the axles of railway-cars to	C. C. Palmer	330,045	Nov. 10	840	{ 216 217	33	670
Refrigerator-door	G. A. McArthur	313,876	Mar. 17	1148	299	30	1007
Refrigerator for preserving oysters, clams, &c.	L. Faber	310,886	Jan. 20	926	253	30	187
Refrigerator-house	D. F. Gerald	333,407	Dec. 29	3097	807	33	1577
Refrigerator, ice-box, and cool storage-room	J. Folger	313,308	Mar. 3	394	98	30	645
Refrigerator ice-holder	C. Huss	321,364	June 30	3251	868	31	1278
Refrigerator. Milk	R. R. Stone	330,751	Nov. 17	1766	476	33	838
Refrigerator. Portable	W. C. Thayer	333,264	Dec. 29	2911	{ 761 762	33	1545
Refrigerator-rack	I. Osgood	317,645	May 12	1226	324	31	756
Refrigerator-safe for bread, cake, &c.	H. D. Streater	332,367	Dec. 15	1647	431	33	1306
Refrigerator-sideboard	A. Dow and L. H. Gorgas	316,608	Apr. 28	2237	569	31	425
Refrigerator structures. Wall for	A. J. Chase	318,870	May 26	2610	692	31	1025
Refrigerator system for cars	D. Hennessy	321,601	July 7	263	70	32	50
Refrigerator-wagon	I. M. Hoffman	321,970	July 14	769	201	32	148
Refrigerator water-cooling attachment	J. E. Guenther	314,175	Mar. 17	379	404	30	1079
Refrigerator. Window cold-air	C. W. Roth	318,507	May 26	2108	569	31	938
Refrigerators, &c. Non-conducting composition for	J. M. Ordway	310,461	Jan. 6	1544	105	30	74
Regenerative furnace	G. Leuffgen	313,348	Mar. 3	441	{ 111 112	30	858
Regenerative furnace	T. T. Morrell	313,754	Mar. 10	976	229	30	867
Regenerative furnace for steel-making	F. W. Dick and J. Riley	328,389	Oct. 13	1156	298	33	218
Regenerator-furnace	W. S. McKenna	314,861	Mar. 31	2421	{ 656 657	30	1269

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Register:							
See Billiard-register.	Fare-box register.						
Bottledrink-register.	Money-drawer register.						
Car-register.	Morse register.						
Cash-register.	Passenger-register.						
Distance-register.	Telephone call-register.						
Electric register.	Time-register.						
Fare-register.							
Register	I. A. Kilmer	323,340	July 28	2644	704	32	504
Register-front	S. Tuttle, Jr.	311,154	Jan. 20	1314	361	30	256
Register or counter for machines, steam-engines, pumps, &c.	H. Beard	329,996	Nov. 10	777	200	33	657
Registering apparatus	W. M. Bushfield	327,134	Sept. 29	2597	676	32	1517
Registering apparatus. Electrical	C. W. Weiss	321,069	June 30	2884	767	31	1606
Registering-machine. Automatic	W. H. Barber	322,120	Oct. 27	2171	562	33	415
Regulator:							
See Clock-regulator.	Heat-regulator.						
Damper-regulator.	Hydraulic regulator.						
Draft-regulator.	Hydraulic-pressure-regulator.						
Electric-light-regulator.	Pendulum-regulator.						
Electric-machine-regulator.	Pressure-regulator.						
Electric-motor-regulator.	Pump-regulator.						
Electric-motor-regulator.	Roller-mill feed-regulator.						
Feed-regulator.	Speed-regulator.						
Fluid-regulator.	Steam draft and pressure-regulator.						
Gas-regulator.	Temperature-regulator.						
Gas and water-regulator.	Time-piece regulator.						
Gas-pressure-regulator.	Watch-regulator.						
Grain-separator	Windmill water-regulator.						
blast-regulator.	Windmill water-supply-regulator.						
Rein attachment. Check	J. C. Kelton	331,892	Dec. 8	961	248	33	1178
Rein attachment. Check	W. W. Thompson	320,724	June 23	2424	642	31	1514
Rein. Check	S. H. Stewart	318,819	May 26	2537	676	31	1012
Rein clasp. Check	H. P. Kent	316,370	Apr. 21	1913	506	31	359
Rein. Driving	A. Warth	319,360	June 2	519	141	31	1146
Rein fastener. Check	W. A. Wales	320,728	June 23	2428	644	31	1515
Rein. Harness check	J. Fowler	315,399	Apr. 7	572	147	31	103
Rein-holder	T. W. Hammond and M. D. Quaid	319,244	June 2	376	100	31	1118
Rein-holder	W. F. Hood	327,879	Oct. 6	478	125	33	85
Rein-holder	L. A. McCord	315,311	Apr. 7	454	114	31	82
Rein-holder	F. S. Osborn	320,277	June 16	1789	476	31	1388
Rein-holder	C. Schoch	312,517	Feb. 17	1462	400	30	635
Rein-holder	G. O. Teeter	320,723	June 23	2423	642	31	1514
Rein-holder	M. Walter	317,690	May 12	1023	265	31	717
Rein-holder	J. F. A. Winkelmann	314,356	Mar. 24	1785	475	30	1135
Rein-holder	Q. M. Youngs	314,409	Mar. 24	1850	493	30	1148
Rein holder. Check	W. D. Taber	325,225	Sept. 1	76	22	32	1030
Rein holder. Check	W. D. Taber	333,151	Dec. 22	2581	678	33	1481
Rein holder. Check	J. W. Trussell	313,131	Mar. 3	120	29	30	799
Rein-hook	D. Hutchinson	310,569	Jan. 13	555	154	30	112
Rein hook. Check	E. Kohler	325,642	Sept. 1	522	132	32	1114
Rein spring. Check	L. E. Champlain and G. G. Winans	312,330	Feb. 17	1195	327	30	585
Rein spur. Driving	F. B. Bever	319,179	June 2	296	79	31	1102
Rein-support	T. Desjardins	331,479	Dec. 1	318	85	33	1055
Rein-support	W. S. R. Tarkington	321,460	July 7	69	19	32	15
Rein supporter and protector	J. A. Cushwa	310,883	Jan. 20	923	252	30	186
Rendering-tank	V. D. Anderson	318,156	May 19	1645	439	31	842
Rendering tank. Lard and oil	H. Hall	318,592	May 26	2102	567	31	936
Rendering tank. Lard and oil	H. Hall	318,593	May 26	2103	567	31	937
Rendering-tanks. Apparatus for treating the products of	L. J. Cadwell	320,911	June 30	2667	709	31	1566
Respiration. Apparatus for producing artificial	J. Ketchum	320,070	June 16	1505	399	31	1339
Respiration. Producing artificial	J. Ketchum	320,069	June 16	1503	399	31	1339
Respirator	M. Souvielle	314,070	Mar. 17	1402	366	30	1055
Retort	D. Jarves	317,135	May 5	274	69	31	573
Retort and crucible furnace	J. R. Moffitt	327,709	Oct. 6	275	70	33	48
Retort-furnace	W. Foulis	333,122	Dec. 29	2712	711 } 712 }	33	1509
Retorts. Apparatus for cleaning the residuum from zinc	W. and R. H. Lanyon	319,270	June 2	406	108	31	1124
Retorts. Machinery for charging	T. F. Rowland	322,128	July 14	985 } 256 } 257 }	32	188	
Reversible seat	J. R. Ritchie	318,296	May 19	1823	488	31	877
Reversible seat or bed-frame	J. and F. H. W. Livesey	324,129	Aug. 11	977	269	32	712
Reversing mechanism. Automatic	J. C. Poland	327,409	Sept. 29	2959	772 } 773 }	32	1581
Revolver	W. C. A. Bullock	320,910	June 30	2666	709	31	1566
Revolver	J. T. Smith	311,383	Jan. 27	1850	451	30	224
Revolver-lock	J. T. Smith	314,067	Mar. 17	1394	365	30	1054
Revolving chair	C. A. Graef	321,101	June 30	2928	775	31	1612
Revolving drop-leaf table	W. H. and D. Johnston	317,141	May 5	283	72	31	575
Revolving furnace	H. Mothey	325,259	Sept. 1	34	10, 11	32	1021
Revolving rake	J. H. M. Forck	310,954	May 5	33	9	31	529
Revolving stand	E. R. H. Teeter	312,528	Feb. 17	1473	403	30	637
Rheostat	J. Doyle	311,820	Feb. 3	460	125	30	435
Rheostat	J. Doyle	321,285	June 30	3149	840	31	1634
Rheostat	E. Weston	330,449	Nov. 17	1383	368	33	784
Rheotrope or current-reversing key	J. C. Ludwig	315,426	Apr. 7	614	158	31	110
Ribbon and braid holder	C. M. Stone	322,209	July 14	1088	292	32	207

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Ribbon and lace exhibitor and measurer.....	W. B. Gleason and M. J. Harrington.	332,074	Dec. 8	1927	390	33	1286
Ribbon-holder.....	H. W. Coburn and D. B. Van Fleet.	331,616	Dec. 1	565	137	33	1086
Ribbon-reel.....	J. E. McMurtrie.	329,191	Oct. 27	2270	588	33	434
Rice-cleaning machine.....	W. B. Vardell.	326,532	Sept. 15	1742	454	32	1332
Rice, Flake.....	J. F. Gent.	312,265	Feb. 17	1100	.....	30	568
Rice-huller.....	O. M. Newman.	317,840	May 12	1220	323	31	735
Riddle for extracting cockle and wild peas from grain.	W. Atwell and R. Floeter.	321,881	July 7	652	169	32	119
Riding-habit. Lady's.....	G. Müller.	320,954	June 30	2719	721	31	1575
Rigging-stretcher.....	H. H. Pickenpack.	311,605	Feb. 3	195	55		
Ring:							
See Ear-ring.	Lap-ring.						
Finger-ring.	Line-ring.						
Harness-ring.	Nose-ring.						
Key-ring.							
Ring-holder.....	M. Elsing.	331,780	Dec. 8	790	202	33	1148
Ring-traveler machine.....	R. J. Gilmore.	310,577	Jan. 13	537	147	30	108
Rings. Show-tray for.....	A. Friedenthal.	312,835	Feb. 24	1879	514		
Ripper and cutter. Combined.	J. W. Cole.	329,019	Oct. 27	2026	525	33	291
Ripping device.....	J. P. Lavigne.	322,299	July 14	1192	313	34	227
Rivet.....	W. C. Bray.	326,100	Sept. 15	1168	298	32	1245
Rivet.....	G. H. Meade.	328,704	Oct. 20	1581	419	33	302
Rivet.....	S. W. Shorey.	316,841	Apr. 28	2583	675	31	427
Rivet. Carriage-joint.	G. L. Crandal.	327,385	Sept. 20	2029	761	32	1576
Rivet-studs. Making.....	J. Tillotson.	321,260	June 30	3117	830	31	1648
Rivets. Making tubular.....	M. Bray.	328,757	Oct. 20	1644	428	33	315
Riveting-machine.....	T. Morton.	315,817	Apr. 14	1167	705	31	219
Riveting-machine.....	W. H. H. Sium.	326,252	Sept. 15	1389	361	32	1285
Riveting-machine.....	R. H. Tweddell, J. Platt, and J. Fielding.	310,546	Jan. 6	497	137		
Riveting-machine.....	R. H. Tweddell, J. Platt, and J. Fielding.	310,547	Jan. 6	498	138	30	95
Riveting sheets of metal.....	J. P. Gould.	315,020	Apr. 7	45	10	31	10
Road-engine.....	A. O. Frick.	314,172	Mar. 17	1541	403	30	1079
Road-engine.....	H. Schulze-Berge.	317,583	May 12	881	226	31	691
Road-machine.....	S. Pennock.	315,541	Apr. 14	793	210	31	147
Road or tramway for vehicles.....	M. A. Martindale.	315,047	Apr. 7	84	20	31	17
Road-worker. Steam.....	W. D. Yeager.	321,778	July 7	501	132	32	94
Road-working machine.....	S. F. Welch.	323,002	July 28	2167	575		
Roads. Constructing.....	H. W. Thornton.	323,026	July 28	2228	605	32	439
Roads. Forming tracks or ruts in ice-covered logging.	A. Gallinger.	326,209	Sept. 15	1326	343	28	1274
Roads. Machine for making, repairing, and cleaning.	G. W. Taft.	315,184	Apr. 7	228	68.69	31	51
Roads. Machine for making, repairing, and cleaning.	G. W. Taft.	331,920	Dec. 8	999	258	33	1185
Roads. Transporting loads over ice and snow.	F. B. Lowell.	316,553	Apr. 28	2166	570		
Roaster:							
See Coffee-roaster.	Peanut-roaster.						
Coffee or nut roaster. Peanut and coffee roaster.							
Roaster. Self-basting.....	N. R. Baar.	323,622	Aug. 4	320	92	32	528
Roasting-furnace.....	W. Black and T. Larkin.	322,780	July 21	1840	488	32	251
Roasting-furnace. Rotary.....	A. Arents.	321,780	July 7	504	134	32	94
Rock and coal drill.....	T. Willard.	323,007	July 28	2173	577	32	118
Rock and ore crusher.....	F. H. McDowell.	321,834	July 7	589	153	32	406
Rock and ore crushing machine.....	D. R. Fraser.	313,818	Mar. 10	1057	272	30	922
Rock breaker and pulverizer.....	W. S. Sharpneck.	315,670	Apr. 14	961	232	31	180
Rock-breaker. Submarine.....	T. F. Lonney.	315,520	Apr. 14	754	199	31	141
Rock-crusher.....	A. G. and J. M. Dyer.	310,656	Jan. 13	634	175		
Rock-crusher.....	C. W. Huson.	330,559	June 23	2210	584	31	1473
Rock-crusher.....	E. W. Jones.	329,048	Oct. 27	2068	517	33	298
Rock crusher and pulverizer.....	A. G. and J. M. Dyer.	311,235	Jan. 27	1437	392	30	865
Rock crusher or breaker.....	F. A. Huntington.	324,937	Aug. 25	2094	573	32	935
Rock-drill.....	G. R. Cullingworth.	322,195	Oct. 13	893	222	33	169
Rock-drill.....	P. H. Foley.	329,545	Nov. 3	169	44	33	537
Rock-drill.....	S. Hussey.	330,469	Nov. 17	1434	383	33	794
Rock-drill.....	S. Hussey.	330,981	Nov. 24	2065	559	33	922
Rock-drill.....	B. A. Legg.	317,949	May 12	1363	386		
Rock-drill.....	A. McConnell.	326,511	Sept. 15	1713	446	32	1346
Rock-drill.....	A. I. Parsons.	319,308	June 2	453	122	31	1134
Rock-drill.....	I. Reese.	322,642	July 21	1659	422		
Rock-drill.....	H. C. Sergeant.	326,597	Sept. 22	1829	481	32	1375
Rock-drill.....	H. C. Sergeant.	326,681	Sept. 22	1947	511	32	1326
Rock-drill.....	H. C. Sergeant.	326,682	Sept. 22	1950	512		
Rock-drill.....	C. S. Westbrook.	312,537	Feb. 17	1485	404	30	639
Rock-drill.....	C. S. Westbrook.	312,538	Feb. 17	1488	406	30	640
Rock-drill.....	C. S. Westbrook.	323,245	July 23	2503	665	32	79
Rock-drill.....	W. R. Willetts and H. Ball.	314,897	Mar. 31	2533	670	30	1277
Rock-drill.....	D. Wood.	316,716	Apr. 23	2403	626	31	453
Rock-drill.....	D. Wood.	319,653	June 9	922	215	31	1272
Rock-drill.....	L. S. Woodbury.	319,045	June 2	135	37	31	66
Rock-drill.....	L. S. Woodbury.	321,670	July 7	346	92	32	108
Rock-drill.....	G. F. Wynne.	314,213	Mar. 17	1324	419	30	1088
Rock-drill column-support.....	H. C. Sergeant.	315,668	Apr. 14	958	241	31	516
Rock-drill. Core.....	L. D. Conner and C. F. Peebles.	312,093	Feb. 10	857	235	30	171
Rock-drill core breaker and puller.....	F. D. Parker.	331,319	Dec. 1	85	21	33	1014
Rock-drill core-lifter.....	G. F. Case.	332,587	Dec. 15	1957	512	33	1332

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Disg.	Vol.	Page.
Rock-drill. Hand-power	L. W. Tracy	312,304	Feb. 17	1163	318	30	580
Rock-drill. Machine	C. O. Barlow	316,107	Apr. 21	1569	408	31	297
Rock-drill. Power	C. O. Barlow and G. T. Emery	316,106	Apr. 21	1567	408	31	297
Rock-drill. Steam	J. C. Githens	312,348	Feb. 17	1226	337	30	591
Rock-drill. Steam	A. C. Rand	328,612	Oct. 20	1452	378	33	279
Rock-drill support	S. Ingersoll	333,077	Dec. 22	2638	691	33	1490
Rock-drill support	G. W. Nixon	325,584	Sept. 1	465	118	32	1105
Rock-drill support	C. S. Westbrook	312,539	Feb. 17	1459	406	30	640
Rock-drill support	C. S. Westbrook	312,540	Feb. 17	1491	407	30	640
Rock-drill support	L. S. Woodbury	323,482	Aug. 4	125	36	32	545
Rock-drill tripod	G. R. Cullingworth	327,923	Oct. 6	540	141	31	97
Rock-drill tripod	G. M. Githens. (Reissue)	10,572	Mar. 17	1589	420	30	1089
Rock-drill tripod-support	H. C. Sergeant	316,666	Apr. 28	2309	606	31	438
Rock-drill valve	G. R. Cullingworth	319,653	Jan. 13	629	174	30	126
Rock-drills. Core breaker and lifter for annular	A. Ball	315,887	Apr. 14	1264	329	31	215
Rock-drills. Core breaker and lifter for annular	A. Ball	315,888	Apr. 14	1267	329	31	236
Rock-drills. Core breaker and lifter for annular	A. Ball	315,889	Apr. 14	1268	330	31	216
Rock-drills. Friction-clutch for	G. M. Githens	317,113	May 5	237	60	31	567
Rock-drills. Rotating feed for steam	J. C. Githens	312,346	Feb. 17	1224	337	30	591
Rock-drills. Rotatory feed for	E. E. Quimby	312,383	Feb. 17	1264	349	30	599
Rock-drills. Rotatory feed for steam	J. C. Githens	312,347	Feb. 17	1225	337	30	591
Rock drilling and tunneling machine	R. Dalsell	332,592	Dec. 15	1961	514	33	1360
Rock-drilling and well-boring machine	L. B. Embry	321,700	July 7	389	103	32	73
Rock-drilling machine	W. H. Clark	330,376	Nov. 17	1287	341	33	766
Rock-drilling machine	G. R. Cullingworth	322,196	Oct. 13	894	232	33	169
Rock-drilling machine	J. Hammer and X. Kern, Jr.	318,727	May 26	2404	641	31	990
Rock-drilling machine	M. Macdermott and W. Glover	320,371	June 16	1960	515	31	1420
Rock-drilling machine	H. F. Parsons	314,343	Mar. 24	1769	471	30	1131
Rock-drilling machine	C. F. Peebles	331,435	Dec. 1	258	69	33	1044
Rock-drilling machine	J. M. Richardson	311,786	Feb. 3	422	114	30	427
Rock-drilling machine	L. W. Tracy	314,755	Mar. 31	2310	614	30	1277
Rock-drilling machine. Support for	J. B. Waring	312,412	Feb. 17	1304	360	30	607
Rock. Hardening and coloring serpentine	J. J. Pratt	313,522	Mar. 10	667	324	30	910
Rock-pulverizer	D. C. Kbaugh	312,343	Feb. 17	1217	335	30	589
Rock-pulverizer	J. L. Hayward	323,674	Aug. 4	381	108	32	594
Rocker. Platform	J. S. Piper	329,254	Nov. 3	583	149	33	614
Rocket	E. F. Linton	310,508	Jan. 13	566	156	30	114
Rocking-chair	F. H. Brown	328,000	Oct. 13	642	109	33	123
Rocking-chair	N. G. Franzen	323,137	July 28	2351	624	32	452
Rocking-chair	G. W. Large	322,943	July 28	2077	533	32	401
Rocking-chair	A. H. Ordway	329,479	Nov. 3	73	20	33	519
Rocking-chair	A. H. Ordway	329,480	Nov. 3	74	20	33	519
Rocking-chair	J. E. Wakefield	321,063	June 30	2878	765	31	1604
Rocking-chair attachment	W. I. Bunker	313,707	Mar. 10	905	235	30	955
Rocking-chair. Base	G. A. Watkins	326,361	Sept. 15	1537	399	32	1313
Rocking-chair fan attachment	J. Britton	322,893	July 28	2011	531	32	388
Rocking-chair fan attachment	J. Engel	316,762	Apr. 28	2471	644	31	467
Rocking-chair. Platform	J. W. Kenna	313,429	Mar. 3	543	143	30	878
Rocking-chair spring attachment	W. I. Bunker	314,513	Mar. 24	1998	532	30	1173
Rocking-chairs, &c. Base for	M. V. B. Evesson	319,397	June 2	562	153	31	1155
Rocking-chairs. Spring attachment to platform	S. Willershausen	315,870	Apr. 14	1237	322	31	231
Rocking-horse	W. E. Crandall	326,721	Sept. 22	2035	529	32	1410
Rocking propeller	C. Toennies	319,351	June 2	505	138	31	1144
Rod:							
See Connecting-rod	Sounding-rod.						
Fishing-rod.	Stair-rod.						
Pitman-rod.	Sucker-rod.						
Rod and bolt clipper	H. W. Parker	328,249	Oct. 13	960	250	33	182
Rod and bolt cutter	D. R. Nichols	328,772	Sept. 22	2098	545	32	1421
Rod-cutter	C. F. Stackpole	327,610	Oct. 6	144	34	33	27
Rod joint or coupling	H. C. Lowrie	317,154	May 5	304	77	31	578
Rod joint or coupling	H. C. Lowrie	317,155	May 5	305	78	31	579
Rod-pointing machine	J. Wilson	323,616	Aug. 4	306	88	32	579
Rods. Flexible coupling or joint for wooden	H. C. Lowrie	317,157	May 5	309	78	31	579
Roll-couplings. Binder for	S. M. Guss	319,240	June 2	373	99	31	1118
Roll-feed mechanism. Intermittent	H. K. Jones	314,451	Mar. 24	1904	508	30	1158
Roll for bending plate metal	R. Kent	325,677	Sept. 8	614	155	32	1136
Roll for metal rods	W. A. McCool	319,832	June 9	1176	310	31	1272
Roll for rerolling old rails	W. H. Graham and A. C. Milliken	321,102	June 30	2929	776	31	1612
Roll-grinding apparatus	H. B. Chess	330,561	Nov. 17	1522	407	33	810
Rolls. Adjusting device for	A. N. Miller	318,574	May 26	2214	592	31	954
Rolls. Dressing	R. Brown	326,263	Sept. 15	1401	305	32	1217
Roller:							
See Composite roller.	Shade-roller.						
Cartain-roller.	Skate-roller.						
Door-roller.	Window-screen roller.						
Gate-roller.	Window-shade roller.						
Land-roller.							
Roller and cultivator. Combined	R. B. Ralls	330,514	Nov. 17	1467	392	33	800
Roller-bearing. Anti-friction	E. B. Lake	332,091	Dec. 8	1258	317	33	1231
Roller-mill	F. H. Bolte and H. G. Thede	330,288	Nov. 10	1156	307	33	734
Roller-mill	S. R. Campbell	310,374	Jan. 6	285	78	30	55
Roller-mill	F. Ferrier	312,623	Feb. 24	1590	435	30	669
Roller-mill	J. M. Finch	313,816	Mar. 10	1055	271	30	982
Roller-mill	J. W. Galloway	313,312	Mar. 3	409	99	30	849
Roller-mill	W. Griscom, T. McFeely, and E. T. Butler	325,601	Sept. 1	510	127	32	1112
Roller-mill	N. W. Holt	310,430	Jan. 6	345	95	30	67
Roller-mill	W. Krutzsch	328,413	Oct. 13	1190	308	33	225

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dis.	Vol.	Page.
Roller-mill	J. D. Millar	311,508	Feb. 3	63	19	30	361
Roller-mill	H. F. Saint Requier	330,364	Nov. 10	1123	299	33	727
Roller-mill	G. T. Smith and W. F. Cochrane	312,392	Feb. 17	1277	353 354	30	602
Roller-mill	J. Warrington	312,048	Feb. 10	791	216 217	30	503
Roller-mill	J. L. Willford	315,301	Apr. 7	313	76, 77	31	36
Roller-mill driving mechanism	J. V. Hecker	321,600	July 7	263	60	32	54
Roller-mill feed-distributor	J. Kincaid	314,687	Mar. 31	2222	590	30	1241
Roller-mill feed mechanism	W. Hutchison	321,030	June 30	2828	732	31	1594
Roller-mill feed-regulator	F. M. Tatlow	314,627	Mar. 31	2150	571	30	1227
Roller-mill feeder	J. Mooney	326,512	Sept. 15	1714	447	32	1347
Roller-mill feeder	L. Nolden and A. E. May	326,447	Sept. 15	1634	427	32	1331
Roller-mill feeder	J. W. Wilson	314,552	Mar. 24	2046	545	30	1181
Roller-mill feeding device	G. W. Pierce	320,262	June 16	1796	478	31	1329
Roller-mill pressure-indicator	E. Strong	311,927	Feb. 10	625	173	30	473
Roller-mill roll	J. W. Jackson	326,121	Sept. 15	1192	305	32	1249
Roller-mill scraper	J. Warrington	314,278	Mar. 24	1678	447	30	1115
Roller-mills, &c. Feed-regulator for	S. Leatham	329,057	Oct. 27	2079	540	32	369
Roller-press	C. F. Schmidt	325,447	Sept. 1	314	76	32	1075
Roller-roughing machine	A. Mitchell	317,167	May 5	325	81	31	328
Rolling axles, spindles, and other metal articles. } Machine for	M. E. Shay	311,924	Feb. 10	619	171 172	30	472
Rolling beams	C. L. Taylor and J. Skewis	318,220	May 19	1727	462	31	659
Rolling billets. Machine for	J. S. Seaman	318,513	May 26	2117	571 572	31	929
Rolling car-rails. Roll for	A. J. Moxham	319,009	June 2	96	25, 26	31	1068
Rolling car-rails. Roll for	A. J. Moxham	330,908	Nov. 24	2066	565	33	925
Rolling flat and nut bars. Machine for	W. D. Eynon	321,230	Nov. 24	2406	651	33	923
Rolling girder-rails. Roll for	A. J. Moxham	330,997	Nov. 24	2085	564	33	925
Rolling irregular forms. Machine for	L. D. Farra	312,107	Feb. 10	870	228	30	516
Rolling machine. Metal-	J. Beavis (Reliance)	10,594	May 5	756	191	31	668
Rolling metal cylinders. Machine for	V. Daelen	323,281	July 28	2547	677 678	32	468
Rolling-mill	J. M. Baker	323,100	July 28	2307	609 610	32	443
Rolling-mill	A. P. Brown	316,232	Apr. 21	1726	453	31	326
Rolling-mill	H. B. Chees	321,794	July 7	523	138 139	32	97
Rolling-mill	C. F. Elmes	321,427	July 7	20	4	32	7
Rolling-mill	J. Hemphill	313,306	Mar. 3	244	61, 62	30	622
Rolling-mill	E. B. Meatyard	324,867	Aug. 25	2006	550 551	32	918
Rolling-mill	C. Schulz	327,728	Oct. 6	300	76, 77	33	52
Rolling-mill	F. H. Treat	314,063	Mar. 17	1416	370 371 372	30	1658
Rolling-mill	F. H. Treat	323,431	Dec. 29	2127	617 618	32	1522
Rolling-mill	J. T. Wainwright	324,222	Aug. 11	1196	325	32	753
Rolling-mill-adjusting device	J. Wood	319,654	June 9	929	946	31	1222
Rolling-mill appliance	D. H. Lentz	314,297	Mar. 24	1707	454 455	30	1120
Rolling-mill brass	W. E. Harris	330,697	Nov. 17	1692	456	33	645
Rolling-mill. Continuous	E. S. Lenox	322,501	Oct. 20	1419	369 370	32	273
Rolling-mill feeding attachment	R. W. Hunt	312,640	Feb. 24	1614	443 444	30	673
Rolling-mill feeding device	W. B. Chisholm, J. Walker, and E. H. Martin	311,229	Jan. 27	1429	390	30	263
Rolling-mill feeding mechanism	R. W. Hunt and M. M. Suppes	323,510	Aug. 4	167	49	32	553
Rolling-mill feeding-table	R. W. Hunt	310,893	Jan. 20	934	254	30	168
Rolling-mill for rails	A. J. Moxham	312,213	Feb. 10	1031	229	30	546
Rolling-mill for rods	J. T. Rowley	311,920	Feb. 10	613	169	30	479
Rolling-mill for rolling leafed wire for the manu- } facture of barbed wire	F. H. Treat	314,062	Mar. 17	1415	369 370	30	1658
Rolling-mill for tramway-rails	H. Koehler	311,250	Jan. 27	1455	397	30	228
Rolling-mill for wire rods	W. Garrett	320,237	June 16	1729	459	31	1379
Rolling-mill furnaces. Charging-carriage for	J. L. McDonald	323,186	July 28	2428	643	32	466
Rolling-mill guide	W. H. Jarvis	330,708	Nov. 17	1704	460	33	847
Rolling-mill hooking and carrying machine	L. S. Saylor	320,973	June 30	2753	731 732	31	1581
Rolling-mill overfeed-regulator	W. W. McCallip	331,516	Dec. 1	368	99	33	1064
Rolling-mill plant	W. Garrett	319,693	June 9	971	257 258	31	1227
Rolling-mill plant	W. Garrett	319,694	June 9	974	258	31	1227
Rolling-mill. Rail	H. C. Kriete	311,588	Feb. 3	175	49	30	221
Rolling-mill roll	D. W. Bradford	324,207	Aug. 25	1921	522	32	902
Rolling-mill. Wire-rod	H. Grey and R. Bowater	322,281	July 14	1169	306	32	222
Rolling-mills. Automatic feeding-table for	R. W. Hunt and M. M. Suppes	311,899	Feb. 10	590	161 162	30	466
Rolling-mills. Catcher and drag-out for	H. B. Chees	319,725	June 9	1102	292 293	31	1229
Rolling-mills. Wheel-gearing for rollers of	F. Wegmann	319,648	June 9	923	244	31	1226
Rolling nut-blanks. Machine for	F. H. Brown	323,106	Dec. 29	2629	705	33	1505
Rolling-pin	F. Prentis	330,421	Nov. 17	1345	352 353	33	777
Rolling tubes. Machinery for	C. Kellogg	324,117	Aug. 11	957	263 264	32	768
Rolling wire. Billet for	W. A. Sweet	321,658	July 7	331	86	32	63
Roof	A. L. Linsdaley	332,720	Dec. 22	2157	569	33	1492
Roof	J. G. Staunton	314,076	Mar. 17	1408	367	30	1056
Roof. Adjustable	L. D. Vogel	313,550	Mar. 10	713	186	30	919
Roof and bridge truss	G. H. Pegram	314,262	Mar. 24	1653	428 429	30	1110
Roof. Cement	A. N. D. Delfs	321,800	July 7	533	141	32	89

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	De'g.	Vol.	Page.
Roof cleat. Tin.	W. C. Rockwell	331,655	Dec. 1	690	153	33	1107
Roof. Fire and water proof.	M. W. Powell	318,023	May 19	1472	394	31	810
Roof. Fire proof composite.	T. H. White	313,971	Mar. 17	1292	335	30	1032
Roof for hay and grain ricks. Portable.	W. R. Heath	318,248	May 19	1761	471	31	865
Roof for portable houses. Metal-covered.	E. Lee	318,270	May 19	1792	479	31	870
Roof. Metal	L. L. Sagendorph	313,376	Mar. 3	473	123	30	865
Roof or bridge truss	J. H. Jones	318,626	May 26	2272	606	31	965
Roof. Portable	H. C. Herron	321,722	July 7	415	111	32	78
Roof. Self-supporting	J. Scheidler	332,115	Dec. 8	1295	336	33	1237
Roof. Sheet-metal	G. B. Weast	329,789	Nov. 3	467	123	33	567
Roof-tiles. Device for fastening	F. Plumb	317,414	May 5	658	167	31	642
Roofs and walls. Metallic plate for covering.	G. A. Nebeling	317,176	May 5	336	85	31	585
Roofs. Attaching slates to	G. Martin	313,506	Mar. 10	648	168	30	906
Roofs. Construction and preservation of shingle	H. W. Gates	315,830	Apr. 14	1326	345	31	246
Roofs of buildings. Truss-frame for	W. P. Buckley	319,681	June 9	1243	328	31	1283
Roofs, telegraph-wires, &c. Composition mastic for covering	A. Derrom	315,487	Apr. 14	709		31	132
Roofs. Turner for tin	R. F. Snow	329,684	Nov. 3	348	89	33	570
Roofing	B. B. Adams	326,374	Sept. 15	1550	402	32	1316
Roofing	C. H. Starr	320,508	June 23	2145	566	31	1461
Roofing	W. H. Stewart	332,570	Dec. 15	1932	505	33	1355
Roofing-anchor. Sheet-metal	W. A. List	332,413	Dec. 15	1708	447	33	1310
Roofing and siding board	J. W. Crabbe	318,672	May 26	2611	693	31	1025
Roofing-bracket	E. Prescott	311,670	Feb. 3	283	78	30	402
Roofing. Cap and anchor for metallic	B. F. Caldwell	318,352	May 19	1911	515	31	891
Roofing cleats. Machine for bending tin	S. A. Phillips	312,013	Feb. 10	751	205	30	495
Roofing. Composite	W. Coultas	311,569	Feb. 3	148		30	376
Roofing, &c. Composition for gravel or granite	T. Vaughan	310,625	Jan. 13	596		30	119
Roofing composition of tar, cement, &c.	K. Wildhagen	315,584	Apr. 14	654		31	158
Roofing compound	H. C. Hawes and J. E. Green, 2d	316,964	May 5	46		31	531
Roofing compound	C. B. Hutchins	333,467	Dec. 29	3177		33	1590
Roofing. Compound for coating metallic	S. B. Johnston and S. Hunter	314,584	Mar. 31	2091		30	1517
Roofing. Felt	L. F. Blair and J. W. Roche	322,153	July 14	1020	265	32	124
Roofing-felt and its manufacture	J. Jowitt	318,910	May 26	2644	704	31	1034
Roofing-felt. Manufacture of	W. H. H. Childs	314,429	Mar. 24	1679	501	30	1153
Roofing-finishing	L. D. Cortright	313,852	Mar. 17	1114	285	30	1001
Roofing for buildings	L. D. Cortright	313,853	Mar. 17	1116	289	30	1001
Roofing for buildings and other structures	S. G. Tufts	315,977	Apr. 14	1391	361	31	256
Roofing-gage	A. W. Brightwell	320,428	June 16	2035	534	31	1432
Roofing. Iron	W. C. Langenau	317,381	May 5	611	156	31	635
Roofing. Machine for double-seaming tin	E. L. Osborn	322,648	July 21	1838	512	32	368
Roofing. Machine for edging and seaming tin	J. J. Cowell	332,643	Dec. 15	2031	533	33	1373
Roofing. Machine for making metallic	F. A. Guthrie	318,559	May 26	2198	567	31	951
Roofing machine. Sheet-metal	J. L. Holton	310,924	Jan. 13	848	230	30	166
Roofing. Manufacture of ridge-caps for corrugated	J. Smith	317,968	May 12	1258	335	31	762
Roofing material. Apparatus for manufacturing flexible	L. L. Sagendorph	310,544	Jan. 6	494	137	30	95
Roofing. Metal	J. H. Eller	326,958	Sept. 29	2366	618	32	1477
Roofing. Metal	B. Goodman	319,228	June 2	355	95	31	1115
Roofing. Metallic	F. A. Guthrie	324,994	Aug. 25	2178	596	32	949
Roofing. Metallic	L. H. Montross	319,921	June 9	1295	342	31	1293
Roofing. Metallic	J. F. Stuckert	332,219	Dec. 8	1440	372	33	1263
Roofing. Metallic	J. C. Wanda	310,669	June 9	1222	322	31	1279
Roofing-plate	J. Sporny and I. Zarski	322,990	July 28	2150	571	32	415
Roofing. Plate	J. F. Stuckert	332,220	Dec. 8	1441	372	33	1263
Roofing-plates. Device for bending	B. F. Caldwell	329,713	Nov. 3	368	99	33	570
Roofing. Sheet-metal	L. L. Sagendorph	312,658	Feb. 24	1635	450	30	678
Roofing-tile	J. E. Donaldson	322,917	July 28	2044	540	32	395
Roofing-tile. Flexible	L. B. Snow	320,979	June 30	2761	734	31	1583
Roofing. Water-proof wood-pulp board for	J. F. Fogg	319,606	June 9	1139		31	1266
Root-digger	C. S. Torrey	326,462	Sept. 15	1651	431	32	1335
Rope-buckle	V. P. Travers	315,659	Apr. 14	1223	319	31	229
Rope-clamp	S. H. Magco	319,591	June 9	851	226	31	1214
Rope-clamp	J. Weigel and J. Barclay	325,136	Aug. 25	2353	648	32	983
Rope-coupling device	J. and J. J. Milne	330,722	Nov. 17	1723	465	33	851
Rope coupling. Hemp and wire	A. Engelmann	315,490	Apr. 14	711	188	31	133
Rope-driving machinery	W. H. Paine	331,239	Nov. 24	2420	656	33	986
Rope-fastener	S. J. Crites	321,799	July 7	533	141	32	99
Rope-fastener	T. Taylor	322,501	July 21	1427	390	32	286
Rope-lock	G. W. Cook	324,984	Aug. 25	2158	589	32	947
Rope or cord fastening	G. R. Peare	330,959	June 30	2732	727	31	1578
Rope-reel	W. M. Kizer and C. W. Clink	329,053	Oct. 27	2075	539	33	399
Rope-socket	J. H. Baner	310,360	Jan. 6	270	74	30	52
Rope-stopper	W. M. Bullivant	311,565	Feb. 3	145	41	30	376
Ropes and yarns. Manufacturing tarred	A. W. Montgomery	312,286	Feb. 17	1142		30	576
Rose-engine	A. Schwitter	314,064	Mar. 17	1304	364	30	1053
Rosin compounds. Manufacture of	D. J. Ogilvy	330,613	Nov. 17	1582		33	822
Rotary cutter	W. D. Orcutt	311,201	Jan. 27	1386	379	30	275
Rotary cutter	A. J. Wilbur	324,970	Aug. 25	2138	584	32	943
Rotary engine	J. A. Arthur	320,204	June 10	1679	417	31	1370
Rotary engine	C. S. Bird	331,224	Nov. 24	2398	648	33	982
Rotary engine	M. Boyne and A. E. Smith	329,619	Nov. 3	267	69	33	556
Rotary engine	W. H. Conner and G. M. Sheffer	330,001	Nov. 10	764	201	33	658
Rotary engine	F. H. Crass	324,353	July 14	1266	331	32	241
Rotary engine	J. W. Dunfee	317,751	May 12	1099	288	31	731
Rotary engine	J. Harrington	332,253	Dec. 15	1487	389	33	1278
Rotary engine	C. R. Harvin	322,179	July 14	1054	273	32	200

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Rotary engine.	A. Hemsath	330,324	Nov. 10	1201	321	33	743
Rotary engine.	H. F. Hodges	323,038	July 28	2223	528	32	426
Rotary engine.	M. S. Huff	324,698	Aug. 18	1771	428	32	827
Rotary engine.	C. F. Janssen	313,500	Mar. 10	640	166	30	905
Rotary engine.	D. McColgan	325,863	Aug. 25	1997	548	32	917
Rotary engine.	F. L. McIlvaine	330,504	Nov. 17	1451	388	33	798
Rotary engine.	C. H. Melville and T. W. Brown	310,531	Jan. 6	469	129	30	90
Rotary engine.	J. L. Mitchell	314,329	Mar. 24	1827	426	30	1143
Rotary engine.	J. Moffet	315,318	Apr. 7	461	117	31	84
Rotary engine.	F. C. Morton	310,843	Jan. 13	871	235	30	170
Rotary engine.	W. O'Keefe	326,054	Sept. 8	1106	282	32	1226
Rotary engine.	E. S. Pambla	330,417	Nov. 17	1340	356	33	776
Rotary engine.	H. Sewrey	321,254	June 30	3110	827	31	1646
Rotary engine.	J. C. Telfer	316,309	Apr. 21	1827	421	31	344
Rotary engine.	G. E. Toliver	327,621	Oct. 6	162	40	33	30
Rotary engine.	A. W. Van Dorston	322,765	Dec. 22	2211	523	33	1413
Rotary engine.	A. Wildern	323,993	Aug. 11	789	219	32	679
Rotary engine and pump.	J. Henderson	330,702	Nov. 17	1698	458	33	846
Rotary engine. Concentric.	J. B. Ewer	311,240	Jan. 27	1443	393	30	286
Rotary engine or pump.	C. H. Cary	326,543	Sept. 22	1753	459	32	1362
Rotary engine or pump.	R. H. Heenan and R. H. Froude	312,116	Feb. 10	887	242	30	521
Rotary engine. Reversible.	C. P. Case	313,055	Mar. 3	21	6,7	30	722
Rotary engine. Reversible.	C. P. Case	313,056	Mar. 3	28	7,8	30	723
Rotary lubricator.	D. L. McCorkindale	324,664	Aug. 25	2001	550	32	917
Rotary motor.	E. R. Baldwin	330,184	Nov. 10	1038	271	33	710
Rotary motor.	J. Fielding	324,246	Aug. 11	1147	313	32	741
Rotary motor.	C. A. Parsons	322,710	Oct. 20	1598	413	33	303
Rotary shears.	G. O. Gilmer	322,440	July 21	1385	363	32	269
Rotary shears.	E. Shepard	326,163	Sept. 15	1257	322	32	1261
Rotary steam-engine.	L. N. Begin	332,040	Dec. 8	1178	309	33	1217
Rotary steam-engine.	J. Beystrum	311,718	Feb. 3	332	92	30	412
Rotary steam-engine.	H. Moon	322,329	July 14	1317	343	32	250
Rotary steam-engine.	W. O. Owen, Jr.	330,347	Nov. 10	1237	329	33	749
Rotary steam-engine.	G. A. Pickup	318,794	May 26	2502	667	31	1066
Rotary steam-engine.	G. W. Stinebring	332,216	Dec. 8	1433	370	33	1222
Rotary steam-engine.	L. H. Timmons	320,725	June 23	2494	643	31	1514
Rotating apparatus. Hand-pressure.	A. Schmid	310,323	Jan. 6	219	60	30	42
Roughing-machines. Electrotype-plate-shaving attachment for.	E. A. Blake	325,781	Sept. 8	763	191	32	1162
Roughing-machines. Roll-guard for.	E. A. Blake	324,806	Aug. 25	1920	528	32	902
Roundabout.	G. Bungarz	326,474	Sept. 15	1663	435	32	1237
Roundabout.	W. Sasack	314,881	Mar. 31	2507	665	30	1294
Roving-can.	D. R. Kennedy	314,685	Mar. 31	2221	580	30	1240
Roving-frame, &c.	R. Curtis and W. H. Rhodes	323,857	Aug. 4	609	171	32	626
Roving for spinning purposes. Machinery for the manufacture of.	A. T. Atherton	311,096	Jan. 20	1231	337	30	211
Rowing appliance, &c.	G. W. Briggs	323,292	July 28	2565	683	32	491
Rowing apparatus.	W. Ciencoski	320,458	June 23	2004	549	31	1450
Rowing apparatus.	B. Docher	314,001	Mar. 17	1317	344	30	1059
Rowing-gear for boats.	D. Stocking	319,935	June 9	1318	348	31	1297
Rowlock.	O. B. Fenner	314,650	Mar. 31	2194	588	30	1225
Rowlock for racing-boats, &c.	E. F. Ward	317,430	May 5	687	173	31	647
Rubber and making same. Vulcanized soft.	F. Willhöft.	321,410	June 30	3314	...	31	1665
Rubber ball. India.	J. P. Rider	326,788	Sept. 22	2126	533	32	1227
Rubber bottles, &c. Closing the openings in.	E. A. Fellows	321,491	July 7	109	29	32	22
Rubber-covered bit.	H. S. Squier	331,009	Nov. 24	2009	568	33	926
Rubber-covered compound.	L. S. Hoyt	322,036	July 28	2071	551	32	400
Rubber from rubber waste. Recovering.	C. J. McDermott	311,135	Jan. 20	1287	...	30	252
Rubber, gutta-percha, &c. Manufacture of compounds of India.	A. H. Huth	326,220	Sept. 15	1338	...	32	1276
Rubber. Machine for cutting India.	J. Murphy	323,061	July 28	2253	596	32	432
Rubber plates for the vulcanizer. Preparing.	J. Spyer	320,960	June 30	2743	...	31	1523
Rubber tires, hoops, and bands to wheels, &c. Manufacture of and application of India.	C. Moseley and B. Blundstone	322,391	July 14	1319	...	32	250
Rubber tube for syringes, &c.	J. W. Gray	315,093	Apr. 7	49	11	31	11
Rubber. Vulcanizing.	F. W. Seabury	325,119	Aug. 25	2230	641	32	979
Rudder attachment.	W. Johnson	313,339	Mar. 3	422	108	30	855
Rudder-connection for boats.	E. D. Joyner	317,460	May 5	724	183	31	654
Rudder for vessels. Combination.	J. White, W. Rosa, J. T. Creasy, and W. H. Gritton, Jr.	316,099	Apr. 21	1555	405	31	295
Rudder-hanging and steering device.	E. H. Barney	319,685	June 9	941	249	31	1220
Rudders to boats. Attaching.	J. F. Mumm	310,458	Jan. 6	376	104	30	73
Rugs, &c. Machine for making.	C. W. Dikeman	320,339	June 16	1895	498	31	1407
Rugs. Manufacture of.	M. H. Brinkerhoff	328,283	Oct. 13	1000	260	33	540
Rule and square.	L. Hirsch	329,535	Nov. 3	124	49	33	517
Rule, calipers, and level. Combined.	C. D. Jansen	330,549	Nov. 17	1552	416	32	1098
Rule. Carpenter's.	W. H. Greene	325,533	Sept. 1	422	106	31	624
Rule. Dress-cutting.	A. M. Freeman	317,332	May 5	55	141	30	260
Rule-gage.	J. W. Hunt and J. Bressler	311,524	Feb. 3	169	48	30	677
Rule. Pocket.	H. Judd	330,637	Nov. 17	1870	506	33	677

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Ruler	M. Dittenhoefer	331,481	Dec. 1	320	86	33	1055
Ruler	H. C. Jewell	330,124	Nov. 10	856	248	33	684
Ruler	O. Pedersen	317,188	May 5	354	89	31	588
Ruler and linear spacer. Parallel and radial.	C. S. Gooding	328,608	Oct. 20	1537	400	33	294
Ruler and paper-cutter. Combination	R. S. Thain	325,992	Sept. 8	1024	360	32	1211
Ruling and engraving machine.	R. W. Bentley	313,648	Mar. 10	829	216 217	30	941
Ruling apparatus	D. E. Bedinger	329,099	Nov. 3	367	93	33	574
Ruling-machine	E. W. Blackhall	317,078	May 5	195	40	31	559
Ruling-machine	M. L. Metzger and A. Cooper	316,950	May 5	78	21, 22	31	537
Ruling-machine gate	E. Knapp	329,458	Nov. 3	37	11	33	511
Running-gear	G. W. Shaw	314,348	Mar. 24	1775	472	30	1133
Sabot. Ordnance	F. H. Williams	315,102	Apr. 7	157	38	31	29
Saccharine compound	C. Fahlberg	326,281	Sept. 15	1424		32	1292
Saccharine compounds. Manufacture of.	C. Fahlberg	319,082	June 2	183		31	1082
Saccharine compounds. Manufacture of	C. Fahlberg. (Reissue)	10,607	Dec. 1	759		33	1134
Saccharine liquors and production and recovery of these reagents. Process of and apparatus for baryta or strontia treatment of	H. Leplay	310,448	Jan. 6	365	101	30	71
Sack filler and weigher	H. T. Wiley	321,468	July 7	85	23	32	17
Sack filling and weighing apparatus	P. and C. Cailleaux	329,712	Nov. 3	326	90	33	579
Sack-holder	L. H. Guilford	314,730	Mar. 31	2576	682	30	1305
Sack-holder	J. W. Rush	314,300	Mar. 24	1713	455	30	1121
Sack-holder	C. D. Wood	310,353	Jan. 6	261	72	30	50
Sad-iron	J. B. Fink	317,936	May 12	1345	361	31	779
Sad-iron	G. W. Menough	328,800	Oct. 20	1095	441	33	325
Sad-iron	H. S. Pease	334,585	Aug. 18	1600	441	32	637
Sad-iron	W. C. Smalstig	327,331	Sept. 29	2, 47	742	32	1563
Sad-iron holder	W. M. McIntyre	326,313	Sept. 15	1474	383	33	1309
Sad-iron mold	S. H. Perin	329,943	Nov. 10	706	181	33	644
Saddle-bags	J. J. Stephens	321,152	June 30	2966	791	31	1624
Saddle-bar	T. J. Haslam	327,165	Sept. 29	2639	687	32	1525
Saddle. Gig.	B. J. Hayman	319,424	June 9	701	188	31	1187
Saddle. Harness.	B. F. Archer	313,153	Mar. 3	154	38	30	205
Saddle. Harness.	A. Arter and W. R. Knowles	318,848	May 26	2575	685	31	1019
Saddle. Harness.	C. E. Cahoon	318,232	May 19	1746	467	31	862
Saddle. Harness.	R. W. Cahoon	331,681	Dec. 1	662	164	33	1114
Saddle. Harness.	W. H. Flurer	315,757	Apr. 14	1091	286	31	204
Saddle. Harness.	A. Gilliam	332,340	Dec. 15	1605	421	33	1299
Saddle. Harness.	A. Jacquot	325,088	Aug. 25	2295	631 632	32	972
Saddle. Harness.	E. L. McClain	332,098	Dec. 8	1966	329	33	1233
Saddle. Harness.	E. L. McClain	332,099	Dec. 8	1968	329	33	1233
Saddle. Harness.	E. L. McClain	332,100	Dec. 8	1970	330	33	1233
Saddle. Harness.	E. Rosenberger	319,931	June 9	1313	346	31	1296
Saddle. Harness.	W. H. Sipperly	311,856	Feb. 3	512	138	30	444
Saddle. Harness.	W. H. Wheeler	310,238	Jan. 6	96	26	30	20
Saddle-born	F. Dehler	329,540	Nov. 3	165	43	33	536
Saddle pad. Harness.	E. E. Armstrong	311,940	Feb. 10	641	176	30	476
Saddle pad. Harness.	H. Leibe	331,509	Dec. 1	359	97	33	1062
Saddle. Riding.	M. L. Eckles	320,118	June 16	1576	416	31	1350
Saddle. Riding.	J. M. Fink	318,610	May 26	2235	602	31	962
Saddle. Riding.	A. C. Lambeth	328,232	Oct. 13	938	244	33	178
Saddle. Riding.	M. Macleod	321,830	July 7	585	152	32	107
Saddle. Riding.	A. M. Wallace	353,491	Dec. 29	3208	840	33	1595
Saddle. Riding.	T. J. Wint	330,522	June 23	2164	571	31	1464
Saddle-tree	A. C. Lambeth	328,231	Oct. 13	937	244	33	178
Saddle tree. Harness.	A. Gilliam	330,313	Nov. 10	1187	317	33	740
Saddle tree. Harness.	P. McFadden	316,801	Apr. 28	2519	658	31	476
Safe.	A. D. B. Douglas	316,250	Apr. 21	1752	461	31	331
Safe.	O. Gassett	326,424	Sept. 15	1606	418	32	1326
Safe.	J. R. Grove	333,068	Dec. 22	2622	687 688	33	1487
Safe.	E. Petit	325,765	Sept. 8	741	185	32	1150
Safe and flour-chest. Kitchen	W. Knowles	325,418	Sept. 1	270	67	32	1068
Safe and vault. Fire-proof	C. C. Gilman	332,246	Dec. 15	1478	386	33	1276
Safe attachment	C. Diebold	331,480	Dec. 1	318	86	33	1055
Safe bolt-work	T. M. Brintnall	315,231	Apr. 7	358	87	31	64
Safe bolt-work	T. M. Brintnall	315,232	Apr. 7	358	87, 88	31	64
Safe bolt-work. Device for operating	E. W. Fowler	331,390	Dec. 1	186	48, 49	33	1031
Safe bolt-work. Electric mechanism for operating	F. Sedgwick	329,223	Oct. 27	2315	599	33	443
Safe bolt-work. Electrical mechanism for operating	F. Sedgwick	329,222	Oct. 27	2314	599	33	443
Safe bolt-works. Device for operating	E. W. Fowler	317,986	May 19	1421	381 382	31	801
Safe. Burglar-proof	H. F. Newbury	323,590	Aug. 4	280	78, 79	32	571
Safe-door. Burglar-proof	H. B. Tripp	317,688	May 12	1020	264	31	717
Safe. Druggist's	T. Knoebel	332,661	Dec. 15	2060	541	33	1378
Safe. Fire and burglar proof	W. P. White	333,184	Dec. 29	2795	732	33	1523
Safe. Fire-proof	J. Farrel	328,113	Oct. 13	792	206	33	150
Safe. Fire-proof	T. S. Spivey	333,375	Dec. 29	3031	792	33	1566
Safe. Kitchen	J. F. Snyder and J. C. Knapp	319,034	June 2	122	33	31	1070
Safe-lock	A. Kirks	333,158	July 8	2377	630	32	457
Safe-lock mechanism	H. Gross	315,612	Apr. 14	887	233	31	165
Safe-lock mechanism	H. Gross	315,613	Apr. 14	892	234	31	166
Safe. Meat and provision	M. J. Holt	317,098	May 19	1440	386	31	804
Safe. Milk and food	G. W. Gordon	315,770	Apr. 14	1108	291	31	208
Safe. Provision	J. Odenbaugh	318,198	May 19	1698	454	31	852
Safe-spindles. Coupling device for	M. Hemler	320,250	June 16	1743	464	31	1371
Safe-spindles. Coupling device for	H. Pund	317,471	May 5	738	186	31	656
Safety-pin	H. St. John	313,691	Mar. 10	880	229	30	951
Safety-pin	E. Williams	323,143	July 14	1011	263	32	192
Safety pin and buckle. Combined	J. M. Wetherell	323,759	Aug. 4	492	139	32	615
Sail-boat	I. Garrard	313,664	Mar. 10	852	221 222	30	946

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Sail-reefing device	L. Hering	315,501	Apr. 14	725	192	31	135
Sail sheet and tack. Shifting the top	A. R. Winstead	329,988	Nov. 10	766	195	33	635
Sails of vessels. Rigging for	G. Bianchi	332,583	Dec. 15	1952	511	33	1338
Sails. Reefing upper top	R. M. Belfrage	313,979	Mar. 3	351	86	30	640
Salt. Apparatus for the manufacture of	N. S. Beardslee	320,207	June 16	1687	448	31	1371
Salt boiler or pan	J. Seely	319,630	June 9	900	238	31	1222
Salt-brine from deep salt-veins. Apparatus for making and raising	J. Peters	327,308	Sept. 29	2820	736	32	1538
Salt-brine from deep veins. Making and raising	J. Peters	327,307	Sept. 29	2820	736	32	1538
Salt-dredge	H. B. Beach	316,725	Apr. 28	2422	630	31	438
Salt-grainer	J. Cusson	315,390	Apr. 7	552	142	31	100
Salt-grainer	R. M. Hunter	312,563	Feb. 17	1520	414	30	646
Salt-grainer	C. A. Merrill	324,142	Aug. 11	992	273	32	715
Salt-grainer attachment	J. Cusson	321,345	June 30	3221	859	31	1069
Salt-hopper	J. M. Duncan	329,360	July 14	1974	373	32	942
Salt. Manufacture of	J. M. Duncan	321,347	June 30	3223	859	31	1069
Salt. Preparing celery	E. C. Harard	331,134	Nov. 24	2264	31	33	958
Salts. Apparatus for drying fusible	R. S. Penniman	321,636	July 7	305	81	32	58
Salter. Stock	S. C. Johnson	324,378	July 14	1301	340	32	947
Salting cattle. Device for	S. J. Cox	321,522	July 7	237	63	32	46
Sample-box	A. D. H. and E. H. Lieberthal	329,058	Nov. 3	312	80	32	564
Sample. Clothing	E. Clayton	323,113	July 28	2324	616	32	447
Sand and water feed mechanism	D. Shortleeve	315,848	Apr. 14	1203	314	31	225
Sand-blast process	J. E. Mathewson	321,512	July 7	143	38	32	28
Sand-drier	A. V. Hartwell	313,732	Mar. 10	942	244	30	961
Sand mold	J. Hobbs	320,934	June 30	2826	715	31	1571
Sand-paper-molding apparatus	F. W. Coy	325,789	Sept. 8	773	194	32	1164
Sand-paper roll	F. S. Strong	325,708	Sept. 8	667	167	32	1145
Sand separating and washing machine	P. M. Pfeil	324,158	Aug. 11	1030	279	32	719
Sand separating and washing machine	P. M. Pfeil	324,159	Aug. 11	1032	279	32	720
Sand-washing machine	C. W. Kilborn	314,822	Mar. 31	2465	651	30	1286
Sanitary appliance for children, &c.	E. H. Booth and F. N. Dyer	329,127	Oct. 27	2122	585	33	417
Sap-boiling apparatus	J. M. Sproat	318,815	May 26	2532	565	31	1011
Sash and door sticker	J. H. Glover	310,579	Jan. 13	540	148	30	109
Sash and frame. Window	G. W. Henry	321,603	July 7	206	71	32	51
Sash-balance	G. W. Arnold	319,379	June 2	541	147	31	1151
Sash-balance	O. Beebe	330,371	Nov. 17	1277	339	33	765
Sash-balance	D. E. Beverstein	328,563	Oct. 20	1324	300	33	967
Sash-balance	G. C. Bolgiano	325,152	Aug. 25	2379	633	32	957
Sash-balance	L. M. Devore	324,810	Aug. 25	1939	533	33	906
Sash-balance	H. E. Dorman	321,284	June 30	3148	839	31	1654
Sash-balance	J. Loch	328,324	Oct. 13	1052	272	33	199
Sash-balance	W. S. Michael and D. W. Geib	321,994	July 14	804	210	32	154
Sash-balance	T. Morton	315,533	Apr. 14	785	207	31	146
Sash-balance	W. Ormaby	329,409	Oct. 27	2595	669	33	493
Sash-balance	J. A. Rogers	332,363	Dec. 15	1642	430	33	1205
Sash-balance	S. H. Russell	320,856	Nov. 3	564	150	33	614
Sash-balance	N. J. Skaggs	328,347	Oct. 13	1064	292	33	206
Sash-balance	J. Weber	331,592	Dec. 1	525	127	33	1029
Sash-balance	A. Werner	321,671	July 7	641	166	32	117
Sash-balance	W. F. Winship	317,262	May 5	453	113	31	006
Sash-balancing device	H. Jones	321,035	June 30	2832	753	31	1597
Sash-bar	H. A. Streeter	316,582	Apr. 28	2202	579	31	418
Sash-cord fastener	W. Altick	322,773	Dec. 22	2222	586	33	1415
Sash-cord fastener	W. H. Christ	314,789	Mar. 31	2400	635	30	1274
Sash-cord fastener	O. W. Graves	322,707	July 21	1747	461	32	334
Sash-cord fastener	S. Land	327,270	Sept. 29	2778	721	32	1550
Sash-cord fastener	H. Smith, Jr.	310,193	Apr. 21	1681	441	31	319
Sash-cord fastener	C. C. Webb	327,627	Oct. 6	170	49	33	31
Sash-cord guide	H. L. Blodgett	322,005	Oct. 27	2001	521	33	327
Sash-cord guide	D. Shealy	312,025	Feb. 10	771	210	30	499
Sash-fastener	J. E. Alexander	332,472	Dec. 15	1720	466	33	1329
Sash-fastener	J. Ashton	314,162	Mar. 17	1525	400	30	1077
Sash-fastener	J. M. Atwood	330,307	Nov. 17	1273	328	33	764
Sash-fastener	J. T. Baringer	323,958	Aug. 11	796	221	32	620
Sash-fastener	W. J. Barron	325,481	Sept. 1	356	86	32	1063
Sash-fastener	F. A. Bascom	320,090	Sept. 15	1158	296	32	1244
Sash-fastener	J. Y. Bassell	321,176	June 30	3015	798	31	1629
Sash-fastener	J. Y. Bassell	323,020	July 28	2190	551	32	421
Sash-fastener	J. Y. Bassell	329,804	Nov. 3	507	130	31	601
Sash-fastener	J. W. Beatty	320,327	June 16	1883	424	30	1270
Sash-fastener	D. E. Beelick	314,722	Mar. 31	2378	629	30	196
Sash-fastener	O. Benson	310,930	Jan. 20	991	269	33	1027
Sash-fastener	M. Bourke	331,370	Dec. 1	162	41	30	300
Sash-fastener	W. Brown	311,288	Jan. 27	1521	414	31	495
Sash-fastener	W. J. S. Bryan and I. Boutell	316,875	Apr. 28	2629	624	30	565
Sash-fastener	F. M. Case	312,251	Feb. 17	1060	296	33	1225
Sash-fastener	S. N. Chapin	332,325	Dec. 15	1583	415	32	1442
Sash-fastener	C. O. Cole	326,848	Sept. 22	2207	575	33	965
Sash-fastener	W. S. Cunningham	322,426	July 21	1367	357	30	1392
Sash-fastener	B. S. Curry	314,918	Mar. 31	2561	677	32	1520
Sash-fastener	W. B. Dager	327,144	Sept. 29	2611	681	32	925
Sash-fastener	F. T. Davis	331,041	Nov. 24	2131	578	33	921
Sash-fastener	P. J. Donohue	317,321	May 5	535	136	31	021

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g	Vol.	Page.
Sash-fastener	L. S. Garrett	324,830	Aug. 25	1954	536	32	909
Sash-fastener	J. H. Hamaker	325,834	Sept. 8	832	208	32	1175
Sash-fastener	R. E. Henningsen	329,353	June 16	1924	507	31	1412
Sash-fastener	J. Huth	319,414	June 2	564	159	31	1159
Sash-fastener	J. Huth	333,228	Dec. 29	2860	747	33	1535
Sash-fastener	E. A. Johnson	315,294	Apr. 7	430	108	31	72
Sash-fastener	C. W. Littlefield	325,846	Sept. 8	845	212	32	1179
Sash-fastener	J. F. Mangans	318,998	June 2	85	22	31	1064
Sash-fastener	J. M. McCormick and C. McKinnon	325,754	Sept. 8	730	182	32	1157
Sash-fastener	C. W. Nida	318,576	May 26	2217	592	31	954
Sash-fastener	R. S. Noble	314,974	Mar. 31	2639	608	30	1315
Sash-fastener	J. Paillet	322,553	July 21	1543	408	32	297
Sash-fastener	E. T. Prindle	324,883	Aug. 25	2025	555	32	992
Sash-fastener	B. L. Rex	311,366	Jan. 27	1626	445	30	319
Sash-fastener	W. Robinson	321,055	June 30	2857	760	31	1601
Sash-fastener	T. B. Ross	319,324	June 2	474	123	31	1138
Sash-fastener	J. R. Rusby	320,175	June 16	1645	438	31	1363
Sash-fastener	A. Schmackers	323,741	Aug. 4	467	132	32	610
Sash-fastener	W. J. Slyder	319,427	June 2	602	163	31	1163
Sash-fastener	A. Stoler	332,170	Dec. 8	1372	355	33	1251
Sash-fastener	J. Walsh	317,051	May 5	158	40	31	551
Sash-fastener	F. A. Weston and H. C. Trost	311,049	Jan. 20	1162	317	30	229
Sash-fastener	N. Wilson	313,638	Mar. 10	814	213	30	939
Sash-fastener and lift. Combined	F. W. Seymour	312,023	Feb. 10	770	209	30	499
Sash-fastener and sash-lift. Combined	G. L. Elliott	313,580	Mar. 10	738	194	30	924
Sash-fastening	G. M. Baker	316,219	Apr. 21	1713	450	31	324
Sash-fastening	J. S. Crump	319,887	June 9	1949	329	31	1284
Sash-fastening	J. C. Hibbs	312,268	Feb. 17	1103	305	30	568
Sash-fastening	H. B. Ives	317,540	May 12	627	212	31	681
Sash-fastening	H. T. King	320,796	June 23	2506	664	31	1530
Sash-fastening	E. O. Ladd	313,503	Mar. 10	645	167	30	905
Sash-fastening	T. L. McKeen	316,225	Apr. 21	1801	473	31	339
Sash-fastening	T. L. McKeen	319,288	June 2	420	115	31	1129
Sash-fastening	W. Pohlmann	316,222	Apr. 28	2546	606	31	481
Sash-fastening	T. S. Smith	314,350	Mar. 24	1777	473	30	1133
Sash-fastening	G. Thumshirn	313,258	Mar. 3	328	81	30	836
Sash frame, holder, and casing for carriages, cars, and other uses.	A. Ayers	332,180	Dec. 8	1384	357	33	1252
Sash from frames. Device for removing window-	J. Bowbin and M. H. Croker	318,946	June 2	12	3	31	1051
Sash-holder	F. Aarsand and F. H. Sherer	312,215	Feb. 17	1176	322	30	582
Sash-holder	A. Ayers	329,003	Nov. 3	507	129	33	601
Sash-holder	F. H. Bultmann	315,474	Apr. 14	692	181	31	129
Sash-holder	F. Burnmeister	310,983	Jan. 20	1073	292	30	212
Sash-holder	S. W. Buzard	316,737	Apr. 28	2435	634	31	460
Sash-holder	F. P. Catlin	322,620	July 21	1506	366	32	200
Sash-holder	N. Clark	311,872	Feb. 10	540	148	30	457
Sash-holder	J. G. Fowler and W. H. Crisp	330,105	Nov. 10	925	240	33	689
Sash-holder	G. A. Grenville	317,121	May 5	258	64	31	570
Sash-holder	A. Haekins	321,252	Aug. 11	1153	314	32	745
Sash-holder	W. D. Isett	322,182	July 14	1057	274	32	201
Sash-holder	H. Laurence	326,226	Sept. 15	1347	348	32	1278
Sash-holder	C. Lee	319,275	June 2	413	110	31	1126
Sash-holder	J. McCormick	316,282	Apr. 21	1779	472	31	339
Sash-holder	G. W. Naylor	327,712	Oct. 6	281	72	33	49
Sash-holder	C. A. Paul	310,220	Jan. 6	76	20	30	17
Sash-holder	F. L. Rosentreter	324,885	Aug. 25	2027	555	32	922
Sash-holder	E. G. Rust	319,509	June 9	734	197	31	1193
Sash-holder	C. A. Sprague	331,660	Dec. 1	625	154	33	1107
Sash-holder	H. Stahl	321,603	Aug. 4	290	83	32	576
Sash-holder	A. L. Wilkinson	314,896	Mar. 31	2532	670	30	1297
Sash-holder and weather-strip. Combined	A. J. Davis	310,564	Jan. 13	521	143	30	106
Sash-lift handle	W. F. Smith	331,336	Dec. 1	110	26	33	1018
Sash-lock	H. E. Gilmore	320,551	June 23	2203	581	31	1471
Sash-lock	W. Lang	330,591	Nov. 17	1515	416	33	817
Sash-lock	T. R. Nichols	320,675	June 23	2365	624	31	1502
Sash-lock	E. T. Prindle and F. C. Baird	330,802	Nov. 17	1827	492	33	870
Sash or door fastener	C. Longbottom	333,240	Dec. 29	2874	751	33	1538
Sash pull. Window	H. B. Sargent	313,687	Mar. 10	875	228	30	950
Sash raising and lowering device. Window	H. Eitel and J. E. Hunt	312,262	Feb. 17	1097	303	30	567
Sash-supporter	J. D. Simmons	314,201	Mar. 17	1573	416	30	1085
Sash-weight	R. Vosburgh	326,073	Sept. 8	1140	220	32	1232
Sash-weight holder	J. Riley	314,608	Mar. 31	2120	565	30	1223
Sash-weights. Chill-mold for	R. Anderson	333,191	Dec. 29	2205	734	33	1525
Sash. Window	L. L. Arnold	333,434	Dec. 29	3134	819	33	1583
Sash. Window	L. and H. Fuller	323,867	Aug. 4	621	175	32	640
Sash. Window	C. J. Holmes	314,736	May 26	2414	644	31	992
Sash. Window	E. R. Mayer	317,659	May 12	1780	253	31	709
Sash. Window	H. Valk	320,195	June 10	1670	444	31	1368
Satchel-handle	A. Goertz	317,114	May 5	239	60	31	567
Satchel or bag handle. Sheet-metal	R. W. Chapman	317,300	May 5	504	128	31	615
Satchels. Fastener for hand	M. Rubin	333,625	Dec. 15	2004	525	33	1368
Sausage-stuffing machine	C. Forschner	316,352	Apr. 21	1812	418	31	354
Sausage-stuffing machine. Hydraulic	F. W. Therk Jr.	317,556	Mar. 10	710	185	30	918
Saving-box	F. W. Bossert	329,706	Nov. 3	379	96	33	577
Saw	E. Andrews	315,372	Apr. 7	530	136	31	96
Saw	E. Andrews	315,373	Apr. 7	531	136	31	97
Saw	E. Andrews	315,374	Apr. 7	532	136	31	97
Saw	M. Brown	324,357	Aug. 18	1300	353	32	781
Saw	T. Fowler	323,019	Oct. 13	668	175	33	128
Saw	J. Ledward	312,133	Feb. 10	905	247	30	524

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Saw	J. Ledward	325,679	Sept. 8	616	156	32	1136
Saw	A. Lord	311,435	Jan. 27	1719	468	30	326
Saw	C. Richardson	315,663	Apr. 14	970	249	31	177
Saw	I. M. Smith	318,316	May 19	1859	499	31	882
Saw	H. W. Wheeler	328,164	Oct. 13	853	222	33	161
Saw-arbor	H. D. Wolcott	314,637	Mar. 31	2163	574	30	1230
Saw article. Scroll	A. Bernritter	315,571	July 7	225	60	32	44
Saw-buck	W. F. Brock	323,107	July 28	2314	612	32	444
Saw-buck	C. Klein	321,823	July 7	577	150	32	106
Saw. Buck	A. H. Lucas	326,045	Sept. 8	1092	278	32	1223
Saw. Buck	S. Walter	315,577	Apr. 14	846	222	31	157
Saw. Chain	W. S. Shippe	323,602	Aug. 4	289	83	32	575
Saw. Chain	W. S. Shippe	325,364	Sept. 1	181	48	32	1048
Saw. Circular	E. Allen	318,958	June 2	1	1	31	1049
Saw. Circular	W. J. Perkins	320,681	June 23	2375	622	31	1504
Saw-clamp	G. Coffin	319,455	June 9	656	177	31	1179
Saw-clamp	A. F. Delafield	316,753	Apr. 28	2458	640	31	464
Saw. Drag	J. W. Anderson	320,039	June 16	1464	365	31	1331
Saw. Drag	A. P. Boston	329,531	Nov. 3	149	38	33	533
Saw. Drag	J. Burus	329,886	Nov. 10	633	161	31	670
Saw. Drag	J. H. Deam	317,745	May 12	1093	267	31	730
Saw. Drag	R. Gurney	322,596	July 21	1608	423	32	307
Saw. Drag	J. H. Hulburt	312,805	Feb. 10	1028	279	30	545
Saw. Drag	J. A. Owens	320,066	June 16	1530	405	31	1343
Saw. Drag	J. J. Parker	322,473	July 21	1436	377	32	577
Saw. Drag	M. O. Smith	312,299	Feb. 17	1157	316	30	579
Saw. Drag	F. C. Storrs	327,738	Oct. 6	307	79	33	54
Saw. Drag	F. A. Strong	314,152	Mar. 17	1513	396	30	1074
Saw fastenings. Device for adjusting	A. J. Linton and R. D. Stewart	312,870	Feb. 24	1927	527	30	726
Saw feed. Gang	J. H. Watson and C. H. Hubbell	331,500	Dec. 1	523	127	33	1089
Saw-filing device	C. F. Hill	319,489	June 9	707	190	31	1188
Saw-filing machine	J. W. Dale	327,774	Oct. 6	350	90	33	61
Saw-filing machine	H. Sherman	310,735	Jan. 13	736	200	30	146
Saw-filing machine	J. H. C. Winston	320,735	June 23	2434	645	31	1516
Saw-filing machine. Gin	J. S. Mosley and T. J. Mancill	328,423	Oct. 13	1903	311	32	222
Saw-filing machine. Gin	F. M. Sisk	326,167	Sept. 15	1261	324	32	1362
Saw-filing device. Crosscut	W. H. Desautreaux	322,165	July 14	1035	268	32	193
Saw-fitting tool	W. Golden	311,481	Feb. 3	28	7	30	332
Saw frame	S. Hale	327,792	Oct. 6	375	97	33	66
Saw frame rod	C. Tenney	310,866	Jan. 13	896	243	30	175
Saw-guard	J. A. Comer	321,484	July 7	103	26	32	81
Saw-guard	J. G. Groff	311,486	Feb. 3	34	10	30	355
Saw-guard	J. G. Groff	323,318	July 28	2613	605	29	499
Saw-guide	G. S. Black	315,229	Apr. 7	354	87	31	54
Saw-guide	G. S. Gardiner and J. W. McAuley	320,550	June 23	2208	581	31	1471
Saw-guide	D. Parkhurst	321,134	June 30	2961	785	31	1619
Saw-guide	H. W. Roberts	333,339	Dec. 29	3010	728	33	1258
Saw-guide	G. W. Rodebaugh	319,624	June 9	892	226	31	1521
Saw-guide track	P. Miller	332,273	Dec. 15	1512	396	33	1293
Saw-gummer	J. B. Clopton	323,114	July 28	2324	616	32	447
Saw-gummer	F. Herhold and J. E. Mills	330,399	Nov. 17	1319	351	33	772
Saw-gummer	J. R. B. Hunt	324,380	Aug. 18	1331	362	32	756
Saw-gummer	H. Inson	324,022	Aug. 11	837	222	32	687
Saw-gummer	H. Van Nostrand	312,935	Feb. 24	2000	547	30	742
Saw-gummer and sharpener	S. J. Randall	326,243	Sept. 15	1374	355	32	1222
Saw-gummer. Gin	W. F. Collier	328,654	Oct. 20	1520	395	33	291
Saw gumming and sharpening machine	J. Richardson	316,570	Apr. 28	2126	575	31	415
Saw. Hand	G. N. Clemson	325,157	Aug. 25	2376	654	32	987
Saw. Hand	A. Fornabder	330,104	Nov. 10	924	240	33	667
Saw-handle	F. A. Buell	314,562	Mar. 31	2067	559	30	1213
Saw handle	J. Hilton	323,508	Aug. 4	164	48	33	553
Saw-handle	R. E. Poindexter	327,015	Sept. 29	2433	636	32	1490
Saw-handle	C. Richardson	320,169	June 16	1638	425	31	1362
Saw-handle	W. R. Towse	323,833	Aug. 4	578	163	32	632
Saw handle. Crosscut	C. Eisenhardt	327,776	Oct. 6	353	91	33	62
Saw. Insertible-tooth	G. F. Simonds	326,085	Sept. 22	1954	513	32	1297
Saw-jointer	F. B. Fitzpatrick	318,713	May 26	2327	636	31	967
Saw-jointer	G. H. Mavor	314,040	Mar. 17	1367	356	30	1046
Saw jointing and setting device	J. L. Highbarger	317,774	May 12	1143	303	31	740
Saw jointing device	G. S. Black	315,228	Apr. 7	354	86	31	64
Saw jointing, gaging, and setting device	V. T. Cummings	317,442	May 5	702	177	31	650
Saw-mill	J. S. Miller and E. Lapham	332,101	Dec. 8	1362	353	33	1249
Saw mill. Band	D. K. Allington	327,428	Sept. 29	2960	779	32	1556
Saw mill. Band	J. Cook	321,194	June 30	3038	805	31	1633
Saw mill. Band	J. S. Miller	327,574	Oct. 6	94	21	33	12
Saw mill. Band	L. T. Pyott	325,629	Sept. 1	546	138	32	1119
Saw mill. Band	S. Stephens	322,365	Dec. 15	1644	431	33	1365
Saw mill. Band	T. B. Walker	326,094	Oct. 13	767	200	33	145
Saw-mill carriage	G. M. Hinkley	330,464	Nov. 17	1428	382	33	793
Saw-mill carriage	S. W. Little	330,720	Nov. 17	1720	464	33	850
Saw-mill carriages. Feed mechanism for	E. M. Birdsall and G. Stringer	319,181	June 2	298	79	31	1103
Saw-mill carriages. Feed mechanism for	W. A. Campbell	324,223	Aug. 11	1121	304	32	732
Saw-mill carriages. Feed mechanism for	H. R. Wolfe	324,059	Aug. 11	882	243	32	683
Saw-mill carriages. Steam-brake for	W. A. Campbell	314,650	Mar. 31	2122	578	32	1149
Saw mill. Circular	A. Brodgen	325,727	Sept. 8	691	172	33	1400
Saw mill. Circular	R. B. Holt	332,714	Dec. 22	2149	567	32	33
Saw mill. Circular	W. J. Perkins	321,525	July 7	164	44	32	33
Saw mill. Circular	H. Wright	332,691	Dec. 15	2102	553	33	1285
Saw-mill dog	A. Delaney and J. M. Bond	325,507	Sept. 1	392	97	32	1098

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Invention.	Name.	No.	Date.	Monthly volume.		Vol.	Official Gazette.
				Spec.	Dr. g.		
Saw-mill dog.....	A. Delaney and J. M. Bond.....	331,619	Dec. 1	570	{ 138 139 }	33	1097
Saw-mill dog.....	E. and C. M. Drake.....	310,190	Jan. 6	41	{ 139 140 }	30	10
Saw-mill dog.....	W. A. Durrin.....	315,133	Apr. 7	191	{ 47 48 }	31	35
Saw-mill dog.....	W. H. Frazier.....	330,309	Nov. 10	1183	{ 316 317 }	33	740
Saw-mill dog.....	L. Johnson.....	311,222	June 30	3072	{ 815 816 }	31	1640
Saw-mill dog.....	D. Lane.....	316,273	Apr. 21	1787	{ 469 470 }	31	337
Saw-mill dog.....	W. H. Snyder.....	314,671	Mar. 17	1403	{ 396 397 }	30	1055
Saw-mill dog.....	H. M. Wilcox.....	314,279	Mar. 24	1670	{ 447 448 }	30	1115
Saw-mill dog.....	T. S. Wilkin.....	313,395	Mar. 3	500	{ 130 131 }	30	869
Saw-mill dog.....	E. G. Woodworth.....	327,137	Oct. 6	185	{ 45 46 }	33	33
Saw-mill head-block.....	G. M. Pelton.....	327,103	Sept. 29	2558	{ 667 668 }	32	1710
Saw-mill head-block.....	H. C. Robb.....	313,531	Mar. 10	675	{ 177 178 }	30	911
Saw-mill head-block.....	T. S. Wilkin.....	311,701	Feb. 3	316	{ 87 88 }	20	408
Saw-mill head-blocks. Indicator-attachment for.....	L. W. Forbes.....	316,532	Apr. 28	2141	{ 563 564 }	31	407
Saw-mill. Portable.....	J. N. Richey.....	331,653	Dec. 1	617	{ 152 153 }	33	1106
Saw-mill. Portable.....	H. Wright.....	332,690	Dec. 15	2100	{ 552 553 }	33	1385
Saw-mill. Reciprocating.....	D. C. Prescott.....	319,619	June 9	867	{ 235 236 }	31	1220
Saw-mill. Reciprocating.....	A. Rodgers.....	324,273	Aug. 11	1187	{ 322 323 }	32	751
Saw-mill roller.....	S. B. Pierce.....	314,470	Mar. 24	1941	{ 517 518 }	30	1164
Saw-mill set-works.....	A. Delaney and J. M. Bond.....	321,282	June 30	3145	{ 539 540 }	31	1653
Saw-mill set-works.....	G. Hanson and C. D. Clark.....	326,291	Sept. 15	1440	{ 375 376 }	32	1295
Saw-mill set-works.....	D. L. Harbach.....	330,020	Nov. 10	812	{ 209 210 }	33	663
Saw-mill set-works.....	D. Lane.....	317,378	May 5	608	{ 156 157 }	31	634
Saw-mill set-works.....	C. W. Metcalfe.....	324,576	Aug. 18	1588	{ 438 439 }	32	1334
Saw-mill set-works.....	T. J. Neacy.....	333,344	Dec. 29	2880	{ 752 753 }	33	1539
Saw-mill set-works.....	D. C. Prescott.....	310,848	Jan. 13	877	{ 237 238 }	30	172
Saw-mill set-works.....	B. E. Sergeant.....	317,221	May 5	400	{ 100 101 }	31	596
Saw-mill set-works.....	W. H. Snyder.....	316,209	Apr. 21	1817	{ 478 479 }	31	342
Saw-mill set-works.....	T. S. Wilkin.....	313,396	Mar. 3	502	{ 130 131 }	30	869
Saw-mill set-works.....	T. S. Wilkin.....	317,256	May 5	446	{ 111 112 }	31	604
Saw-mill set-works. Indicator for.....	A. J. West.....	325,295	Sept. 1	92	{ 26 27 }	32	1032
Saw-plates. Machine for milling recesses in.....	J. E. Emerson.....	315,753	Apr. 14	1085	{ 284 285 }	31	203
Saw punching and setting machine.....	J. Laybolt.....	330,499	Nov. 17	1444	{ 380 381 }	33	796
Saw-set.....	J. A. Borthwick.....	320,753	June 23	2457	{ 651 652 }	31	1521
Saw-set.....	H. M. Chamberlin.....	325,052	Aug. 25	2248	{ 617 618 }	32	964
Saw-set.....	J. A. Fischer.....	318,712	May 26	2385	{ 636 637 }	31	986
Saw-set.....	R. F. Gibbs.....	331,877	Dec. 8	935	{ 241 242 }	33	1173
Saw-set.....	W. Kopf.....	314,944	Mar. 31	2596	{ 687 688 }	30	1309
Saw-set.....	J. Laybolt.....	330,031	Nov. 10	824	{ 211 212 }	33	666
Saw-set.....	J. S. Long.....	326,305	Sept. 15	1486	{ 381 382 }	32	1300
Saw-set.....	L. F. Markham.....	325,101	Aug. 25	2310	{ 636 637 }	32	975
Saw-set.....	G. Marsh.....	326,308	Sept. 15	1469	{ 382 383 }	32	1301
Saw-set.....	W. O. Smith.....	327,609	Oct. 6	142	{ 34 35 }	33	27
Saw-set.....	J. B. Tupper.....	313,557	Mar. 10	711	{ 185 186 }	30	919
Saw-set.....	M. B. W. Wheeler.....	323,005	July 28	2171	{ 576 577 }	32	418
Saw-set and nail-punch. Combined.....	A. F. Poelman.....	319,019	June 2	107	{ 29 30 }	31	1068
Saw-sets. Feed mechanism for.....	H. H. Hitchcock.....	325,080	Aug. 25	2285	{ 628 629 }	32	970
Saw-setting device.....	T. Gibbons.....	318,976	June 2	64	{ 16 17 }	31	1060
Saw-setting device.....	G. H. Massingham.....	325,951	Sept. 8	969	{ 246 247 }	32	1202
Saw-setting machine.....	H. F. Jenks and W. H. Butman.....	328,035	Oct. 13	666	{ 181 182 }	33	131
Saw-setting machine.....	J. H. C. Winston.....	325,035	Aug. 25	2224	{ 610 611 }	32	959
Saw sharpening and gumming machine.....	J. H. Tetman.....	324,434	Aug. 18	1406	{ 383 384 }	32	799
Saw sharpening and setting machine.....	E. and A. Prat.....	316,568	Apr. 28	2153	{ 575 576 }	31	415
Saw-sharpening device.....	W. Tucker.....	327,416	Sept. 20	2968	{ 775 776 }	32	1583
Saw-sharpening machine.....	L. Bush, Jr.....	315,715	Apr. 14	1018	{ 268 269 }	31	191
Saw-sharpening machine.....	M. Cove.....	319,794	June 9	1115	{ 296 297 }	31	1261
Saw-sharpening machine.....	A. C. Eidelbach.....	318,363	May 19	1921	{ 518 519 }	31	894
Saw-sharpening machine.....	J. P. Hansen.....	319,512	June 9	1149	{ 304 305 }	31	1267
Saw-sharpening machine.....	D. W. Johns.....	332,611	Dec. 15	1986	{ 520 521 }	33	1365
Saw-sharpening machine.....	E. Mossberg.....	329,936	Nov. 10	697	{ 178 179 }	33	642
Saw. Splitting.....	W. G. Hawley.....	331,195	Nov. 24	2356	{ 637 638 }	33	975
Saw-staple cutting machine.....	A. E. Hoffman.....	315,033	Apr. 7	62	{ 15 16 }	31	13
Saw-swing.....	A. Carmichael.....	316,113	Apr. 21	1578	{ 410 411 }	31	290
Saw-swing.....	D. B. Hanson.....	330,306	Nov. 17	1314	{ 349 350 }	33	771
Saw-swing.....	W. C. B. Hummel.....	324,701	Aug. 18	1773	{ 459 460 }	32	568
Saw-swing.....	N. Johnson.....	327,271	Sept. 29	2772	{ 719 720 }	32	1540
Saw-swing.....	T. Newnam.....	315,820	Apr. 14	1170	{ 306 307 }	31	219
Saw-swing.....	A. S. Parke.....	315,539	Apr. 14	791	{ 209 210 }	31	147
Saw-swing.....	W. D. Sherman.....	326,164	Sept. 15	1258	{ 323 324 }	32	1561
Saw-swing.....	H. R. Wolfe.....	315,104	Apr. 7	159	{ 35 36 }	31	30
Saw-swing.....	H. R. Wolfe.....	323,996	Aug. 11	793	{ 221 222 }	32	679
Saw-swing.....	L. B. Young.....	312,061	Feb. 10	611	{ 221 222 }	30	507
Saw-swinging and jointing machine.....	W. Lyon.....	321,376	June 30	3264	{ 871 872 }	31	1677
Saw-swinging device.....	H. Williamson.....	325,467	Sept. 1	336	{ 81 82 }	32	1079

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Saw-swaging machine.	B. H. Miller	310,708	Jan. 13	705	198	30	149
Saw-swaging machine.	G. F. Simonds and L. Blake	328,528	Oct. 20	1331	345	33	228
Saw-swaging machine.	P. R. Ward	326,360	Sept. 15	1535	388 309	32	1313
Saw-table.	L. R. Benurmann	311,170	Jan. 27	1234	387	30	367
Saw-table gage.	M. B. Banowetz	322,775	July 21	1834	465	32	339
Saw-table gage.	J. D. Bradshaw	327,651	Oct. 6	204	51	33	37
Saw-table gage.	H. T. Rawlings	326,454	Sept. 15	1641	429	32	1333
Saw-teeth. Device for inserting and withdrawing removable.	G. F. Simonds	326,683	Sept. 22	1952	512	32	1397
Saw-teeth. Machine for dressing.	H. Fairbrother	313,581	Mar. 10	740	195	30	924
Saw-teeth. Protector for insertible.	A. Krieger	316,419	Apr. 7	602	154	31	108
Saw-teeth. Securing diamonds in	A. H. Lucas	324,945	Aug. 25	2105	575	32	938
Saw-tooth.	J. A. Dean	330,680	Nov. 17	1686	448	33	840
Saw-tooth.	N. Johnson	313,427	Mar. 3	540	142	30	877
Saw-tooth-dressing machine.	C. Loveland	321,617	July 7	224	75	32	54
Saw-tooth. Insertible	A. Adsit	317,698	May 12	1033	268	31	719
Saw-tooth. Insertible	J. E. Emerson	311,301	Jan. 27	1534	417	30	302
Saw-tooth. Insertible	E. T. Lippert	317,666	May 12	977	252	31	708
Saw-tooth. Insertible	N. W. Spaulding	315,253	Apr. 14	1211	316	31	227
Saw-tooth. Insertible	J. C. Trullinger	311,692	Feb. 3	304	83	30	406
Saw-tooth jointer and gage	J. Hug	326,907	Sept. 22	2224	600	33	1456
Saw-tooth swage	G. S. Black	323,628	Aug. 4	326	93	33	523
Saw-tooth swage	J. M. Ryan	319,425	June 2	600	163	31	1102
Saw-tooth-swaging machine.	A. Jacobs	319,263	June 2	398	105	31	1123
Saw-tooth-swaging machine.	J. E. Traverse	331,262	Nov. 24	2458	653 664	33	991
Saw. Trip.	E. P. Hayes	328,486	Oct. 20	1276	331	33	248
Saw with insertible teeth	G. F. Simonds	326,684	Sept. 22	1953	513	33	1397
Saw with insertible teeth	J. Smith	326,798	Sept. 22	2137	556	32	1429
Saws. Adjusting.	R. W. Clarke	323,912	Aug. 11	687	192	33	669
Saws. Device for holding circular.	J. Prickett	332,164	Dec. 8	1365	333	33	1949
Saws. Device for operating vertical reciprocating	C. W. Page	327,303	Sept. 29	2815	734	32	1557
Saws. Device for setting, filing, and jointing circular.	A. Winkler	333,092	Dec. 22	2663	699	33	1494
Saws. Equalizing the tension in circular.	W. H. Presser	316,659	Apr. 28	2209	604	31	436
Saws. Machine for dressing mill.	J. H. McFadden and P. Houser	327,224	Sept. 29	2203	730	32	1555
Saws. Manufacture of	C. T. Shoemaker	324,600	Aug. 18	1619	446	32	840
Saws while being ground. Device for supporting	H. F. Campbell and G. H. Mills	326,397	Sept. 15	1574	409	33	1390
Sawing machine.	W. Lucas	311,501	Feb. 3	56	17	30	359
Sawing machine.	J. W. Poff	311,675	Feb. 3	222	78	30	462
Sawing machine.	W. W. Smith	326,343	Sept. 15	1510	394	32	1309
Sawing machine. Band.	J. V. Rowlett	313,025	Feb. 24	2132	580	30	765
Sawing machine. Circular	J. Connell	321,192	June 30	3036	804	31	1733
Sawing machine. Circular	P. G. De Blane	316,732	Apr. 21	9457	639	31	464
Sawing machine. Circular	W. H. Doane	310,395	June 2	560	152	31	1154
Sawing machine. Circular	W. H. Doane and G. W. Bugbee	311,421	Jan. 27	1703	464	30	333
Sawing machine. Circular	M. Garland and A. D. Catlin	328,771	Oct. 20	1650	433	33	318
Sawing machine. Circular	W. H. Gray	314,667	Mar. 31	2201	524	30	1237
Sawing machine. Circular	G. M. Hinkley	314,379	Mar. 24	1811	462	30	1140
Sawing machine. Circular	L. Houston	315,502	Apr. 14	726	192	31	136
Sawing machine. Circular	J. H. Jones	321,976	July 14	776	202	32	149
Sawing machine. Circular	W. Keller	318,260	May 19	1776	475	31	867
Sawing machine. Circular	E. E. Kidder	315,513	Apr. 14	742	196	31	138
Sawing machine. Circular	D. M. Maxon	328,954	Oct. 27	1917	501	33	371
Sawing machine. Circular	W. Merrill	316,634	Apr. 28	2206	526	31	430
Sawing machine. Circular	J. H. Palm	326,583	Sept. 22	1805	474	32	1311
Sawing machine. Circular	A. Rodgers	322,396	July 14	1324	345	32	251
Sawing machine. Circular	P. B. H. Smith	322,134	July 14	993	258	32	189
Sawing machine. Circular	C. Trier	322,658	July 21	1620	445	32	321
Sawing machine. Portable	E. Beghtel	329,002	Oct. 27	1996	519	33	326
Sawing machine. Rift.	O. S. Holt	331,135	Nov. 24	2265	615	32	958
Sawing machine. Scroll.	A. Ball	310,491	Jan. 6	419	115 116	20	81
Sawing machine. Scroll.	W. F. Barnes	328,377	Oct. 13	1134	293	33	214
Sawing machine. Scroll.	S. S. Davis	310,563	Jan. 13	519	142	30	105
Sawing machine. Scroll.	A. D. Goodell	332,391	Dec. 15	1678	440	37	1312
Sawing machine. Scroll.	H. L. Hopkins	324,242	Aug. 25	1960	541	32	911
Sawing machine. Scroll.	D. W. Perry	322,742	July 21	1202	473	32	313
Sawing machine. Tree and log.	W. E. Hill	329,554	Nov. 3	192	49	33	540
Sawing spouts. Machine for	C. M. Strohbridge and W. Houghton	323,229	July 28	213	660	32	475
Sawing stair-rails. Guide for	S. Burnell	330,845	June 23	2571	660	31	1543
Sawing, tenoning, and boring chair-legs, &c. Machine for	L. Bush, Jr.	332,699	Dec. 22	2128	561 562	33	1396
Scabbard for intrenching-tools	H. C. La Point and C. B. Hopkin	314,256	Mar. 31	2470	633	30	1267
Scaffold	A. C. Halterman	332,893	Dec. 22	2281	620	33	1442
Scaffold and ladder. Combined.	F. W. Niehaus	316,643	Apr. 28	2279	349	31	422
Scaffold-binder	J. A. Moross	326,514	Sept. 15	1716	447	32	1347
Scaffold-bracket	J. H. Ballmann	328,999	Oct. 27	1991	518	33	395
Scaffold-bracket.	C. H. Rockwood	316,573	Apr. 28	2122	577	31	416
Scaffold clamp	T. N. Subers	331,742	Dec. 1	742	189	33	1131
Scaffold-iron	A. H. Campbell	315,720	Apr. 14	1031	271	31	173
Scaffold. Painter's	W. T. Howes	323,152	July 28	2368	628	32	455
Scaffold-support. Adjustable.	J. L. Hughes	319,723	June 9	1021	270	31	1845
Scaffold. Suspended.	J. Worsley	313,465	Mar. 3	528	153	30	927
Scaffold. Window.	C. Hoese	319,714	June 9	1007	266	31	1742
Scaffolding	J. T. Haskell	311,578	Feb. 3	161	46	30	372
Scaffolding, &c. Socket-clamp for	G. W. Zeigler	327,427	Sept. 29	2279	778	32	1285
Scale and flour and bran picker. Combined electrical weighing.	C. W. Roth	321,387	June 30	3277	876	31	1689
Scale and register. Combined weighing.	A. B. Davis	319,199	June 2	319	65	31	1167

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Scale and rule holder.....	C. A. Smith.....	332,956	Dec. 22	2467	653	33	1461
Scale. Automatic grain.....	J. F. Milligan.....	321,129	June 30	2957	783	31	1618
Scale. Automatic weighing.....	H. C. Keeler.....	311,010	Jan. 20	1107	303	30	218
Scale. Automatic weighing.....	M. F. Koch.....	314,854	Mar. 31	2467	652	30	1286
Scale. Automatic weighing.....	P. Morrison.....	311,198	Jan. 27	1382	378	30	275
Scale. Balance weighing.....	W. B. Guild.....	326,975	Sept. 29	2385	624	32	1481
Scale-beam.....	J. W. Palmer.....	322,604	Oct. 20	1699	442	33	325
Scale beam and poise.....	M. H. Wiener.....	312,779	Feb. 24	1800	495	30	707
Scale-beam with indicating poise.....	R. L. Hassell.....	330,397	Nov. 17	1315	349	33	772
Scale. Bent-lever.....	H. S. Davids.....	313,477	Mar. 10	613	159	30	899
Scale. Counter.....	A. Gerdum.....	320,776	June 23	2424	658	31	1526
Scale, envelope-opener, and cigar-cutter. Combined letter.....	A. C. Clausen.....	314,901	Mar. 31	2402	636	30	1275
Scale. Farmer's weighing.....	R. A. Mitchell and J. Von Thurn.....	314,599	Mar. 31	2109	592	30	1230
Scale. Folding platform.....	W. W. Reynolds.....	316,178	Apr. 21	1661	435	31	315
Scale. Graduated.....	H. J. Leighton and J. Coffin.....	325,096	Aug. 25	2305	634	32	974
Scale. Grain.....	A. J. Buie.....	321,481	July 7	98	26	32	20
Scale. Letter.....	T. J. Lums.....	331,892	Dec. 8	822	209	33	1152
Scale. Linear or other.....	C. A. L. Totten.....	331,345	Dec. 1	121	29	33	1020
Scale. Platform.....	H. R. Allen.....	322,146	July 14	1012	263	32	193
Scale. Plotting.....	F. E. Shaw.....	323,218	July 26	2469	656	32	473
Scale. Portable or folding.....	F. Fairbanks.....	326,025	Sept. 8	1067	272	32	1219
Scale. Prescription.....	C. H. Fitch.....	327,152	Sept. 29	2925	683	32	1522
Scale-rack. Portable.....	C. H. Timmeyer and G. W. Bolton.....	329,100	Oct. 27	2141	554	33	410
Scale. Recording weighing.....	E. R. Puffer.....	323,885	Aug. 4	643	182	32	645
Scale. Weighing.....	E. C. Bankwitz.....	331,020	Nov. 24	2109	571	33	930
Scale. Weighing.....	C. Becker.....	313,468	Mar. 10	604	156	30	897
Scale. Weighing.....	H. D. Coffey.....	318,451	May 26	2036	549	31	923
Scale. Weighing.....	M. G. Cook.....	327,530	Oct. 6	35	8	33	8
Scale. Weighing.....	D. Hallock.....	311,745	Feb. 3	368	101	30	418
Scale. Weighing.....	D. Hallock.....	325,534	Sept. 1	430	107	32	1098
Scale. Weighing.....	F. I. Hitchcock.....	322,100	July 14	946	245	32	181
Scale. Weighing.....	M. Kennedy.....	317,947	May 12	1360	366	31	782
Scale. Weighing.....	C. Richtmann.....	312,583	Feb. 17	1545	421	30	652
Scale. Weighing.....	L. G. Spencer and P. F. Hazen.....	323,371	July 28	2690	716	32	512
Scale. Weighing.....	J. H. Stevens.....	319,637	June 9	911	240	31	1224
Scale. Weighing.....	A. Turnbull.....	322,870	July 21	1909	521	32	374
Scale. Weighing.....	W. Watkins.....	326,215	Sept. 22	2164	564	32	1435
Scale. Weighing and price.....	L. B. Gibson.....	330,690	Nov. 17	1621	454	33	843
Scale. Weighing and price.....	J. E. Pirat.....	314,717	Mar. 31	2264	601	30	1248
Scale. Weighing and price.....	E. Sauermlöh.....	331,090	Nov. 24	2300	595	33	947
Scale, weight-tray, and twine-box. Combination.....	J. F. Lawrence.....	329,655	Nov. 3	308	79	33	563
Scales. Indicating poise for lever.....	L. C. Irvine.....	312,857	Feb. 24	1908	523	30	725
Scales, &c. Roller or wheel for platform.....	H. F. Krueger.....	316,981	May 5	67	17	31	535
Scales. Scoop-balance attachment for weighing.....	A. Leas.....	330,595	Nov. 17	1558	417	33	818
Scalper. Centrifugal double.....	J. L. Willford.....	322,668	Oct. 13	980	255	33	186
Scalping-machine.....	W. D. Gray.....	332,250	Dec. 15	1482	387	33	1277
Scarf.....	F. Baldwin.....	324,802	Aug. 25	1916	527	32	901
Scarf-anchor.....	L. H. Wilson.....	333,187	Dec. 29	2799	733	33	1524
Scarf exhibitor. Neck.....	J. H. Boyce.....	329,258	Oct. 27	2366	612	33	433
Scarf exhibitor. Neck.....	M. Krueger.....	321,903	July 7	678	176	32	123
Scarf. Neck.....	D. Schlesinger.....	326,251	Sept. 15	1389	361	32	1225
Scarf, necktie, or cuff holder.....	L. F. Ward.....	312,047	Feb. 10	770	216	30	503
Scarf-pin, &c.....	W. C. Edge.....	316,030	Apr. 21	1446	377	31	275
Scarf ring, band, and collar stud. Combined.....	H. W. Aberlin.....	333,272	Dec. 29	2922	765	33	1547
Scarf-shield.....	G. Solowsky.....	312,519	Feb. 17	1466	401	30	635
Scarf-shield.....	J. B. Sultzor.....	317,532	May 12	1273	339	31	765
Scarf shield and pin. Neck.....	L. Eschner.....	312,102	Feb. 10	867	237	30	518
Scarfs. Retainer for the bands of neck.....	W. B. Clement.....	314,111	Mar. 17	1459	381	30	1065
Scarfs. Retainer for the bands of neck.....	W. E. T. Merrill.....	316,289	Apr. 21	1805	474	31	340
Scenery. Apparatus for holding and shifting stage.....	W. H. Gifford.....	325,927	Sept. 8	936	237	32	1196
School-seat.....	J. M. Sauder.....	331,550	Dec. 1	415	111	33	1073
School seat and desk.....	S. W. Peregrine.....	326,774	Sept. 22	2101	546	32	1422
School seat and settee. Adjustable.....	J. Pedersen.....	321,242	June 30	3096	823	31	1644
Scissors.....	T. Bayrhammer.....	330,277	Nov. 10	1155	306	33	734
Scissors.....	J. T. Willis.....	311,702	Feb. 3	317	87	30	408
Scissors and pencil holder. Combined.....	C. Bramberg.....	318,346	May 19	1902	512	31	889
Scissors and shears.....	D. Wheeler.....	318,530	May 26	2145	578	31	944
Scissors. Making.....	H. T. Russell.....	329,855	Nov. 3	583	149	33	614
Scissors. Manufacture of.....	A. Lloyd and W. F. Glydon.....	315,305	Apr. 7	445	112	31	81
Scissors-sharpener.....	J. W. Hilton.....	323,146	July 28	2302	626	32	454
Scissors-sharpener device.....	T. G. Turner.....	329,512	Nov. 3	118	31	33	528
Scoop. Flour-sifting.....	A. C. Barler.....	318,680	May 26	2345	626	31	979
Scoop. Safe-edge.....	A. R. Hynson.....	330,834	Nov. 17	1866	504	33	877
Scoop. Tile.....	G. C. Taylor.....	333,178	Dec. 29	2780	728	33	1521
Scourer: See Grain-scourer. Wheat-scourer.							
Scourer for knives and forks, metal and glass.....	H. J. Keeler.....	311,249	Jan. 27	1454	397	30	288
Scouring and washing fabrics, &c. Apparatus for.....	A. C. Adam and D. Stewart.....	328,271	Oct. 13	985	256	33	186
Scow. Dumping.....	G. D. Barney.....	322,409	July 21	1346	350	32	262
Scow. Dumping.....	J. Dunn.....	315,918	Apr. 14	1312	341	31	243
Scow. Dumping.....	C. H. Edwards.....	327,870	Oct. 6	470	123	33	83
Scow. Dumping.....	J. Murphy.....	313,679	Mar. 10	866	225	30	948

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Scow. Dumping.	R. R. Osgood	330,043	Nov. 10	837	{ 215 216 }	33	669
Scow. Dumping.	A. Weber	311,698	Feb. 3	310	85	30	407
Scraper	W. Haslup	316,779	Apr. 28	2490	630	31	471
Scraper	W. Haslup	327,794	Oct. 6	376	97	33	66
Scraper	D. H. Sweeney	323,972	Aug. 11	764	214	32	674
Scraper and carrier. Dirt	H. M. Brown	332,872	Dec. 22	2358	623	33	1439
Scraper and elevator. Earth	J. H. and C. Haman	390,553	June 23	2204	{ 522 523 }	31	1472
Scraper and excavator. Road	C. M. Jones	314,135	Mar. 17	1496	390	30	1071
Scraper and leveler. Road	W. S. Worley	370,764	Nov. 17	1783	480	33	861
Scraper attachment for removing calcimine and the like from ceilings.	H. C. Dexter	323,123	July 28	2334	619	32	449
Scraper. Dirt	F. Duay and A. McCall	390,055	June 16	1497	{ 392 393 }	31	1335
Scraper. Earth	W. H. C. Goode	316,455	Apr. 28	2047	537	31	328
Scraper. Earth	W. H. C. Goode	318,721	May 26	2297	630	31	999
Scraper. Foot	P. M. Lutz	327,182	Sept. 29	2667	693	32	1530
Scraper or planer. Road	H. D. Cook	321,153	June 30	3037	604	31	1633
Scraper. Road	M. E. Cook	326,719	Sept. 22	2008	{ 525 526 }	32	1406
Scraper. Road	R. N. Gowell	311,462	Feb. 3	26	8	30	333
Scraper. Road	W. E. Jacobs	314,322	Mar. 24	1816	483	30	1141
Scraper. Road	W. E. Jacobs	325,934	Sept. 8	943	239	32	1197
Scraper. Road	J. A. McKenzie	311,195	Jan. 27	1775	377	30	274
Scraper. Road	J. P. Summers	319,036	June 2	124	34	31	1071
Scraper. Road	A. Woolsey	312,313	Feb. 17	1172	321	30	561
Scraper. Wheel	W. M. Welch	321,557	July 7	208	55	32	41
Scraper. Wheeled	J. Bailey and T. Rebholz	317,279	May 5	475	120	31	610
Scraper. Wheeled	J. Bailey and T. Rebholz	317,280	May 5	476	120	31	610
Scraper. Wheeled	F. W. Hubbard	332,531	Dec. 15	1873	496	33	1344
Scraper. Wheeled	F. W. Hubbard	332,532	Dec. 15	1874	490	33	1344
Scraper. Wheeled	F. W. Hubbard	332,533	Dec. 15	1875	491	33	1345
Scratch-gage	D. S. Conrad	325,505	Sept. 1	389	96	32	1069
Screen							
See Coal-screen.	Paper-pulp screen.						
Door or window screen.	Protecting-screen.						
Fire-screen.	Window-screen.						
Grain-screen.	Window and door screen.						
Screen	J. C. and E. W. Ela	329,893	Nov. 10	639	163	33	632
Screen	T. L. Sturtevant	316,920	Apr. 28	2697	702	31	509
Screen and storm door. Combined	C. Anderson	313,844	Mar. 17	1106	267	30	999
Screen and storm-door. Combined	G. F. Barber	312,949	Feb. 24	2017	551	30	745
Screen for coal, &c	S. T. Varian	313,262	Mar. 3	332	89	30	836
Screen for coal, &c	S. T. Varian	319,149	June 2	263	69	31	1086
Screen for sizing ores and other substances	C. Haywood	319,486	June 9	704	119	31	1187
Screen stretcher. Wire	C. Ebrunfeld	324,673	Aug. 18	1735	478	32	860
Screening apparatus	C. Schlickeveen	316,068	Apr. 21	1508	394	31	288
Screw-blank-heading machine	M. Stannard	323,373	July 28	2694	{ 716 717 }	32	512
Screw-blanks. Machine for nicking	H. A. Harvey and C. S. Clark	314,936	Mar. 31	2587	685	30	1307
Screw-bolt	J. Patten	328,130	Oct. 13	819	214	33	155
Screw-caps. Mold for forming	D. Barker	330,545	Nov. 17	1501	402	33	906
Screw-cutting die	P. H. Claas	315,728	Apr. 14	1040	274	31	195
Screw-cutting die	A. J. Polk	321,755	July 7	467	124	32	57
Screw-cutting die-stock. Adjustable	T. M. Burke	310,230	Apr. 21	1854	490	31	340
Screw-cutting lathe	J. C. Smith	327,334	Sept. 29	2552	744	32	1564
Screw-cutting machine	J. Van Denburgh	310,337	Jan. 6	243	60	30	46
Screw-cutting machine	N. W. Vandegrift	330,174	Nov. 10	1014	265	33	706
Screw-cutting machine	L. Wilkinson	322,875	July 21	1977	{ 523 524 }	32	375
Screw-cutting-machine attachment	F. Müller	311,200	Jan. 27	1384	379	30	255
Screw-cutting-machine attachment	F. Müller. (Reissue)	10,576	Mar. 31	2677	703	30	1320
Screw-cutting mechanism	W. E. McIlhorm	327,950	Oct. 6	580	153	33	106
Screw. Drive	A. Broadnax	320,320	June 16	1885	495	31	1405
Screw-driver	N. W. Farrand	320,920	June 30	2678	711	31	1508
Screw-driver	N. Fellors	327,720	Oct. 6	358	93	33	63
Screw-driver	Z. T. Furbish and F. L. Hamlen	315,137	Apr. 7	196	48	31	36
Screw-driver	G. E. Kolb	324,121	Aug. 11	96	266	32	710
Screw-driver. Self-holding	J. W. Richardson	332,438	Dec. 15	1742	455	33	1322
Screw-driving device	F. M. Maley	320,373	June 16	1565	517	31	1421
Screw-fastening for boxes or cases	E. Ritter	321,054	June 30	2856	760	31	1601
Screw for carpenters' benches. Tail	C. Ungermann	330,643	Nov. 17	1617	435	33	830
Screw for pipe-hangers. Lag	G. W. Blake	317,613	May 12	926	237	31	699
Screw. Gimlet-pointed rolled wood	H. A. Harvey	321,214	June 30	3063	613	31	1638
Screw-head cap. Ornamental	G. B. Hanks	311,122	Jan. 20	1305	340	30	247
Screw-jack	A. R. Tiffany	315,907	Mar. 17	1278	313	30	1631
Screw-machine	J. Alger and J. F. Cook	319,542	June 9	777	207	31	1300
Screw-machine	A. S. Cook	319,564	June 9	805	{ 314 315 }	31	1205
Screw-machine	A. Johnston	316,788	Apr. 28	2504	654	31	473
Screw-machine	E. A. Marsh	329,182	Oct. 27	2250	{ 553 554 }	33	431
Screw-machine feeding device	H. Reynolds	311,785	Feb. 3	430	114	30	427
Screw machine. Metal	J. B. Clyne	333,198	Dec. 29	2213	{ 736 737 }	33	1327
Screw machine. Metal	L. P. Smith	321,059	June 30	2808	{ 702 703 704 }	31	1602
Screw-nail	W. T. McGinnis	327,296	Sept. 29	2806	730	32	1556
Screw or drive hook	W. C. Perkins	316,650	Apr. 28	2250	601	31	434
Screw or vise-jaw attachment. Hand	E. Shaw	351,104	Nov. 24	2309	625	33	966
Screw-plate	B. Elmore	325,790	Sept. 8	775	194	32	1164

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Screw-plate	G. L. Reece	320,693	June 23	2388	631	31	1507
Screw-plate	J. E. Reinacker	318,136	May 19	1619	433	31	838
Screw-pointing machine	H. A. Harvey and C. S. Clark	314,935	Mar. 31	2585	684 685	30	1306
Screw-press	R. E. Boachert	319,184	June 2	302	80, 81	31	1104
Screw-press. Portable	J. P. Parker	318,285	May 19	1806	483	31	873
Screw. Rolled wood	H. A. Harvey	319,247	June 2	378	101	31	1119
Screw-rolling machine	J. Sheldon	315,349	Apr. 7	498	127 128	31	91
Screw. Set	F. A. Reiher	315,839	Apr. 14	1191	310	31	223
Screw-stock	J. Bentley	327,223	Sept. 29	2712	706	32	1540
Screw-sawing machine	H. A. Harvey	329,737	Nov. 3	490	108	33	585
Screw-sawing machine	A. C. Lewis	328,931	Oct. 27	1911	499 500	33	370
Screw-tap	H. W. Bill	310,777	Jan. 13	793	214	30	156
Screw-tap	H. A. Harvey	327,261	Sept. 29	2760	716	32	1547
Screw-tap	H. A. Harvey	327,263	Sept. 29	2762	717	32	1548
Screw-tap	R. C. Nugent	330,909	Nov. 24	2067	565	33	925
Screw-tap	J. C. Steber. (Reissue)	10,646	Sept. 22	2329	619	32	1464
Screw-tap. Expanding	J. M. Johnson	316,040	Apr. 21	1471	383	31	279
Screw-taps. Relieving	J. E. Woodbridge	318,153	May 19	1641	438	31	841
Screw-tapping machine	T. F. Hammer	321,023	June 30	2816	749 750	31	1594
Screw-thread-cutting tool	J. Guedel	326,733	Sept. 22	2048	533	32	1413
Screw-thread gage	A. Shedlock	320,976	June 30	2758	733	31	1583
Screw-thread gage	L. S. Starratt	318,051	May 19	1514	406	31	817
Screw-threads. Cutting	O. Bryant	320,536	June 23	2183	576	31	1468
Screw-threads. Machine for rolling	H. A. Harvey	328,217	Oct. 13	919	930	33	175
Screw-threaded links, bars, or bolts. Construction of	A. H. Emery	328,052	July 14	884	229	32	169
Screw-threading lathe	H. Wohlenberg	319,943	June 9	1331	351	31	1299
Screw-threading machine	E. N. Andrews	316,720	Apr. 28	2408	627	31	456
Screw-threading machine	C. E. Coe	317,303	May 5	508	129	31	616
Screw-threading tap	J. E. Woodbridge	318,071	May 19	1538	412	31	822
Screw. Tubular	F. R. Hunt	324,768	Aug. 18	1858	512	32	884
Screws and bolts. Expansion-fastening for	F. H. Evans	317,448	May 5	712	179	31	652
Screws, bolts, and nuts. Machine for threading	E. P. Baille	311,099	Jan. 20	1236	338 339 340	30	242
Screws. Making rolled wood	H. A. Harvey	329,900	Nov. 10	647	165	33	633
Scrubbing machine	J. F. Cameron	311,810	Feb. 3	449	122	30	433
Scythe	W. Harvey	327,163	Sept. 29	2638	666	32	1524
Scythe-snath fastener	D. T. Chambers	322,682	July 21	1708	453	32	328
Scythe-snath fastening	D. Thompson	328,363	Oct. 13	1110	288	33	210
Sea-bridle	W. W. Averell	310,551	Jan. 13	503	139	30	103
Seal	E. J. Brooks	312,963	Feb. 24	2036	556	30	748
Seal	E. J. Brooks	314,994	Apr. 7	10	3	31	4
Seal	E. J. Brooks	320,904	June 23	2652	704	31	1557
Seal	E. J. Brooks	321,375	June 30	3137	836	31	1652
Seal	E. J. Brooks	323,849	Aug. 4	598	168	32	636
Seal	E. J. Brooks	326,199	Sept. 15	1307	339	32	1271
Seal. Baggage	E. J. Brooks	314,164	Mar. 17	1527	400	30	1077
Seal. Car	P. Wagner	318,060	May 19	1523	408	31	819
Seal for railway-cars, &c.	L. A. Foote	327,783	Oct. 6	361	93	31	64
Seal-lock	E. Bloom	320,213	June 16	1697	451	31	1373
Seal-lock	J. M. Edgar	325,661	Sept. 8	589	150	32	1132
Seal-lock	H. F. Gaine	319,400	June 2	564	153	31	1155
Seal-lock	J. F. Inghram	315,945	Apr. 14	1346	349	31	249
Seal-lock	J. Jordan and O. F. Lagerquist	324,893	Oct. 20	1817	474	33	347
Seal-lock	H. U. La Rue	331,292	Nov. 24	2365	640	33	976
Seal-lock	J. G. Mnatin	325,620	Sept. 1	535	136	32	1117
Seal-lock. Car-door	J. A. Kirby	322,830	July 21	1911	507	32	364
Seal-lock. Car-door	J. A. Kirby	322,831	July 21	1913	508	32	364
Seal-lock for car-doors	J. Forbes	314,009	Mar. 17	1328	346	30	1041
Seal-lock for car-doors	F. H. Meyers	317,403	May 5	639	163	31	639
Seal-lock for railway-cars	P. Hien	324,691	Aug. 18	1762	426	32	865
Seal. Metallic	E. J. Brooks	324,647	Aug. 18	1703	469	32	854
Seal. Metallic	C. L. Pond	329,209	Oct. 27	2298	595	33	439
Seal. Metallic	C. L. Pond	331,439	Dec. 1	264	71	33	1045
Seal. Metallic	C. L. Pond	332,556	Dec. 15	1919	500	33	1351
Seal-press	E. J. Brooks	326,687	Sept. 22	2281	506	32	1454
Seal-press	E. J. Brooks	328,106	Oct. 13	783	204	33	148
Seal-press	W. M. Chase	328,288	Oct. 13	1005	261	33	100
Seal-press. Portable	J. W. Allen	331,601	Dec. 1	536	130	33	1097
Seal-press (Roller)	E. J. Brooks	319,387	June 2	551	150	31	1153
Seal-skin sacque, dolman, and ulster block	P. Weinberg, L. Clark, Jr., and E. Winkler	312,536	Feb. 17	1484	406	30	639
Seal-skin sacque, dolman, and ulster block	P. Weinberg, L. Clark, Jr., and E. Winkler	313,268	Mar. 3	339	83	30	838
Seal. Tin-strip	E. J. Brooks	323,633	Aug. 4	331	95	32	584
Seal-trap for wash-basins and water-closets. Auto-matic	W. D. Schuyler	320,708	June 23	2404	636 637	31	1510
Seals. Implement for applying baggage and car	J. Calder and R. W. Courtney	319,450	June 9	650	175	31	1178
Seals. Machine for making metal	H. K. Harker	327,547	Oct. 6	61	14	33	12
Seals. Machine for making wires for metallic	F. A. Fav	326,223	Sept. 15	1426	371	32	1292
Sealing milk-bottles	J. W. Wilder	311,932	Feb. 10	631	174	30	471
Seam-beating machine	C. W. and W. C. Collyer	324,086	Aug. 11	918	254	32	701
Seam-rubbing machine	C. W. and W. C. Collyer	324,085	Aug. 11	916	254	32	701
Seamed fabric	C. C. Cobleigh	319,453	June 9	654	170	31	1179
Seamer. Roofing	H. M. Miller	325,168	Aug. 25	2316	638	32	977
Seaming and crimping machine. Can	C. L. Hart	324,318	Aug. 11	1247	339	32	762
Seaming irregular-shaped cans. Machine for	W. H. Atkinson	311,622	Feb. 3	929	64, 65	30	392
Seaming-machine	E. Jordan	314,336	Mar. 24	1755	468	30	1129
Seaming-machine. Double	R. W. Maske	327,571	Oct. 6	90	20	33	17
Seaming-machine. Roof double	J. H. Wagenhurst	331,586	Dec. 1	517	125	33	1088

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Seaming machine. Sheet-metal.	C. Hoff	314,448	Mar. 24	1901	508	30	1136
Seaming machine. Sheet-metal.	V. Sharp	324,736	Aug. 18	1812	501	22	576
Seaming tool for roofers, &c. Metal.	P. Vanden Berghe	339,514	Nov. 3	119	31	12	522
Seaming-tool. Tinner's.	P. Vanden Berghe	319,761	June 9	1064	232	31	1233
Seat:							
See Adjustable seat.	Seed-drill seat.						
Bracket-seat.	Spring-seat.						
Car-seat.	Tree-seat.						
Car-spring seat.	Vehicle-seat.						
Reverable seat.	Wagon-seat.						
School-seat.	Window-cleaning seat.						
Seat and desk fastening.	F. L. Sands	332,839	Dec. 22	2298	606	33	1429
Seat and opera-chair.	W. F. Spencer	310,495	Apr. 28	2097	550	31	378
Seat-back.	G. Faulhaber	331,122	Nov. 24	2249	611	33	955
Seat-fastener.	C. C. Fornecrook	317,985	May 19	1420	381	31	801
Seat-fastener.	A. B. Halsted.	320,243	June 16	1736	461	31	1220
Seat-lock.	E. H. Booth	324,643	Aug. 18	1697	468	32	853
Seat. Removable school and church.	S. Roush	311,854	Feb. 3	509	138	30	444
Seats. Support for adjustable and revolving.	L. Postawka	322,005	July 14	817	214	32	137
Secondary batteries. Apparatus for charging and discharging.	W. Stanley, Jr.	313,117	Mar. 3	102	96	30	795
Secondary batteries. Cut-out for.	G. B. Prescott, Jr.	327,964	Oct. 6	594	154	33	107
Secondary battery.	C. S. Bradley	312,802	Feb. 24	1829	502	30	712
Secondary battery.	J. Du Shane	320,232	June 16	1722	457	31	1377
Secondary battery.	E. Jones	331,407	Dec. 1	215	56	33	1036
Secondary battery.	S. Kalischer	311,007	Jan. 20	1103	302	30	218
Secondary battery.	S. Kalischer	311,008	Jan. 20	1105	302	30	218
Secondary battery.	E. T. Reichert	315,339	Apr. 7	487	123	31	89
Secondary battery.	E. T. Reichert	315,340	Apr. 7	489	123	31	89
Secondary battery.	J. S. Sellon	324,597	Aug. 18	1616	445	32	839
Secondary battery.	W. A. Shaw	316,407	Apr. 21	1966	518	31	368
Secondary battery.	W. A. Shaw	316,408	Apr. 21	1970	518	31	368
Secondary battery.	W. A. Shaw	316,409	Apr. 21	1972	518	31	369
Secondary battery.	E. T. and E. E. Starr.	327,341	Sept. 29	2265	747	32	1365
Secondary battery.	J. W. Swan	312,599	Feb. 17	1565	437	30	655
Secondary battery.	J. W. Swan	318,828	May 26	2548	679	31	1014
Secondary battery and transporting the same.	L. H. Rogers	310,724	Jan. 13	723	197	30	143
Secondary battery or electric accumulator.	S. Philippart, Fils	311,445	Jan. 27	1729	471	30	338
Secondary battery or electric accumulator.	E. T. Starr	314,892	Mar. 31	2521	668	30	1296
Secondary battery or electrical accumulator.	J. S. Sellon	321,758	July 7	476	126	32	88
Secondary battery or electrical accumulator.	J. S. Sellon	325,120	Aug. 25	2331	642	32	979
Secondary or storage battery.	E. T. and E. E. Starr	223,390	Aug. 4	652	184	32	646
Seed and fertilizing drill.	A. Miller	316,507	Apr. 28	2527	660	31	477
Seed and grain crusher. Cotton.	J. W. Anthoine.	328,996	Oct. 27	1957	517	33	324
Seed-case.	R. P. Carpenter	323,396	Aug. 4	18	5	32	526
Seed cleaner and huller.	R. B. Huchcraft	322,824	July 21	1903	505	32	362
Seed cleaner. Flax.	T. R. Kosier	324,275	Aug. 11	1189	323	33	751
Seed crusher. Cotton.	T. A. Perry	320,682	June 23	2276	628	31	1504
Seed-distributor.	G. J. McMillan	325,106	Aug. 25	2314	637	32	976
Seed-drill.	J. Hamilton	310,584	Jan. 13	548	151	30	111
Seed-drill.	A. Miller	316,806	Apr. 28	2526	660	31	477
Seed-drill.	J. J. G. H. and F. V. Sweatt	313,250	Mar. 3	320	79	30	834
Seed-drill and cultivator.	J. G. Smith	318,048	May 19	1509	405	31	817
Seed-drill and fertilizer-distributor.	R. Platman	319,021	June 2	108	29	30	1068
Seed-drill and fertilizer-distributor.	J. B. Scarborough.	322,976	July 28	2136	567	33	412
Seed-drill attachment.	J. V. Harter	330,022	Nov. 10	815	208	32	664
Seed-drill gage.	S. F. Barber	324,805	Aug. 25	1919	528	32	902
Seed-drill. Hand.	F. H. Chesebro.	327,234	Sept. 29	2722	766	31	1541
Seed-drill seat.	A. Miller	316,805	Apr. 28	2524	659	31	477
Seed-drill. Spring-hoe.	C. E. Patric	316,387	Apr. 21	1932	510	31	382
Seed huller. Cotton.	C. A. Chandler	317,927	May 12	1334	358	31	771
Seed linter. Cotton.	J. J. Koch and W. P. Greth	321,224	July 7	577	150	32	106
Seed linters and gins. Saw-cylinder for cotton.	F. S. Stron	314,748	Mar. 31	2303	611	30	1256
Seed-press mat.	C. H. Struebig	321,258	June 30	3116	629	31	1647
Seed. Removing fiber from cotton.	F. Montgomery	322,242	July 21	1931	521	32	367
Seed. Removing fiber from cotton.	W. Wall	310,628	Jan. 13	600	151	30	120
Seed separator. Flax.	G. Adams	320,831	June 23	2550	675	31	1320
Seeds from pulp. Machine for separating.	L. Ladd	318,122	May 19	1602	428	31	834
Seeder.	H. Amundson and M. S. Field	321,880	July 7	650	169	32	118
Seeder.	A. Gilmore	315,931	Apr. 14	1336	345	31	946
Seeder.	H. H. Monroe	312,149	Feb. 10	940	256	30	530
Seeder and cart. Combined.	M. J. Halliburton	331,131	Nov. 24	2261	614	33	928
Seeder. Broadcast.	S. Freeman	321,704	July 7	395	105	32	74
Seeder. Hand broadcast.	A. E. Shrock and J. Lehman	315,562	Apr. 14	824	217	31	153
Seeder, roller, and harrow. Combined.	T. Walker and O. G. Barlow	331,588	Dec. 1	519	126	33	1088
Seeders. Drill-tooth regulator and compressor for.	R. P. Ludwig	312,673	Feb. 24	1931	528	30	722
Seeding and drilling machine. Combined.	J. S. Heath	324,321	Aug. 11	1251	340	32	763
Seeding-machine.	W. D. Arnett.	312,791	Feb. 24	1815	498	30	709
Seeding-machine.	W. D. Arnett.	331,753	Dec. 8	768	193	33	1143
Seeding-machine.	L. Eberhart	332,506	Dec. 15	1829	480	33	1338
Seeding-machine.	R. Gosman, Jr.	327,253	Sept. 29	2752	714	32	1546
Seeding-machine.	J. H. Jones	327,950	Oct. 6	575	149	33	103
Seeding-machine.	A. J. Martin and J. C. Baker	315,646	Apr. 14	932	244	31	174
Seeding-machine.	T. T. Miller	322,932	July 28	2094	557	32	404
Seeding-machine.	G. W. Miskimen	312,148	Feb. 10	939	255	30	530
Seeding-machine.	G. W. Miskimen	322,841	July 21	1930	510	32	367
Seeding-machine.	A. G. Myers and J. B. Cottom	313,013	Feb. 24	2113	578	30	769

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Seeding-machine.	J. F. Packer.	323,443	Aug. 4	77	22, 23	32	537
Seeding-machine.	J. F. Packer.	323,444	Aug. 4	80	23	32	537
Seeding-machine.	C. E. Patric.	331,157	Nov. 24	2300	623	33	964
Seeding-machine.	D. S. Troy and J. S. Davis.	319,432	June 2	617	167	31	1166
Seeding-machine.	D. S. Troy and J. S. Davis.	331,263	Nov. 24	2461	664	33	992
Seeding-machine boot.	J. F. Keller. (Reissue)	10,649	Oct. 6	616	161	33	112
Seeding-machine. Broadcast.	S. B. Hart.	323,328	July 28	2628	699	32	501
Seeding-machine. Broadcast.	S. S. Speicher.	316,198	Apr. 21	1685	442	31	319
Seeding-machine. Force-feed.	C. E. Patric.	324,722	Aug. 18	1795	495	32	872
Seeding-machine. Force-feed.	J. L. Ritter.	310,228	Jan. 6	84	22	30	18
Seeding-machine. Force-feed.	J. L. Ritter.	315,108	Apr. 7	250	61	31	46
Seeding-machine. Force-feed.	J. L. Ritter.	317,204	May 5	380	95	31	592
Seeding-machine spring-hoe attachment.	T. D. Galloway.	313,719	Mar. 10	918	229	30	958
Seeding-machine. Device for raising or lowering the boots or drills of.	A. Miller.	316,808	Apr. 28	2529	661	31	478
Seeding-machines. Distributing mechanism for.	C. L. Smith.	325,125	Aug. 25	2340	641	32	981
Seeding-machines. Spring-hoe for.	J. B. Cotton.	312,974	Feb. 24	2050	569	30	751
Seine.	S. B. Sabens.	311,377	Jan. 27	1642	449	30	322
Self-acting gate.	A. Halstenbach.	333,409	Dec. 29	3099	808	33	1577
Self-leveling table for ships.	C. E. Diggs and W. L. Meesick.	317,748	May 12	1096	287	31	731
Self-opening can.	J. C. Britton.	321,948	July 14	745	195	32	144
Self-waiting table and desk. Combined.	R. A. Payne.	314,713	Mar. 31	2258	600	30	1247
Selling-machine. Mechanical automatic.	D. W. Shiek.	329,225	Oct. 27	2318	600	33	444
Semaphore.	S. H. Harrington.	317,347	May 5	570	146	31	627
Separating light and heavy substances. Machine for.	H. Seck.	316,190	Apr. 21	1677	440	31	318
Separating-machine.	T. W. B. Mumford and R. Moodie.	321,379	June 30	3267	873	31	1678
Separating-machine.	P. Van Gelder.	314,497	Mar. 24	1976	526	30	1170
Separating or concentrating materials of different specific gravities. Apparatus for.	A. E. and W. L. Crow.	312,333	Feb. 17	1198	328	30	586
Separator.							
See Centrifugal separator.	Mineral-separator.						
	Ore-separator.						
Cockle-separator.	Pneumatic separator.						
Cockle-seed separator.	Seed-separator.						
	Steam-separator.						
Grain-separator.	Thread-separator.						
Gravity-separator.	Wheat, oats, and cockle separator.						
Magnetic separator.							
Separator.	D. Car-Skaden.	329,964	Nov. 10	731	187	33	648
Separator.	L. Stewart.	327,735	Oct. 6	307	79	33	54
Separator.	A. N. Wolf.	326,077	Sept. 8	1144	291	32	1233
Separator-leveling attachment.	J. H. and J. Burgess, Jr.	318,965	May 26	2605	691	31	1024
Service and valve shut-off box. Extension.	W. A. Burrows.	321,453	July 7	102	27	32	21
Settee, crib, and cradle. Folding.	A. M. Freeman.	325,794	Sept. 8	778	185	32	1165
Settee. Folding-seat.	H. J. Harwood.	315,618	Apr. 14	699	236	31	167
Settee or bench. Folding.	J. A. Taylor and J. F. Knapp.	324,431	Aug. 18	1404	382	32	799
Sewage. Apparatus for collecting and drying the sedimentary matter of.	R. Corscaden.	315,912	Apr. 14	1304	339	31	242
Sewage. Apparatus for collecting and drying sedimentary matter of.	R. Corscaden.	331,943	Dec. 8	1037	340	33	1193
Sewage, &c. Apparatus for the intermittent discharge of.	G. S. Pierson.	316,567	Apr. 28	2181	574	31	414
Sewage. Apparatus for the treatment of.	S. K. Page, C. E. Robinson, and W. Stevens.	328,334	Oct. 13	1069	277	33	203
Sewer.	J. H. Clark.	322,820	Sept. 8	819	205	32	1172
Sewer-cleaner.	W. Jenks.	312,206	Feb. 10	1023	290	30	545
Sewer-cleaning apparatus.	H. C. Lowrie.	317,156	May 5	306	78	31	579
Sewer-connection for water-closets.	S. G. McFarland.	310,998	Jan. 6	184	51	30	36
Sewer-gas check for sinks.	J. Neale.	322,961	July 28	2198	561	32	407
Sewer-gas cut-off for basins.	F. G. Johnson.	321,974	July 14	774	202	32	149
Sewer-gas excluder.	L. N. Jackson.	321,504	July 7	126	33	32	25
Sewer-gas trap.	R. H. Beckwith.	316,110	Apr. 21	1573	409	31	298
Sewer-gas trap.	W. G. Thompson.	330,529	Nov. 17	1484	397	33	693
Sewer-gas valve.	F. G. Johnson.	321,973	July 14	773	201	32	149
Sewer-gutter.	G. W. Rader.	313,620	Mar. 10	795	208	30	934
Sewer-pipe presses. Socket-mold for.	O. Barber.	320,325	June 16	1881	494	31	1404
Sewer-pipe valve. Automatic.	T. L. McKeen.	325,553	Sept. 1	455	113	32	1102
Sewer-pipe. Ventilated.	M. J. Coholan.	318,462	May 26	2038	550	31	924
Sewer-scraper. Self-adjusting.	M. Fitzsimons.	329,034	Oct. 27	2649	531	33	395
Sewer-trap.	B. P. Bower.	324,645	Aug. 18	1701	469	32	854
Sewer-trap.	J. Demarest.	317,099	May 5	922	56	31	564
Sewer-trap.	L. Fall.	320,918	June 30	2676	711	31	1568
Sewer-trap and cesspool.	H. G. Badgley.	325,231	Sept. 1	9	1	32	1015
Sewers. Device for flushing.	A. T. Elford.	322,333	Dec. 15	1591	417	33	1297
Sewers. Structure for submarine.	H. Case.	320,544	Sept. 22	1756	459	32	1393
Sewers, water-pipes, &c. Apparatus for flushing.	J. Scott.	317,025	May 5	124	39	31	545
Sewing.	A. A. Cuming.	313,063	Mar. 3	36	9	30	785
Sewing and other machines. Belt-applying device for.	E. T. Thomas and A. Schenck.	324,432	Aug. 18	1404	383	32	799
Sewing and trimming fabrics. Mechanism for.	E. S. Cram and E. C. Covell.	317,930	May 12	1339	359	31	778
Sewing. Book.	D. M. Smyth.	314,737	Mar. 31	2229	606	30	1253
Sewing books, pamphlets, &c. Device for.	M. J. Baker.	329,254	Oct. 27	2358	610	33	451
Sewing-chair.	C. G. Little.	322,547	July 21	1532	404	32	295
Sewing-hat-tips. Machine for.	E. J. Swartout.	316,414	Apr. 21	1980	521	31	370
Sewing in a spiral or helical path. Machine for.	B. Binns.	331,607	Dec. 1	544	133	33	1093
Sewing linings or sweat-bands into hat-bodies. Mechanism for.	J. A. Locke.	312,280	Feb. 17	1134	311	30	574
Sewing looped fabrics. Machine for.	J. M. Morrow.	330,606	Nov. 17	1573	421	33	821
Sewing-machine.	A. Abell.	319,435	June 9	631	171	31	1175
Sewing-machine.	H. P. Aldrich.	332,317	Dec. 15	1571	413	33	1293

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette	
				Spec.	De't.	Vol.	Page.
Sewing-machine.....	S. Arnold.....	331,106	Nov. 24	2216	600 601 602	33	930
Sewing-machine.....	S. Arnold.....	331,107	Nov. 24	2223	603	33	931
Sewing-machine.....	A. M. Barber.....	330,195	Nov. 10	1040	271	33	711
Sewing-machine.....	W. F. Beardslee.....	311,943	Feb. 10	644	177	30	476
Sewing-machine.....	J. Bigelow.....	331,026	Nov. 24	2116	573	33	931
Sewing-machine.....	J. Bigelow.....	331,027	Nov. 24	2118	573	33	932
Sewing-machine.....	A. Boecher.....	322,245	July 14	1129	294	32	215
Sewing-machine.....	T. W. Bracher and T. Webb.....	324,217	Aug. 11	1114	301 302	32	737
Sewing-machine.....	H. Charnbury.....	316,745	Apr. 28	2448	637 638	31	462
Sewing-machine.....	E. S. Cram.....	315,914	Apr. 14	1308	340	31	943
Sewing-machine.....	E. S. Cram and E. C. Covell.....	315,742	Apr. 14	1065	279	31	300
Sewing-machine.....	E. S. Cram and E. C. Covell.....	315,915	Apr. 14	1309	341	31	943
Sewing-machine.....	E. S. Cram and E. C. Covell.....	328,273	Oct. 13	1011	263	33	101
Sewing-machine.....	A. A. Cuming.....	333,201	Dec. 29	2819	738	33	128
Sewing-machine.....	G. H. W. Curtis.....	318,964	June 2	46	12	31	107
Sewing-machine.....	C. M. Dewey.....	326,724	Sept. 22	2038	530	32	1411
Sewing-machine.....	G. H. Dimond.....	317,749	May 19	1096	288	31	771
Sewing-machine.....	A. Faulkner.....	322,533	July 21	1517	400	32	292
Sewing-machine.....	A. A. Fisher and A. Hart.....	316,350	Apr. 21	1879	497 498	31	333
Sewing-machine.....	R. H. Hawkins.....	316,263	Apr. 21	1768	465	31	334
Sewing-machine.....	R. H. Hawthorne.....	312,467	Feb. 17	1379	381	30	621
Sewing-machine.....	A. J. Hurtt.....	315,037	Apr. 7	71	17	31	14
Sewing-machine.....	J. Kayser.....	312,662	Feb. 24	1914	585	30	728
Sewing-machine.....	T. Lamb.....	327,800	Oct. 6	387	100	33	6
Sewing-machine.....	C. Lenz.....	320,666	June 23	2355	622	31	1500
Sewing-machine.....	C. A. Muegge.....	332,207	Dec. 8	1421	368 367	33	1259
Sewing-machine.....	S. O'Connor.....	331,997	Dec. 8	1110	289	33	1906
Sewing-machine.....	A. D. Pentz.....	330,419	Nov. 17	1342	357 358	33	776
Sewing-machine.....	W. A. Polmateer.....	329,424	Nov. 3	80	22	33	529
Sewing-machine.....	J. W. Post.....	310,612	Jan. 13	579	180	30	117
Sewing-machine.....	J. W. Post.....	312,509	Feb. 17	1453	398	30	634
Sewing-machine.....	J. W. Post.....	315,067	Apr. 7	113	26	31	22
Sewing-machine.....	J. W. Post.....	320,394	June 16	1990	523 524	31	1425
Sewing-machine.....	O. L. Schastey.....	322,816	Oct. 20	1714	446	33	938
Sewing-machine.....	W. J. Stewart.....	323,968	Aug. 11	758	212	32	673
Sewing-machine.....	W. J. Stewart.....	330,272	Nov. 10	1133	301 302	33	730
Sewing-machine.....	A. A. Sturtevant.....	326,067	Sept. 8	1128	287	32	1231
Sewing-machine.....	E. T. Thomas.....	310,477	Jan. 6	398	110	30	77
Sewing-machine.....	J. Thomas.....	327,352	Sept. 29	2284	753 754	32	1566
Sewing-machine.....	C. E. Tibbles.....	328,534	Oct. 20	1339	348	33	229
Sewing-machine.....	C. E. Tibbles.....	328,535	Oct. 20	1340	348 349	33	260
Sewing-machine.....	R. D. Tucker.....	320,898	June 23	2643	701	31	1555
Sewing-machine.....	J. W. Tuttle.....	332,683	Dec. 15	2092	550	33	1247
Sewing-machine.....	W. P. Valentine.....	322,069	Oct. 13	762	198	33	144
Sewing-machine.....	W. Walker.....	320,099	June 16	1545	409	31	1246
Sewing-machine.....	S. W. Wardwell, Jr.....	322,571	July 21	1576	415	32	301
Sewing-machine.....	A. Watkins.....	313,970	Mar. 17	1281	334	30	1032
Sewing-machine.....	N. Wheeler and W. F. Dial.....	328,165	Oct. 13	854	222 223	33	162
Sewing-machine.....	J. E. White.....	319,766	June 9	1070	284 285	31	1254
Sewing-machine.....	R. Whitehill.....	326,821	Sept. 22	2174	566 567	32	1435
Sewing-machine.....	R. Whitehill.....	326,822	Sept. 22	2176	567	32	1435
Sewing-machine.....	J. C. Wood.....	320,033	June 16	1457	383	31	1330
Sewing-machine.....	E. Woodward and T. K. Keith.....	316,927	Apr. 28	2705	704 705	31	510
Sewing-machine attachment.....	G. L. Gray.....	315,935	Apr. 14	1331	346	31	947
Sewing-machine attachment.....	C. S. Knowles.....	314,690	Mar. 31	2224	591	30	1241
Sewing-machine attachment for placing and ejecting bobbins.....	C. Miehling.....	310,954	Jan. 20	1030	279	30	203
Sewing-machine attachment for placing and ejecting bobbins.....	C. and C. Miehling.....	310,955	Jan. 20	1031	279	30	203
Sewing-machine attachment for sewing welts.....	P. Brigham.....	320,043	June 16	1468	387	31	1332
Sewing-machine attachment for stitching buttons to fabrics.....	A. De Beaumont.....	328,298	Oct. 13	1017	264	33	183
Sewing-machine attachment for unwinding thread from spools.....	G. White.....	331,855	Dec. 8	906	234	33	1168
Sewing-machine attachment holder.....	J. M. Griest.....	319,705	June 9	990	262	31	1229
Sewing-machine attachments. Attachment-holder or means for securing.....	A. Johnston.....	321,817	July 7	561	147	32	104
Sewing-machine attachments. Box or case for.....	A. Johnston.....	315,039	Apr. 7	73	17	31	15
Sewing-machine attachments. Combined presser-foot and clamp for holding.....	F. L. Goodrich.....	324,247	Aug. 11	1148	313	32	744
Sewing-machine binder.....	J. F. J. Gunning.....	316,359	Apr. 21	1891	500	31	335
Sewing-machine binding attachment.....	R. Hignier.....	310,822	Jan. 13	846	239	30	166
Sewing-machine binding attachment.....	C. Rutz.....	311,376	Jan. 27	1639	449	30	322
Sewing-machine bobbin.....	W. W. Ford.....	331,956	Dec. 8	1054	274	33	1196
Sewing-machine bobbin-winder.....	J. H. Palmer.....	312,501	Feb. 17	1440	395	30	631
Sewing-machine bobbin-winding attachment.....	C. Hoach.....	311,928	Feb. 10	720	197	30	49
Sewing-machine bobbin-winding attachment.....	A. T. Moisson.....	311,598	Feb. 3	188	54	30	284
Sewing-machine. Book.....	E. Cheshire.....	317,506	May 12	787	201 202	31	674

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Sewing machine. Book.....	E. and E. Cheshire	317,507	May 12	791	{ 202 203 631 622	31	674
Sewing-machine. Boot and shoe.....	A. Eppler, Jr.	325,063	Aug. 25	2263	{ 631 622	32	966
Sewing-machine braiding attachment	W. R. Clark	319,069	June 2	169	45	31	1079
Sewing-machine. Button-hole	P. Diehl	322,428	July 21	1370	{ 357 358	32	266
Sewing-machine. Button-hole	J. S. Freese	314,444	Mar. 24	1897	{ 507 126 127	30	1157
Sewing-machine. Button-hole	J. S. Freese	325,599	Sept. 1	508	{ 126 127	32	1112
Sewing-machine. Button-hole	D. Mills	313,358	Mar. 3	451	115	30	860
Sewing-machine. Button-hole	D. Mills	313,438	Mar. 3	563	{ 145 723 724 725	30	881
Sewing-machine. Button-hole	F. W. Ostrom	320,957	June 30	2723	{ 724 725	31	1576
Sewing-machine. Button-hole	W. E. Trull	320,448	June 16	2063	{ 542 338 339	31	1438
Sewing-machine. Button-hole	J. L. Walsh	332,122	Dec. 8	1304	{ 338 339	33	1239
Sewing-machine button-hole attachment	S. J. Baird	320,528	June 23	2172	573	31	1465
Sewing-machine button-hole attachment	C. S. Baldorf	313,046	Mar. 3	e	3	30	780
Sewing-machine button-hole attachment	F. Egge and C. J. A. Sjöberg	322,811	July 21	1879	498	32	357
Sewing-machine button-hole attachment	W. H. Gilbert	332,511	Dec. 15	1837	492	33	1339
Sewing-machine button-hole attachment	J. M. Griest	332,251	Dec. 15	1483	388	33	1277
Sewing-machine button-hole attachment	J. K. Harris	318,470	May 26	2057	556	31	928
Sewing-machine button-hole attachment	T. S. Huntington	327,169	Sept. 29	2643	688	32	1526
Sewing-machine button-hole attachment	J. H. Palmer	324,150	Aug. 11	1001	275	32	716
Sewing-machine button-hole attachment	J. H. Palmer	332,426	Dec. 15	1726	{ 452 547	33	1319
Sewing-machine button-hole attachment	E. S. Pratt	332,676	Dec. 15	2084	{ 548 961	33	1382
Sewing-machine button-hole attachment	G. Rehfuas	310,911	Jan. 20	961	262	30	192
Sewing-machine button-hole attachment	G. Rehfuas	314,055	Mar. 17	1382	361	30	1051
Sewing-machine button-hole attachment	W. Schott	310,915	Jan. 20	967	{ 263 264	30	193
Sewing-machine button-hole attachment	F. W. Smith, Jr., and S. S. William-son	316,410	Apr. 21	1974	519	31	369
Sewing-machine button-hole-cutting attachment	E. B. Moore	314,046	Mar. 17	1373	358	30	1050
Sewing-machine button-hole-cutting attachment	J. D. Ulmer	330,943	Nov. 24	2018	545	33	913
Sewing-machine cabinet	A. E. Gerald	322,279	July 14	1167	306	32	222
Sewing-machine cabinet	W. H. Hiteshew	325,081	Aug. 25	2287	629	32	971
Sewing-machine clamp. Button-hole	R. C. Bryden	319,880	June 9	1943	328	31	1283
Sewing-machine clamp. Button-hole	J. G. Greene	319,700	June 9	983	260	31	1238
Sewing-machine-cover fastener	J. Kiteon	323,342	July 28	2646	704	32	504
Sewing-machine cutting attachment. Button-hole	F. E. Schmidt	332,950	Dec. 23	2458	{ 650 651	33	1477
Sewing-machine darning attachment	F. W. Stewart	312,923	Feb. 24	1985	542	30	739
Sewing-machine driving mechanism	C. G. Spengler	330,522	Nov. 17	1476	395	33	802
Sewing-machine embroidering attachment	F. H. Chilton	317,509	May 12	794	203	31	675
Sewing-machine embroidering attachment	F. H. Chilton	318,449	May 26	2032	548	31	923
Sewing-machine embroidering attachment	F. H. Chilton	320,758	June 23	2463	653	31	1523
Sewing-machine embroidering attachment	F. H. Chilton	322,902	July 28	2022	534	32	390
Sewing-machine embroidering attachment	F. H. Chilton	325,499	Sept. 1	377	92	32	1087
Sewing-machine embroidering attachment	F. H. Chilton	330,678	Nov. 17	1663	448	33	840
Sewing-machine embroidering attachment	J. M. Griest	319,701	June 9	985	261	31	1238
Sewing-machine embroidering attachment	J. P. Lavigne	318,755	May 26	2443	655	31	997
Sewing-machine embroidering attachment	J. P. Lavigne	324,124	Aug. 11	971	267	32	711
Sewing-machine embroidery attachment	A. W. Johnson and J. P. Lavigne	320,564	Nov. 3	194	52	33	542
Sewing-machine feed device	J. J. Wheat	328,182	Oct. 13	851	221	33	161
Sewing-machine feed mechanism	R. W. Whitney	317,255	May 5	445	111	31	604
Sewing-machine feed-motion	C. E. Tibbles	328,538	Oct. 20	1343	350	33	260
Sewing-machine feed-motion	C. E. Tibbles	328,542	Oct. 20	1347	{ 351 352	33	261
Sewing-machine feeding device	E. McDonald	313,945	Mar. 17	1253	327	30	1026
Sewing-machine feeding mechanism	S. Arnold	331,108	Nov. 24	2226	604	33	951
Sewing-machine feeding mechanism	A. C. Campbell	331,123	Nov. 24	2335	632	33	971
Sewing-machine feeding mechanism	J. W. Corey	325,396	Sept. 1	247	62	32	1062
Sewing-machine feeding mechanism	P. Diehl	319,800	June 9	1127	{ 298 299	31	1283
Sewing-machine feeding mechanism	P. Diehl	330,385	Nov. 17	1297	344	33	768
Sewing-machine feeding mechanism	M. Marcl	331,205	Nov. 24	2368	641	33	977
Sewing-machine feeding mechanism	N. Wheeler and W. F. Dial	331,174	Nov. 24	2322	629	33	969
Sewing-machine feeding mechanism. Button-hole	P. Diehl	319,801	June 9	1128	299	31	1264
Sewing-machine fold-guide	J. W. Dewees	319,394	June 2	558	152	31	1154
Sewing-machine for connecting soles and uppers of turned shoes	P. A. and J. Conpal	332,642	Dec. 15	2029	{ 532 533	33	1373
Sewing-machine for flossing	J. A. House and C. H. Dimond	317,362	May 5	586	151	31	631
Sewing-machine for stitching button-holes, eyelet-holes, &c.	J. P. Hallenbeck and H. L. Phelps	310,677	Jan. 13	661	{ 181 182	30	132
Sewing-machine gage	H. Hitchcock	332,526	Dec. 15	1868	489	33	1343
Sewing-machine gage. Straw-braid	M. Marcl	331,205	Nov. 24	2370	642	33	977
Sewing-machine guide	J. Fitting	319,690	June 9	966	256	31	1236
Sewing-machine guide	S. S. Spear	314,270	Mar. 24	1667	444	30	1112
Sewing-machine guide-setter	C. T. Freeman	312,196	Feb. 10	1008	275	30	542
Sewing-machine. Hand	R. W. Whitney	326,365	Sept. 15	1542	400	32	1314
Sewing-machine hand-motor	C. W. Taylor	327,349	Sept. 29	2881	752	32	1568
Sewing-machine hand-motor	J. F. White	317,057	May 5	164	41	31	553
Sewing-machine hemmer and lace-guide combined	W. R. Clark	332,700	Dec. 22	2130	562	33	1397
Sewing-machine hemstitching attachment	W. R. Parsons	311,673	Feb. 3	279	77	30	401
Sewing-machine. Lock-stitch	W. Barsby	313,705	Mar. 10	900	{ 234 235	30	954
Sewing-machine motor	M. Y. Thompson	318,850	Apr. 28	2504	678	31	490
Sewing-machine motor	J. T. Winburn	331,666	Dec. 1	634	156	33	1109
Sewing-machine needle-guard	S. W. Wardwell, Jr.	321,065	June 30	2679	766	31	1605
Sewing-machine needle-threader	S. R. Wilson	321,469	July 7	86	23	32	18
Sewing-machine oil-drip pan	W. Connolly	322,522	July 21	1507	396	32	290

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Sewing-machine or other motor	C. W. and W. C. Collyer	322,423	July 21	1363	356	32	265
Sewing-machine pitman	D. L. Keeler	314,249	Mar. 24	1634	432	30	1106
Sewing-machine pitman attachment	P. S. Roy	318,207	May 19	1709	457	31	635
Sewing-machine plaiting and ruffling attachment	R. M. Cox	316,247	Apr. 21	1740	460	31	331
Sewing-machine presser-foot to their bars. Device for fastening	L. J. Trussell	311,795	Feb. 3	432	117	30	429
Sewing-machine presser-foot. Vertically-reciprocating	J. C. Goodwin	313,933	Mar. 17	1239	322	30	1023
Sewing-machine presser-foot	J. M. Griest	319,702	June 9	987	281	31	1239
Sewing-machine presser-foot	H. P. Lancaster	321,304	June 30	3170	845	31	1659
Sewing-machine presser-foot device	J. J. Wheat	328,163	Oct. 13	852	222	33	161
Sewing-machine presser-foot lifter	M. Marcell	331,306	Nov. 24	2370	642	33	977
Sewing-machine quilting attachment	H. T. Davis	321,009	June 30	2798	744	31	1591
Sewing-machine quilting attachment	D. R. Fraley	321,287	June 30	3151	840	31	1655
Sewing-machine quilting-frame	H. T. Davis	322,262	July 14	1148	300	32	218
Sewing-machine quilting-frame	H. T. Davis	328,923	Oct. 27	1871	488	33	363
Sewing-machine quilting-frame	E. H. Taliaferro	327,118	Sept. 29	2575	671	32	1514
Sewing-machine quilting-support	J. A. Coppock	323,118	July 28	2328	617	32	447
Sewing-machine right and left corder	W. R. Somers	322,074	July 14	913	237	32	174
Sewing-machine ruffler	J. M. Griest	311,119	Jan. 20	1962	346	30	247
Sewing-machine ruffler	M. G. Turner	312,306	Feb. 17	1166	319	30	589
Sewing-machine ruffling and gathering attachment	A. Johnston	313,428	Mar. 3	541	142	30	878
Sewing-machine ruffling attachment	H. C. Goodrich	329,548	Nov. 3	173	45, 46	33	538
Sewing-machine ruffling attachment	J. M. Griest	319,707	June 9	993	282	31	1240
Sewing-machine ruffling attachment	A. W. Johnson	331,793	Dec. 8	819	207	33	1151
Sewing-machine ruffling attachment	O. A. Reynolds	310,465	Jan. 6	383	108 107 317 318	30	74
Sewing-machine ruffling or gathering attachment	A. Johnston	324,261	Aug. 11	1166	317 318	32	747
Sewing-machine ruffling or gathering attachment	W. Rundquist	328,904	Oct. 20	1833	478	33	350
Sewing-machine shuttle	J. H. Anthony	315,850	Apr. 14	1254	327	31	224
Sewing-machine shuttle	P. Diehl	330,386	Nov. 17	1289	344	33	769
Sewing-machine shuttle	J. and W. L. Heberling	311,490	Feb. 3	38	11	30	354
Sewing-machine shuttle	J. and W. L. Heberling	311,491	Feb. 3	40	11	30	354
Sewing-machine shuttle	J. Keith	323,381	July 14	1304	310	32	248
Sewing-machine shuttle	S. Larkin	323,345	July 28	2652	706	32	505
Sewing-machine shuttle	V. J. Mayo	331,314	Dec. 1	77	19	33	1013
Sewing-machine shuttle	J. H. Osborn	321,381	June 30	3270	874	31	1678
Sewing-machine shuttle	C. Parton	323,068	July 28	2266	599	32	435
Sewing-machine shuttle	C. E. Tibbles	328,537	Oct. 20	1342	349	33	280
Sewing-machine shuttle	I. J. Tuttle	310,060	Apr. 21	1525	388	31	289
Sewing-machine shuttle and shuttle-holder	S. Arnold	324,351	Aug. 18	1293	351 352	32	779
Sewing-machine shuttle-bobbin	D. W. Corey	323,916	Aug. 11	690	193	32	660
Sewing-machine shuttle-carrier	C. E. Tibbles	328,539	Oct. 20	1344	350 351	33	269
Sewing-machine shuttle-operating mechanism	P. Diehl	330,384	Nov. 17	1296	344	33	768
Sewing-machine shuttle-alide	H. Reiss	319,649	June 9	1195	316	31	1275
Sewing-machine shuttle supporting and operating mechanism	I. J. Tuttle	316,081	Apr. 21	1528	398 399	31	289
Sewing-machine. Sole	Z. T. French	317,758	May 12	1108	291	31	733
Sewing-machine. Sole	Z. T. French	317,759	May 12	1109	292	31	734
Sewing-machine spool-holder	J. C. Roth	311,532	Feb. 3	90	29	30	362
Sewing-machine stand	T. L. Melone	310,455	Jan. 6	373	103 104	30	73
Sewing-machine stop mechanism. Button-hole	E. D. Ludlow	329,753	Nov. 3	441	112	33	288
Sewing-machine. Straw-hat	E. V. Mitchell and M. G. Plimpton	317,836	May 12	1217	322	31	724
Sewing-machine supporting and guiding attachment	J. Thomas	330,170	Nov. 10	1009	264	33	704
Sewing-machine table	W. M. Cuthbert	324,753	Aug. 18	1838	507	32	829
Sewing-machine table	L. T. Jones	310,438	Jan. 6	355	97	30	69
Sewing-machine table	D. Porter	323,529	Aug. 4	192	56	32	554
Sewing-machine table-cover	G. A. Annett	313,908	Mar. 17	1191	310	30	1015
Sewing-machine table-top	N. A. Hull	328,294	Sept. 15	1446	377	32	1297
Sewing-machine take-up device	A. Becker	323,099	Aug. 11	797	222	32	699
Sewing-machine take-up mechanism	D. F. Ranney	327,410	Sept. 29	2960	773	32	1523
Sewing-machine take-up mechanism	C. E. Tibbles	328,536	Oct. 20	1342	349	33	269
Sewing-machine take-up mechanism	C. E. Tibbles	328,541	Oct. 20	1347	351	33	261
Sewing-machine take-up mechanism	J. E. Wiggin	326,533	Sept. 15	1743	455	32	1233
Sewing-machine tension	G. H. Dimond	324,755	Aug. 18	1842	507	32	861
Sewing-machine tension attachment	R. Rosier	332,753	Dec. 22	2199	530	33	1410
Sewing-machine tension. Automatic	R. W. Whitney	314,635	Mar. 31	2163	574	30	1200
Sewing-machine tension device	S. P. Brown	310,448	June 9	648	175	31	1179
Sewing-machine tension device	J. C. Goodwin	324,249	Aug. 11	1150	313	32	744
Sewing-machine tension device	D. L. Keeler	328,668	Oct. 20	1561	406	33	298
Sewing-machine tension device	E. Murphy	324,579	Aug. 18	1593	439	32	835
Sewing-machine tension device	A. D. Pontz	319,744	June 9	1043	276	31	1249
Sewing-machine tension device	J. W. Post	317,193	May 5	965	01	31	680
Sewing-machine tension-release	J. C. Goodwin	324,250	Aug. 11	1151	314	32	744
Sewing-machine tension-spring	C. E. Tibbles	328,540	Oct. 20	1346	351	33	261
Sewing-machine thread-case	A. Dewhurst	324,240	Aug. 11	1138	309	32	742
Sewing-machine thread-controlling device	E. Murphy	315,956	Apr. 14	1363	323	33	223
Sewing-machine thread-controlling device	E. Murphy	324,580	Aug. 18	1594	439	32	835
Sewing-machine thread holder and cutter	D. F. Spees	332,759	Dec. 23	2204	512	33	78
Sewing-machine thread-regulating device	S. W. Wardwell, Jr.	310,462	Jan. 6	405	119	30	96
Sewing-machine thread-releaser	C. E. Devine	327,925	Oct. 6	545	148	31	1037
Sewing-machine thread-unwinder	A. B. Morse	318,923	May 28	2671	708	33	1279
Sewing-machine thread waxing and heating device	B. F. Landis	332,259	Dec. 15	1496	394	33	1329
Sewing-machine throat-plate attachment	J. M. Griest	319,703	June 9	988	261	30	1276
Sewing-machine treadle	F. L. E. Conliver	314,606	Mar. 31	2408	637	33	1544
Sewing-machine treadle	S. A. Shepherd	333,262	Dec. 29	2908	720	30	415
Sewing-machine trimmer	H. H. Fefel	311,734	Feb. 3	354	97, 98	30	536
Sewing-machine trimmer	T. K. Ober	323,439	Aug. 4	71	19	30	979
Sewing-machine trimming attachment	J. Bigelow	313,602	Mar. 10	1040	267	30	904
Sewing-machine trimming attachment	W. S. Clark and J. F. Murphy	324,813	Aug. 25	1930	531	33	904

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Sewing-machine trimming attachment	F. B. Dillingham	322,355	July 14	1268	371	32	241
Sewing-machine trimming attachment	C. F. Harlow and E. E. Angell	319,245	June 2	377	101	31	1119
Sewing-machine trimming attachment	T. S. Parker	314,710	Mar. 31	2251	599	30	1247
Sewing-machine trimming attachment	A. B. Roberts and C. H. Forbes	317,205	May 5	322	95	31	531
Sewing-machine trimming attachment	G. Schoen	322,326	July 14	1225	322	32	233
Sewing-machine trimming mechanism	T. C. Robinson	317,419	May 5	665	169	31	643
Sewing-machine tuck-marker	J. M. Griest	319,706	June 9	991	262	31	1239
Sewing-machine tuck-marking attachment	A. W. Johnson	329,908	Nov. 10	657	168	33	635
Sewing-machine tucker	W. T. Johnson	325,069	Aug. 25	2297	632	32	973
Sewing-machine tucker attachment	S. Needles	321,310	June 30	3179	847	31	1660
Sewing-machine underbraider	J. M. Griest	319,704	June 9	989	261	31	1239
Sewing-machine wax-heater	B. F. Landis	328,233	Oct. 13	938	244	33	178
Sewing-machine. Wax-thread	A. S. Richardson	314,478	Mar. 24	1050	519	30	1165
Sewing-machine waxing device	B. F. Landis	331,306	Dec. 1	67	17	33	1011
Sewing-machines. Attaching writing-desks to	R. S. Ellyson	330,100	Nov. 10	919	239	33	687
Sewing-machines. Attachment-holding device for use on	J. P. Lavigne	326,302	Sept. 15	1462	380	32	1300
Sewing-machines. Bracing or staying attachment for button-hole	F. D. Walden	326,811	Sept. 22	2159	562	32	1432
Sewing-machines. Combined braiding and cording attachment for	D. H. Coles	318,357	May 19	1915	516	31	892
Sewing-machines. Cover-fastening device for	C. H. Bayley	316,108	Apr. 21	1572	409	31	298
Sewing-machines. Device for attaching presser-feet and other attachments to	H. C. Goodrich	333,004	Dec. 22	2540	670	33	1473
Sewing-machines. Feeding mechanism for boot and shoe	F. Chase	314,516	Mar. 24	2001	534	30	1174
Sewing-machines for boots and shoes. Feed-motion for	C. Mansfield	332,812	Dec. 22	2263	597	33	1423
Sewing-machines. Mechanism for controlling steam-driven	J. H. Rohme	326,457	Sept. 15	1645	430	32	1334
Sewing-machines. Moquette-guide for carpet	G. Grisel	333,125	Dec. 29	2717	713	33	1510
Sewing-machines. Needle for leather	W. G. Tillou	318,833	May 26	2553	680	31	1015
Sewing-machines. Operating	C. G. Spengler	324,044	Aug. 11	860	238	32	690
Sewing-machines. Oscillating looper for	T. C. Robinson	316,065	Apr. 21	1503	393	31	285
Sewing-machines. Presser-foot-lifting and brake mechanism for	D. W. Allen	327,218	Sept. 29	2706	704	32	1539
Sewing-machines. Spring take-up for wax-thread	C. Drumm and W. Wyker	320,857	June 23	2587	685	31	1545
Sewing-machines. Stop mechanism for button-hole	E. D. and G. M. Ludlow	315,952	Apr. 14	1357	352	31	251
Sewing-machines. Tack-pulling mechanism for boot and shoe	W. S. Brainard	329,357	Oct. 27	2516	649	33	479
Sewing-mechanism. Button-hole	D. Mills	313,359	Mar. 3	453	115	30	860
Sewing-mechanism. Button-hole	D. Mills	319,835	June 9	1179	311	31	1272
Sewing or embroidering machines. Fixing cords or braids to textile fabrics by means of	E. Cornely	311,614	Feb. 3	244	69	30	395
Sewing straw braid. Machine for	M. P. C. Hooper. (Reissue)	10,600	May 26	2690	712	31	1040
Sewing to fasten the ends of sewed seams	E. S. Cram	315,916	Apr. 14	1310	341	31	243
Sewing welts to shoe insoles and uppers. Machine for	E. F. Arnold	329,426	Nov. 3	1	1	33	505
Sextant	P. Leuba	310,692	Jan. 13	684	188	30	136
Shade and blind	C. O. Sörle	330,636	Nov. 24	2009	543	33	911
Shade-holder	F. Barrows	328,975	Oct. 13	992	258	33	188
Shade-holder	E. L. Bryant	318,693	May 26	2362	630	31	902
Shade-holder	W. H. Wible	321,926	July 7	700	185	32	129
Shade-pull	A. F. Gregory	327,545	Oct. 6	58	13	33	12
Shade-roller	S. Hartshorn	322,713	July 21	1754	463	32	335
Shade-roller	T. A. Lewis	330,987	Nov. 24	2074	592	33	923
Shade-roller. Automatic	G. W. Stewart	333,299	Dec. 15	1546	405	33	1288
Shade-roller. Friction	J. Hardman, Jr.	327,161	Sept. 27	2636	686	32	1524
Shade-roller. Spring	S. Hartshorn	320,247	June 16	1740	462	31	1381
Shade-roller. Spring	S. Hartshorn	328,216	Oct. 13	918	239	33	175
Shade-roller. Spring	J. C. Lake	310,595	Jan. 13	561	156	30	113
Shades and blinds. Self-acting mechanism for	J. Hilditch	315,029	Apr. 7	57	14	31	12
Shaft and coupling. Flexible	A. W. Browne	320,941	Sept. 29	2243	613	32	1473
Shaft and pulley bearing	W. E. Crist	322,625	July 21	1510	397	32	291
Shaft and pulley bearing. Combined	G. Gerdon	312,561	Feb. 17	1518	413	30	646
Shaft ball-bearing	J. M. Marlin	331,896	Dec. 8	967	250	33	1179
Shaft-bearing	O. Mergenthaler	324,400	Aug. 18	1359	370	32	792
Shaft-bearing	W. A. Patrick	318,649	May 26	2303	616	31	971
Shaft-casing	W. F. Hutchinson	322,540	July 21	1524	402	32	283
Shaft-coupler	W. Schofield	317,955	May 12	1375	369	31	785
Shaft-coupling	C. E. Geo	318,975	June 2	63	16	31	1060
Shaft-coupling	C. R. James	315,791	Apr. 14	1133	297	31	213
Shaft-coupling	W. Johnston	331,200	Nov. 24	2363	639	33	976
Shaft-coupling	E. D. Mackintosh	320,439	June 16	2049	537	31	1435
Shaft-coupling	S. Stuart	310,919	Apr. 28	2696	702	31	509
Shaft-coupling	H. Taber	322,866	July 21	1965	580	32	373
Shaft-coupling	W. B. Turner	314,206	Mar. 17	1578	418	30	1086
Shaft-coupling	J. Yocum, Jr.	333,676	Dec. 29	3056	797	33	1570
Shaft-coupling. Universal	H. C. Crowell	333,449	Dec. 29	3150	823	33	1586
Shaft. Crank	P. A. Peer	315,060	Apr. 7	106	25	31	21
Shaft. Crank	F. Trump	318,056	May 19	1519	407	31	818
Shaft. Flexible	M. G. Farmer	312,241	Feb. 10	1065	293	30	553
Shaft. Flexible	J. C. Wilson, Sr.	322,666	July 21	1691	448	32	324
Shaft-hanger	J. Chivill	327,524	Oct. 6	18	5	33	5
Shaft-hanger	V. Knecht	312,866	Feb. 24	1924	596	30	727
Shaft-hanger	J. F. McCormick	319,106	June 2	214	6	31	1087
Shaft-hanger	P. Medart	319,004	June 2	91	24	31	1065
Shaft-hanger	W. J. Perkins	311,720	Feb. 3	414	112	30	426
Shaft-hanger	W. Roberts	326,789	Sept. 22	2127	553	32	1427
Shaft-holder	A. Getzschmann	328,209	Oct. 13	909	236	33	173

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Shaft-liner.....	W. J. S. Osborn and J. Madden	323,826	Aug. 4	567	161	32	630
Shaft-loop.....	H. F. Bock	325,045	Aug. 25	2239	614	32	962
Shaft-lubricator.....	W. Dame	312,822	Feb. 24	1850	510	30	717
Shaft-lubricator.....	C. Pagé and L. Goullioud	315,538	Apr. 14	791	909	31	147
Shaft-shackle.....	B. F. Lewis	314,694	Mar. 31	2228	502	30	1242
Shaft-straightening machine.....	A. Wood	320,610	June 23	2279	602	31	1487
Shaft-support.....	J. H. Kleppinger	313,000	Mar. 10	767	902	30	922
Shaft-support.....	J. F. Richardson	319,851	June 9	1196	316	31	1275
Shaft support. Vehicle.....	D. Ellsworth and M. Rogers	327,930	Oct. 6	549	143	33	96
Shaft tip. Carriage.....	A. L. Howard	315,787	Apr. 14	1129	296	31	212
Shaft tips. Die for making carriage.....	A. L. Howard	311,430	Jan. 27	1713	466	30	335
Shaft. Vehicle.....	J. S. and A. S. Scott	312,721	Feb. 10	766	205	30	458
Shafts and pole for vehicles. Combined.....	J. Pettinger	316,651	Apr. 22	2292	602	31	435
Shafts. Apparatus for fitting and finishing crank.....	H. See	322,205	July 14	1084	291	32	206
Shafts. Ball and roller bearing for.....	D. H. Rice	321,053	June 30	2255	558	31	1601
Shafts. Ball and roller bearing for.....	D. H. Rice	322,482	July 21	1454	382	32	220
Shafts. Device for leveling and aligning.....	C. Espenschied	318,885	May 26	2624	636	31	1022
Shafts. Device for locking collars and rings to.....	C. Meese	331,522	Dec. 1	377	101	33	1066
Shafts. End-thrust pad for propeller and other.....	V. H. Hallock	315,776	Apr. 14	1115	293	31	209
Shafts from heat. Protecting.....	A. T. Ballentine	317,435	May 5	684	175	31	646
Shafts. Manufacture of crank.....	H. See	322,204	July 14	1082	291	32	206
Shafts. Step-bearing for vertical.....	J. P. Frizell	321,298	June 30	3153	841	31	1655
Shafts. Supporter-pad for propeller and other.....	V. H. Hallock	315,777	Apr. 14	1116	293	31	209
Shafts. Vehicle.....	H. F. Jackson	314,296	Mar. 24	1706	454	30	1130
Shafts. Vehicle.....	J. A. Johnson	326,505	Sept. 15	1702	444	32	1344
Shafting.....	P. M. Haas	332,076	Dec. 8	1230	321	33	1227
Shafting. Device for leveling and aligning.....	C. Espenschied	318,886	May 26	2625	636	31	1022
Shafting. Making long lengths of.....	T. R. Morgan, Sr.	330,952	June 30	2716	720	31	1575
Shafting. Manufacturing rolled and polished.....	P. M. Haas	332,075	Dec. 8	1228	320	33	1226
Shaftings, pipes, &c. Hanger for.....	F. Cadwallader.....	325,051	Aug. 25	2248	617	32	963
Shaker.....	M. Seips	324,173	Aug. 11	1037	283	32	733
Shaker and strainer. Combined.....	A. Rasner	316,625	Apr. 28	2550	668	31	422
Shallow-water indicator.....	F. E. Forster	326,028	Sept. 8	1072	274	32	1220
Shampooing. Apparatus for.....	H. Mais	325,092	Aug. 25	2307	635	32	875
Shank-stiffener.....	J. M. Watson	320,989	June 30	2774	737	31	1585
Shaping-machine reversing-gear.....	D. L. Ballard	310,774	Jan. 13	788	213	30	155
Shaping-tool.....	N. S. Stowell	317,424	May 5	672	170	31	645
Shaving-case.....	J. H. Flagg	333,293	Dec. 29	2952	771	33	1552
Shaving-cup.....	J. Fuchs and J. Schweickert	328,020	Oct. 13	668	176	33	122
Shaving-mug.....	T. Maylor	328,240	Oct. 13	950	247	33	181
Shaving. Removing hair as a substitute for.....	S. R. Kennedy	330,790	Nov. 17	1810	461	33	866
Shawl-strap.....	L. A. Beatty	310,641	Jan. 13	615	169	30	123
Shawl-strap.....	M. Rubin	317,212	May 5	329	97	31	594
Shawl-strap handle.....	F. E. Baker	314,509	Mar. 24	1994	531	30	1173
Sheaf-carrier.....	G. Berger and A. M. Harris	322,779	July 21	1839	468	32	351
Sheaf-carrier.....	W. N. Whiteley	311,550	Feb. 3	129	27	30	373
Shear-blade for hot blooms, bars, &c.....	S. M. Guss	325,673	Sept. 8	607	154	32	1135
Shears.....							
See Animal-shears. Plant-cutting shears.							
Lever-shears. Pruning-shears.							
Metal-shears. Rotary shears.							
Metal workers' shears. Sheep-shears.							
shears. Tailor's shears.							
Shears.....	J. L. Dufrane	326,485	Sept. 15	1678	438	32	1330
Shears.....	R. G. Lewis and S. E. Mosher	327,092	Sept. 29	2543	663	32	1526
Shears.....	A. J. Lytle	320,940	June 30	2703	711	31	1573
Shears.....	B. F. McCarty	326,768	Sept. 22	2004	544	32	1420
Shears.....	W. Richard and O. M. Holcomb	330,738	Nov. 17	1749	470	33	655
Shears.....	W. Schollhorn	314,729	Mar. 31	2251	606	30	1551
Shears.....	J. M. Whiting	330,813	Nov. 17	1842	496	33	873
Shears and sets ora. Ornamenting.....	T. B. Terry	316,311	Apr. 21	1828	481	31	345
Shears. Blade for.....	H. Aiken	331,934	Dec. 8	1025	266	33	1191
Shears. Comb attachment for.....	D. M. Young	332,030	Dec. 8	1166	304	33	1915
Shears for iron.....	D. K. Beals	323,389	Aug. 4	9	3	32	524
Shears. Lever attachment for hand.....	P. Kearns	315,295	Apr. 7	431	109	31	78
Shearing-die.....	H. Hammond	326,644	Sept. 22	1893	498	32	1386
Sheathing and lath. Combined wooden.....	E. M. Byrkit	314,514	Mar. 24	1998	533	30	1173
Sheathing for buildings.....	D. S. Chesebro	320,757	June 23	2463	653	31	1323
Sheave. Adjustable angle.....	A. Tromblée	315,090	Apr. 7	139	32	31	87
Sheave. Metal.....	G. A. Ford	323,136	July 28	2350	624	32	452
Sheave or pulley-block.....	E. Y. Moore	329,667	Nov. 3	323	83	33	566
Sheep-dip.....	O. B. Monnet	319,990	June 16	1403	31	31	1319
Sheep-rack.....	S. Gillogly	320,649	June 23	2332	616	31	1485
Sheep-rack.....	E. J. Legate	310,897	Jan. 20	944	258	30	190
Sheep-shears.....	E. Kellogg	323,691	Aug. 4	405	116	32	582
Sheep-stock.....	F. M. Swartz	312,403	Feb. 17	1293	357	30	605
Sheet and plate metal. Removing swells in.....	J. W. Britton	312,608	Feb. 24	1574	431	30	666
Sheet-delivery apparatus.....	L. C. Crowell	312,258	Feb. 17	1092	301	30	566
Sheet-delivery apparatus.....	L. C. Crowell	316,123	Apr. 21	1504	415	31	363
Sheet-delivery apparatus.....	L. C. Crowell	317,742	May 12	1087	416	31	729
Sheet-delivery apparatus.....	L. C. Crowell	332,236	Dec. 15	1462	381	33	1274
Sheet-delivery apparatus.....	G. P. Fenner	324,245	Aug. 11	1145	312	32	743
Sheet-delivery apparatus.....	J. T. Hawkins	323,329	July 28	2029	699	31	501
Sheet-delivery apparatus. Counting mechanism for.....	L. C. Crowell	331,222	Dec. 1	32	78	33	1008

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	De'th	Vol.	Page.
Sheet-metal-bending machine	M. Cullen	328,387	Oct. 13	1154	297	33	218
Sheet-metal-bending machine	C. C. Hare	330,653	June 23	2337	298	31	1497
Sheet-metal can	T. W. Burger and H. A. Lee	321,277	June 30	3140	536	31	1652
Sheet-metal can	T. G. F. Dolby	331,462	Dec. 1	321	86, 87	33	1055
Sheet-metal can	G. W. Taylor	315,854	Apr. 14	1212	316	31	227
Sheet-metal can	F. A. Walsh	333,179	Dec. 29	2791	730	33	1522
Sheet-metal can	F. A. Walsh	333,180	Dec. 29	2792	731	33	1522
Sheet-metal-corrugating roll	J. L. Lewis	329,322	Oct. 27	2456	635	33	469
Sheet-metal-cutting machine	C. Wais	312,236	Feb. 10	1056	290	30	551
Sheet-metal-cutting press	W. Werts	326,183	Sept. 15	1290	291	32	1267
Sheet metal. Die for corrugating	C. B. Cooper	318,088	May 19	1556	333	31	825
Sheet metal. Die for finishing blanks from	E. Horton	317,789	May 12	1149	417	31	741
Sheet metal. Edging	W. E. Spangler	316,196	Apr. 21	1683	304	31	741
Sheet-metal-drawing press	R. H. Tweddell, J. Platt, and J. Fielding.	317,427	May 5	682	172	31	646
Sheet-metal-folding machine	W. J. Bayrer	314,311	Mar. 24	1723	173	30	1123
Sheet-metal hollow ware. Die for the manufacture of.	C. Kind	321,822	July 7	575	458	32	106
Sheet metal. Machine for cross-turning.	V. Sharp	317,585	May 12	885	459	31	691
Sheet metal. Machine for edging	W. B. Huber	316,461	Apr. 28	2055	927	31	389
Sheet metal. Machine for oval-cutting	J. Rupertus	332,214	Dec. 8	1430	538	31	1261
Sheet-metal pans. Apparatus for wiring	J. Wagner	320,020	June 16	1442	369	31	1326
Sheet-metal pipe. Manufacturing	J. F. Starr, Jr.	312,301	Feb. 17	1159	378	31	579
Sheet-metal pipes. Machine for forming and thread- ing	M. K. Pierce	326,516	Sept. 15	1719	317	32	1348
Sheet-metal-straightening apparatus.	J. W. Britton	312,607	Feb. 24	1573	448	30	666
Sheet-metal-trunk-covering and ornamenting the same.	W. B. Gould	312,715	Feb. 24	1715	471	30	691
Sheet-metal tubes. Machine for forming and seaming.	E. Jordan	310,895	Jan. 20	938	255	30	189
Sheet-metal vessel	I. S. Lauback	317,807	May 12	1174	257	31	746
Sheet-metal ware. Making	H. L. Palmer	319,306	June 2	450	311	31	1133
Sheet-superimposing mechanism	L. C. Crowell	328,880	Oct. 20	1795	121	33	343
Shelf-bracket	B. F. Tatom	317,242	May 5	424	469	31	601
Shell	J. Garrick	322,275	July 14	1161	106	32	221
Shell	J. Garrick	325,166	Aug. 25	2388	304	32	989
Shell	C. W. Hayes	325,538	Sept. 1	435	657	32	1090
Shell	B. B. Hill	316,970	May 5	53	108	32	532
Shell	J. S. Pessenger	313,683	Mar. 10	868	14	31	949
Shell	M. Von Fürster	333,091	Dec. 22	2662	296	33	1494
Shell. Chain	F. H. Williams	325,300	Sept. 1	97	698	32	1033
Shell-crimping implement	A. Bown	318,412	May 19	1985	27	31	905
Shell. Dynamite	J. F. Marvin	314,036	Mar. 17	1363	534	30	1047
Shell. Explosive	W. T. Chamberlain	312,705	Feb. 24	1700	355	30	688
Sheller. See Corn-sheller. Pea-sheller.							
Shelving	H. T. Reed	327,592	Oct. 6	120	28	33	23
Shelving	F. O. Reisoner	322,201	July 14	1077	279	32	205
Shelving-bracket	J. Bains	327,129	Sept. 29	2592	280	32	1516
Shelving. Portable	C. H. Post	325,696	Sept. 8	636	675	32	1139
Shepherd's crook	D. Conner	316,242	Apr. 21	1743	162	31	329
Shield and blotter	M. R. B. Cowan	310,257	Jan. 6	127	458	30	96
Shingle	W. J. Perkins	315,061	Apr. 7	106	36	31	21
Shingle and siding gage	W. H. H. Campbell	315,722	Apr. 14	1033	25	31	193
Shingle-binding tool	H. E. Brackett and F. L. Sawyer	326,621	Sept. 22	1867	271	32	1340
Shingle-bunch band	H. E. Brackett and F. L. Sawyer	323,493	Aug. 4	140	489	32	548
Shingle. Metallic	M. G. Farmer	316,134	Apr. 21	1611	42	31	305
Shingle. Metallic	M. G. Farmer	326,108	Sept. 15	1176	421	32	1246
Shingle. Metallic	J. T. Hyndman	326,655	Sept. 22	1911	301	32	1349
Shingle or roof bracket	E. R. Elmer	330,971	Nov. 24	2054	502	33	919
Shingle-planing machine	T. S. Disston	312,444	Feb. 17	1344	556	30	615
Shingle. Roofing	G. Hall	318,724	May 26	2400	370	31	989
Shingle-sawing machine	F. Challoner	318,956	June 2	34	640	31	1055
Shingle-sawing machine	W. J. Perkins	314,603	Mar. 31	2114	9	30	1221
Shingle-sawing machine	W. J. Perkins	325,693	Sept. 8	631	563	32	1138
Shingle-sawing machine	F. Stahl	316,301	Apr. 21	1819	160	31	343
Shingle-slicing machine	C. H. and J. B. Spencer	331,839	Dec. 8	885	478	33	1164
Shingles for painting. Apparatus for holding	W. W. Robinson	320,589	June 23	2254	229	31	1482
Shingling-bracket	G. W. Adams	310,631	Jan. 13	604	597	30	121
Ship-ballast	G. W. Schermerhorn	327,724	Oct. 6	296	166	33	52
Ship-bottoms. Device for cleaning	N. A. Gustafson	313,822	Mar. 10	1063	75	30	983
Ship-log. Hydro-aerostatic	O. Hult	319,582	June 9	832	274	31	1211
Ships and transferring curves. Apparatus for mold- ing the frames of	T. Johnson and J. McDonnell	326,506	Sept. 15	1703	221	32	1344
Ships. Apparatus for cleaning submerged parts of	A. D. Spier	320,824	June 23	2541	444	31	1537
Ships. Apparatus for cleaning the sides and bot- toms of	H. Arentz	328,744	Oct. 20	1633	673	33	312
Ships. Apparatus for cleaning the sides and bot- toms of	D. Hunter	318,904	May 26	2648	425	31	1033
Ships' cleaning apparatus. Tackle for working	A. D. Spier	318,814	May 26	2530	702	31	1011
Ships. Construction of	E. Swindell	323,831	Aug. 4	576	675	32	631
Ships. Construction of	E. Swindell	323,832	Aug. 4	577	163	32	632
Ships from foundering, &c. Saving	T. Bridge	326,896	Sept. 22	2280	563	32	1454
Ship's log. Registering	J. and G. H. Bliss. (Reissue)	10,625	July 21	1997	592	32	379
Ship's logs. Electro-magnetic speed-register for	B. Faymonville	323,134	July 28	2348	623	32	451

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Ships' logs. Rotator for	J. and G. H. Bliss	331,369	Dec. 1	160	41	33	1027
Shipping and transferring coal, salt, &c. Apparatus for	A. R. Large	316,982	May 5	68	18	31	535
Shipping-box	A. H. Morrison and W. A. Preston	323,714	Aug. 4	431	123	32	604
Shipping-box or crate	B. Shunk	312,173	Feb. 10	979	267	30	537
Shipping-can	J. F. Brown	336,940	Sept. 29	2342	613	32	1473
Shipping-can	E. Norton	327,579	Oct. 6	101	23	33	19
Shipping-can	E. Norton	327,580	Oct. 6	102	23	33	19
Shipping-case	C. Mitrucker	311,025	Jan. 20	1126	308	30	222
Shirt	A. H. Brinkmann	317,711	May 12	1045	272	31	722
Shirt	D. N. Bristol	315,119	Apr. 7	174	42.43	31	32
Shirt	E. T. Craven	330,285	Nov. 10	1166	310	33	736
Shirt	C. N. Davis	318,546	May 26	2182	584	31	949
Shirt	M. Hermann	319,487	June 9	705	189	31	1187
Shirt	E. Krahn	321,370	June 30	3257	870	31	1676
Shirt	L. Lemos	325,253	Sept. 1	27	8	32	1020
Shirt	C. K. Miller and G. H. Cleveland	317,833	May 12	1215	381	31	754
Shirt	N. Roggen and T. Eisenstein	322,397	July 14	1326	345	39	222
Shirt	J. W. Smith	321,544	July 7	194	51	32	38
Shirt	W. M. Spence	317,873	May 12	1262	336	31	763
Shirt	S. Thal	322,502	July 21	1488	391	32	286
Shirt and necktie fastener	S. Fechheimer	310,661	Jan. 13	640	176	30	126
Shirt-bodies. Securing bosoms to	M. Hermann	332,799	Dec. 22	2252	594	33	1490
Shirt-bosom	S. Deutsch	321,801	July 7	535	141	32	99
Shirt-bosom	L. Price and I. Wallach	317,417	May 5	662	168	31	643
Shirt. Bosom	W. L. Hall	331,786	Dec. 8	804	204	33	1149
Shirt. Bosom	G. W. Pine	313,520	Mar. 10	665	173	30	909
Shirt-cabinet	J. L. Libby	322,303	July 14	1497	314	32	227
Shirt cuff and wristband	J. B. See	315,174	Apr. 7	260	63	31	47
Shirt-neckband protector	D. N. Bristol	315,117	Apr. 7	173	42	31	32
Shirt or dress placket	V. E. Lavallie	330,498	Nov. 17	1443	386	33	796
Shirt or shirt-waist	J. Simon	327,329	Sept. 29	2644	742	32	1563
Shirt-yoke shield	D. N. Bristol	315,118	Apr. 7	174	42	31	32
Shirts. Attaching bosoms to	J. W. Cadby	323,783	Aug. 4	590	147	32	620
Shirts. Attaching bosoms to	M. Hermann	322,717	July 21	1759	465	32	336
Shirts. Attaching bosoms to	M. Hermann	322,718	July 21	1760	465	32	336
Shirts. Combined re-enforce and stay for the backs of	J. M. Ide	313,870	Mar. 17	1142	297	30	1006
Shoe	E. Anglim	313,271	Mar. 3	341	84	30	838
Shoe	S. C. K. Böhm	324,810	Aug. 25	1927	530	32	903
Shoe	C. B. Godfrey	316,454	Apr. 28	2046	536	31	388
Shoe	W. D. Hall	317,127	May 5	264	66	31	571
Shoe	G. S. Kann	310,440	Jan. 6	357	98	30	69
Shoe	T. F. Lemassena	314,588	Mar. 31	2095	559	30	1318
Shoe	C. Libby	331,146	Nov. 24	2265	619	33	961
Shoe	J. Morton	324,405	Aug. 18	1366	371	32	739
Shoe	A. S. Richardson	310,850	June 9	1196	316	31	1275
Shoe	W. E. Rose	310,785	Jan. 13	727	198	30	144
Shoe	G. W. Sleeper	320,406	June 16	2010	527	31	1428
Shoe	G. A. Smith	331,833	Dec. 8	875	225	33	1162
Shoe	J. J. Tompkins	325,543	Oct. 20	1349	332	30	927
Shoe	W. Watkins	311,275	Jan. 27	1500	409	30	505
Shoe	C. H. Winter	312,056	Feb. 10	804	219	32	1028
Shoe. Ankle-supporting	L. Smadbeck and B. Nathan	325,280	Sept. 1	69	21	32	427
Shoe-box indicator	F. L. Kerr	323,042	July 28	2228	589	32	353
Shoe-clasp	S. A. Chapman	322,789	July 21	1850	492	32	23
Shoe-clasp	J. C. Hammond, Jr.	321,495	July 7	115	31	32	23
Shoe-clasp	J. C. Hammond, Jr.	324,107	Aug. 11	945	260	32	706
Shoe-clasp	J. C. Hammond, Jr., and T. E. King	314,669	Mar. 31	2203	585	30	1237
Shoe-clasp	J. L. Thomson	313,255	Mar. 3	325	80	30	867
Shoe-clasp	J. L. Thomson and J. J. Unbehend	313,385	Mar. 3	425	127	30	867
Shoe-clasp	J. J. Unbehend	313,388	Mar. 3	499	128	30	867
Shoe-clasp	J. J. Unbehend	313,389	Mar. 3	490	128	30	867
Shoe-clasp	J. J. Unbehend. (Reissue)	10,573	Mar. 17	1590	420	30	1087
Shoe-clasps. Attaching	J. L. Thomson	313,256	Mar. 3	327	80	30	835
Shoe-fastener	F. Jacob	312,723	Feb. 24	1725	474	32	663
Shoe-fastener	F. Jacob	324,702	Aug. 18	1774	469	32	663
Shoe-fastener	M. Navlon	315,819	Apr. 14	1169	306	31	219
Shoe-fastener. Rubber	J. A. Kessel	317,654	May 12	976	252	31	708
Shoe-fastener. Rubber	J. A. Kessel	318,481	May 26	2073	560	31	901
Shoe-fastening	G. A. Colton	311,104	Jan. 20	1246	341	30	244
Shoe-fastening	P. Flad	325,522	Sept. 1	417	103	32	1096
Shoe-fastening	S. H. Raymond	325,115	Aug. 25	2236	640	32	978
Shoe-fastening	H. H. Rodman	313,533	Mar. 10	680	178	30	912
Shoe-fastening	H. H. Rodman	315,554	Apr. 14	816	214	31	151
Shoe-fastening	S. Vetsburg	314,550	Mar. 24	2043	545	30	1121
Shoe-form. Bottomless	A. W. Rogers	391,640	July 7	312	83	32	60
Shoe-finishing jack	J. F. Child	317,091	May 5	212	53.54	31	562
Shoe-heel	J. Howland	314,130	Mar. 17	1490	389	30	1070
Shoe-heels. Machine for making ladies'	F. Ortlepp	320,164	June 16	1632	434	31	1300
Shoe-insolca. Forming	E. Meise	319,740	June 9	1038	275	31	249
Shoe. Laced	T. J. Lynch	332,158	Dec. 8	1360	352	33	1246
Shoe. Laced	T. J. Lynch	332,159	Dec. 8	1360	352	33	1246
Shoe-last	C. Pomeroy	331,256	Nov. 24	2449	662	33	900
Shoe-lasting machine	S. S. Libby	317,384	May 5	615	158	31	635
Shoe-machine. Wooden	F. Meinecke	310,216	Jan. 6	71	19	30	16
Shoe-maker's jack	J. B. Litchman	331,414	Dec. 1	233	61	33	1009
Shoe-maker's pinchers	J. G. Lynn	315,430	Apr. 7	619	159	31	546
Shoe-maker's pinchers	C. F. O. Nordin	329,588	Nov. 3	223	58	33	546
Shoe-maker's rasping-tool	T. S. Wheatley	320,733	June 23	2432	64.65	31	1316
Shoe-maker's use. Last-stand for	T. and B. Hartley	311,315	Jan. 27	1533	423	30	705
Shoe-maker's work-table	A. M. Bollinger	310,784	Jan. 13	800	217	30	157
Shoe-nail	L. J. Atwood	324,070	Aug. 11	698	248	32	697

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Shoe-nail	E. J. Le Gay	324,126	Aug. 11	974	268	32	713
Shoe-nail. Barbed-wire	H. K. Jones	313,078	Mar. 3	51	14	30	787
Shoe-nail cutter	T. A. Manchester	314,255	Mar. 24	1644	436	30	1108
Shoe-nailing machine	H. S. Bacon	319,876	June 9	1233	326	31	1281
Shoe or gaiter	F. P. Buzzell	329,533	Nov. 3	152	38	33	534
Shoe. Plow	M. Walker	332,463	Dec. 15	1767	462	33	1327
Shoe-quarters. Machine for crimping	T. Nally	325,267	Sept. 1	46	14	32	1024
Shoe. Rubber	C. Cleves	311,473	Feb. 3	15	4	30	351
Shoe. Seamless	H. Haller	317,643	May 12	960	247	31	705
Shoe-soles and other purposes. Fabric for	G. F. Butterfield	325,785	Sept. 8	769	192	32	1163
Shoe-stretcher	W. Jones	315,631	Apr. 14	914	240	31	170
Shoe. Swimming	J. A. Conper	330,762	June 23	2470	654	31	1524
Shoe-tree	J. A. Higgins	319,412	June 2	581	158	31	1159
Shoe tying and knotting machine	A. W. Weeks	329,519	Nov. 3	126	34, 35	33	529
Shoe tying and knotting machine	A. W. Weeks	329,521	Nov. 3	135	35	33	530
Shoe-upper	W. G. Slater	327,114	Sept. 29	2570	670	32	1513
Shoe-upper machine	C. B. Hatfield	318,731	May 26	2409	642	31	991
Shoe-upper tree	J. Meyer	317,560	May 12	851	219	31	686
Shoe. Wooden-soled	A. J. Tewksbury	315,572	Apr. 14	842	221	31	156
Shoes, gloves, &c. Fastening device for	S. Abecasis	318,407	May 19	1981	533	31	904
Shoes, gloves, &c. Fastening for	T. Hawley	329,901	Nov. 10	649	185	33	633
Shoes. Inside stay for	J. Walden	310,340	Jan. 6	246	67	30	46
Shoes. Machine for inserting and clinching staples in	H. E. Cunningham	333,254	Dec. 20	2925	768	33	1549
Shoes. Machine for splitting the uppers for	G. W. Sleeper	320,407	June 16	2011	528	31	1428
Shoes. Manufacture of turned	T. O'Boyle	321,998	July 14	810	212	32	156
Shot-grading machine	C. C. Tracy	310,335	Jan. 6	240	65, 66	30	46
Shot-separator feeder	A. Enston	319,684	June 9	960	255	31	1234
Shoulder-brace	W. Carroll and J. Meekison	330,094	Nov. 10	915	237	33	685
Shoulder-brace	M. F. Linguist	329,659	Nov. 3	313	80	33	564
Shoulder-brace	I. Strouse	317,474	May 5	741	188	31	657
Shovel:							
See Cultivator-shovel.	Grated shovel.						
Fire-shovel.	Snow-shovel.						
Shovel	B. F. Anthony	332,132	Dec. 8	1321	343	33	1243
Shovel	J. Johnson	327,174	Sept. 29	2654	690	32	1527
Shovel	H. M. Whitney	320,197	June 16	1672	445	31	1368
Shovel and spade handle	A. T. Heiser	330,481	Nov. 17	1425	381	33	792
Shovel-handle	E. K. Holton	321,028	June 30	2-26	751	31	1596
Shovel step or guard	K. H. Elliott	310,567	Jan. 13	524	143	30	106
Shovel mechanism. Automatic	C. J. Rinderknecht	317,016	May 5	115	29	31	543
Shovel or spade handle	P. W. Groom	315,407	Apr. 7	584	150	31	105
Show-box	E. S. B. Tombs	314,893	Mar. 31	2524	668	30	1296
Show-box	W. C. Thompson	327,838	Oct. 6	434	113	33	76
Show-case. Combined stock and sample.	W. P. Vrooman	331,171	Nov. 24	2318	628	33	968
Show-case for cooling oysters, &c	A. T. Lundqvist	319,418	June 2	589	160	31	1160
Show-case stand	J. S. Dunlap	332,192	Dec. 8	1395	361	33	1255
Show-stand	M. Brenner	323,631	Aug. 4	329	94	32	583
Show-stand. Revolving	S. T. Culp	324,663	Aug. 18	1720	473	32	857
Show-stand. Wire	S. Ayres	331,222	Nov. 24	2397	648	33	981
Shrimps. Preserving	Yee Fo	310,811	Jan. 13	831	.....	30	183
Shroud for human bodies	J. D. Marston and G. Clapp	333,142	Dec. 29	2739	719	33	1514
Shutter	R. Hammill	332,655	Dec. 15	2052	539	33	1377
Shutter	H. O. Whymen	315,580	Apr. 14	849	223	31	158
Shutter and door bolt	A. J. Doelittle	319,207	June 2	327	87	31	1109
Shutter-bolt	J. Von Hollen	315,681	Apr. 14	975	255	31	183
Shutter-bower	M. R. Tallman	314,750	Mar. 31	2305	612	30	1257
Shutter-bower	G. F. S. Zimmerman	326,373	Sept. 15	1549	402	32	1316
Shutter-fastener	J. A. Burr	318,414	May 19	1987	535	31	905
Shutter-fastener	W. Delano	324,460	Aug. 18	1437	393	32	805
Shutter-fastener	T. Dougherty	319,209	June 2	328	88	31	1109
Shutter-fastener	J. S. Dunham	326,486	Sept. 15	1679	438	32	1340
Shutter-fastener	F. C. Robinson	330,741	Nov. 17	1752	471	33	855
Shutter-fastener	J. S. Ryan and J. Conway	311,448	Jan. 27	1733	472	30	339
Shutter-fastener	G. J. Thomas	323,232	July 28	2487	600	32	476
Shutter-fastener	A. Van Wie	313,261	Mar. 3	331	82	30	836
Shutter-fastener	J. Von Hollen	315,979	Apr. 14	1393	361	31	258
Shutter fastener and bower. Combined	F. C. Robinson	332,835	Dec. 23	2293	604	33	1428
Shutter fastener and opener. Combined	A. Horn and M. J. Leick	332,343	Dec. 15	1608	422	33	1300
Shutter. Fire-proof	C. F. Brigham	312,549	Feb. 17	1501	409	30	643
Shutter. Fire-proof	C. C. Schreiber	320,974	June 30	2756	733	31	1582
Shutter. Inside	W. A. Hollbrook	320,786	June 23	2497	661	31	1528
Shutter. Window	F. D. Pavulise	314,393	Mar. 24	1831	487	30	1144
Shutter. Window	H. E. Willer	312,053	Feb. 10	801	219	30	505
Shutter-worker	J. B. Armstrong	330,085	Nov. 10	905	234	33	683
Shutter-worker	F. E. Brown	333,442	Dec. 29	3141	621	33	1524
Shutter-worker	R. I. Brown	310,372	Jan. 6	282	78	30	54
Shutter-worker	J. Dierks	322,588	July 21	1594	420	32	305
Shutter-worker	L. O. Dion	316,529	Apr. 28	2136	562	31	406
Shutter-worker	A. H. Dodd	316,131	Apr. 21	1606	419	31	304
Shutter-worker	A. H. Dodd	319,205	June 2	325	87	31	1108
Shutter-worker	J. C. Driggs	324,969	Aug. 25	2171	584	32	948
Shutter-worker	R. G. Dudley	315,393	Apr. 7	560	145	31	101
Shutter-worker	R. G. Dudley	318,421	May 19	1995	537	31	907
Shutter-worker	J. A. Dyblie	310,566	Jan. 13	523	143	30	106
Shutter-worker	J. Harraves	318,109	May 19	1585	424	31	831
Shutter-worker	P. K. O'Leary	329,333	Oct. 27	2479	639	33	473
Shutter-worker	H. Palmer	324,149	Aug. 11	1000	275	32	716
Shutter-worker	G. E. Potter	319,999	June 16	1413	371	31	1321
Shutter-worker	E. Prescott	328,141	Oct. 13	821	215	33	156
Shutter-worker	G. W. Stover	321,396	June 30	3291	879	31	1682
Shutter-worker	L. Tilton	314,493	Mar. 24	1972	525	30	1169
Shutter-worker	J. N. Worthington	321,268	June 30	3130	833	31	1650

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Shutter-worker and slat-operator. Combined.....	T. H. Smith.....	312,300	Feb. 17	1158	317	30	579
Shuttle.....	F. P. Cheney.....	330,362	Nov. 10	1263	333	33	735
Shuttle-binders. Die for making.....	H. W. Wyman and L. F. Gordon.....	328,994	Oct. 27	1985	516	33	384
Shuttle-box binders. Roll for making.....	H. W. Wyman and L. F. Gordon.....	330,954	Nov. 24	2035	550	33	916
Shuttle-planer.....	L. Leeds.....	330,908	Nov. 24	1969	533	33	903
Sickle-bar.....	M. M. Barnes.....	329,696	Nov. 3	365	92	33	574
Sidewalk and paving block.....	H. G. Fiske.....	317,106	May 5	230	58	31	566
Sidewalk-clearer.....	C. E. Bartram.....	327,990	Oct. 13	629	166	33	121
Siding-gage.....	L. C. Benson and E. F. Perry.....	325,811	Sept. 8	804	202	32	1170
Siding-gage.....	J. H. Jenkins.....	314,134	Mar. 17	1495	390	30	1071
Siding-gage.....	P. V. Moberg.....	318,280	May 10	1809	469	31	672
Siding-gage or dog.....	A. C. L. Davis.....	316,338	Apr. 21	1865	494	31	350
Siding-rest.....	J. McDonald.....	331,519	Dec. 1	374	100	33	1065
Sieve. Ash.....	C. Leffingwell.....	310,447	Jan. 6	364	101	30	71
Sieve-brushing apparatus.....	F. A. Price.....	315,066	Apr. 7	111	95	31	22
Sieve for sifting flour, meal, &c.....	E. L. Barber.....	325,780	Sept. 8	763	190	32	1162
Sieve-operating device.....	R. D. Yost.....	314,904	Mar. 31	2542	678	30	1220
Sifter.....	A. L. Henry.....	311,696	Feb. 10	586	160	30	465
Sifter. Ash.....	T. F. Timby.....	331,344	Dec. 1	119	29	33	1080
Sifter. Ash.....	F. Chatelanat.....	317,974	May 19	1409	378	31	799
Sifter. Ash.....	B. H. Cook.....	312,434	Feb. 17	1333	367	30	613
Sifter. Ash.....	A. Hallwig.....	319,407	June 2	577	157	31	1132
Sifter. Ash.....	F. Heilmann.....	332,394	Dec. 15	1621	440	33	1312
Sifter. Ash.....	C. L. Kipo.....	318,567	May 26	2206	590	31	933
Sifter. Ash.....	J. McAuliffe.....	321,307	June 30	3174	846	31	1620
Sifter. Ash.....	S. J. Phreaner.....	316,653	Apr. 28	2294	602	31	435
Sifter. Ash.....	M. Reisch.....	313,109	Mar. 3	94	24	30	794
Sifter. Ash.....	J. A. Seitz.....	328,147	Oct. 13	831	217	33	157
Sifter. Coal.....	P. O'Connor.....	317,574	May 12	871	223	31	689
Sifter. Cinder.....	J. Carmichael.....	313,054	Mar. 3	20	5	30	722
Sifter. Flour.....	W. N. Campbell.....	310,791	Jan. 13	807	219	30	112
Sifter. Flour.....	A. F. Tripp and I. Woepfel.....	322,141	July 14	1009	263	32	152
Sifter for flour, &c.....	H. E. Fuller.....	310,405	Jan. 6	321	88	30	62
Sifter for flour, &c.....	A. Wolf.....	319,375	June 2	536	146	31	1170
Sifter. Revolving ash.....	W. H. Bayles.....	318,683	May 26	2348	627	31	959
Sign.....	J. C. Brewster.....	322,248	July 14	1133	205	32	215
Sign.....	W. A. McCool.....	319,833	June 9	1177	310	31	1172
Sign.....	W. A. McCool.....	328,796	Oct. 20	1691	440	33	324
Sign.....	F. McLowee.....	328,135	Oct. 13	815	213	33	153
Sign.....	C. C. Scales.....	321,252	June 30	3108	827	31	1646
Sign and door-plate.....	W. Pathle.....	330,511	Nov. 17	1462	391	33	719
Sign-board.....	W. H. Bushnell and W. H. Van Gilder.....	325,817	Sept. 8	816	204	32	1172
Sign. Electric incandescent.....	I. W. Heysinger.....	322,375	July 14	1296	339	32	246
Sign for cars. Traveling.....	G. M. Traylor.....	331,346	Dec. 1	194	30	33	1020
Sign for railway-cars. Traveling.....	G. M. Traylor.....	332,306	Dec. 15	1554	407	33	1290
Sign. Lamp and window.....	C. S. Watson.....	327,362	Sept. 29	2297	756	32	1570
Sign. Luminous.....	C. H. Proglor.....	332,310	Dec. 8	1425	368	33	1260
Sign. Metallic.....	D. A. Baker.....	333,274	Dec. 29	2924	765	33	1547
Sign or banner.....	M. R. Levy.....	323,696	Aug. 4	411	118	32	529
Sign. Revolving letter or character.....	J. Cragg.....	318,960	June 2	40	11	31	1056
Sign. Street.....	T. F. Adams.....	331,019	Nov. 24	2108	570	33	930
Sign. Street-lamp.....	W. P. Butler.....	323,850	Aug. 4	599	162	32	636
Sign. Transparent.....	G. H. Kitchen.....	313,343	Mar. 3	433	109	30	836
Signal:							
See Block and switch	Railway-station signal.						
signal.	Railway time-signal.						
Car-signal.	Railway train-signal.						
Electric signal.	Switch-signal.						
Fire-alarm signal.	Telephone-exchange sig- nal.						
Head-light signal.	Time-signal.						
Programme-signal.	Torpedo-signal.						
Railway-signal.							
Railway block-sig- nal.							
Signal.....	M. B. Mills and W. Hanley.....	323,949	Aug. 11	732	205	32	668
Signal-compensator.....	F. S. Guerber.....	330,632	Nov. 17	1863	503	33	876
Signal-light.....	C. Watts. (Reissue).....	10 565	Feb. 24	2153	325	30	709
Signal-light for vessels. Marine.....	G. T. Parry.....	328,059	Oct. 13	722	169	33	137
Signal-staff.....	G. F. Folsom.....	314,324	Mar. 24	1746	465	30	1187
Signal stations. Apparatus for weather.....	R. Hirsch.....	326,558	Sept. 22	1773	464	30	1165
Signal transmission. Circuit-changer for latent.....	F. B. Herzog.....	314,294	Mar. 24	1703	453	30	1119
Signal transmission. Latent.....	F. B. Herzog.....	314,293	Mar. 24	1700	453	30	1119
Signal-transmitter.....	J. C. Wilson.....	320,032	June 16	1456	363	31	1329
Signal transmitters. Automatic call for latent.....	F. B. Herzog.....	315,763	Apr. 14	1121	294	31	210
Signal transmitters. Bell for latent.....	F. B. Herzog.....	315,941	Apr. 14	1338	348	31	248
Signaling apparatus.....	A. Montenegro.....	330,723	Nov. 17	1724	465	32	851
Signaling apparatus.....	W. Neilson.....	318,015	May 19	1464	392	31	806
Signaling apparatus. Individual.....	E. F. Frost.....	320,923	June 30	2681	712	31	1569
Signaling device.....	J. D. Fee.....	332,336	Dec. 15	1598	420	33	1292
Silk fabrics. Machine for finishing.....	A. Crew.....	332,235	Dec. 15	1460	380	33	1273
Silk from the cocoon. Device for reeling.....	E. W. Serrell, Jr.....	317,222	May 5	402	101	31	297
Silk. Machine for throwing.....	J. E. Tynan.....	326,531	Sept. 15	1740	454	31	1510
Silk-reeling machines. Cocoon-holder for.....	E. W. Serrell, Jr.....	320,709	June 23	2406	637	31	327
Silk threads. Method of and device for testing the size of.....	E. W. Serrell, Jr.....	317,223	May 5	403	101	31	297
Silo.....	T. R. Carskadon.....	310,378	Jan. 6	290	80	30	56
Silo.....	W. E. Simonds.....	325,365	Sept. 1	192	48	32	1048
Silver-ware. Preventing tarnishing in.....	F. J. Blain and E. Rardon.....	312,954	Feb. 24	2032	30	746	

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drk.	Vol.	Page.
Single-acting engine	L. H. Nash	312,495	Feb. 17	1425	392	30	628
Single-acting engine	J. Richards	328,521	Oct. 20	1318	343	33	256
Single-acting engine	J. Richards	328,522	Oct. 20	1319	343	33	256
Single-tree. Hoisting	W. Loudon	315,423	Apr. 7	609	156	31	109
Single-tree straps. Die for	I. K. Campbell	313,966	Feb. 24	2040	557	30	749
Sink	J. B. Greene	330,892	Nov. 24	1949	528	33	890
Sink-cleaner	F. E. Allen	320,742	June 23	2442	647	31	1518
Sink, sideboard, &c. Combined	A. H. Juncos	312,999	Feb. 24	2087	569	30	757
Sink. Slop	S. G. McFarland	322,119	July 14	974	254	32	186
Sink-trap	A. Koegel	326,126	Sept. 15	1200	306	32	1250
Sink-valve	C. M. Tack	317,043	May 5	144	37	31	548
Siphon	J. Low	310,863	Jan. 13	895	242	30	175
Siphon	A. D. Stansbury	314,487	Mar. 24	1968	523	30	1167
Siphon. Flushing	H. C. Lowrie	310,529	Jan. 6	460	127	30	89
Siphon for ice-boxes and refrigerators	S. A. Suydam	322,992	July 28	2155	572	32	415
Siphon-head	P. E. Malmström and P. E. Dummer	327,402	Sept. 29	2950	770	32	1580
Siphon-motor. Hydraulic	A. Baloché and A. Krahness	317,074	May 5	188	47	31	557
Siphon-starter	L. Hirt	326,034	Sept. 8	1081	276	32	1221
Sirup and beer from maize. Making	A. E. Feroe	324,761	Aug. 18	1849	509	32	892
Sirup, &c. Heater and evaporator for	H. Ysaba y Lazarte and E. P. Larée	311,799	Feb. 3	437	118	30	430
Sirup-fountain	J. Brown	317,618	May 12	931	239	31	700
Sirup. Purifying maple	A. M. Bailey	323,254	July 28	2515		32	492
Skate	G. W. Baker	330,543	Nov. 17	1500	401	33	806
Skate	T. D. Davis	332,881	Dec. 22	2369	626	33	1441
Skate	M. C. Henley	320,352	June 16	1923	507	31	1411
Skate	C. H. Johnson	311,763	Feb. 3	304	107	30	422
Skate	C. W. King	331,977	Dec. 8	1089	223	33	1202
Skate	C. G. Lamont	321,564	Aug. 18	1569	433	32	830
Skate	W. A. Sutton	330,527	Nov. 17	1482	396	33	803
Skate	C. E. Wardwell	310,923	Jan. 20	982	267	30	195
Skate	S. Winslow	327,848	Oct. 6	443	115	33	78
Skate	S. Winslow	327,849	Oct. 6	445	116	33	78
Skate	C. O. Yale	321,412	June 30	3316	824	31	1666
Skate bottom. Roller	J. H. Fearis	323,135	July 28	2349	622	32	452
Skate caster. Roller	W. F. Cornelius	330,097	Nov. 10	918	238	33	666
Skate-clamp	J. C. Howe	315,623	Apr. 14	904	237	31	168
Skate-clamp	T. C. Merz	322,464	July 21	1421	372	32	275
Skate-clamp	E. C. Phillips	320,944	Nov. 10	707	181	33	644
Skate-clamp	S. Winslow	324,204	Aug. 11	1098	296	32	734
Skate clamp. Roller	N. A. Tanner	329,239	Oct. 27	2338	605	33	447
Skate. Convertible	T. S. Disston	329,146	Oct. 27	2205	571	33	422
Skate. Convertible	J. Lapp	330,133	Nov. 10	964	251	33	606
Skate. Convertible	F. A. Terherst	327,350	Sept. 29	2982	752	32	1568
Skate-fastener	H. F. Osborne	332,424	Dec. 15	1724	459	33	1319
Skate fastening. Roller	E. H. Barney	319,666	June 9	942	249	31	1231
Skate foot-plate	J. V. Rowlett	313,624	Mar. 10	799	209	30	935
Skate foot-plate. Roller	J. V. Rowlett	313,625	Mar. 10	799	210	30	935
Skate heel-plate	J. B. James, Jr.	324,115	Aug. 11	955	263	32	708
Skate. Roller	F. A. Bailey	332,181	Dec. 8	1385	358	33	1233
Skate. Roller	G. W. Baker	326,530	Sept. 22	1751	457	32	1361
Skate. Roller	G. W. Baker	326,540	Sept. 22	1752	457	32	1361
Skate. Roller	E. H. Barney	312,952	Feb. 24	2020	552	30	745
Skate. Roller	H. W. Barrows	326,260	Sept. 15	1399	364	32	1287
Skate. Roller	C. J. Becktel	321,337	June 30	3209	856	31	1666
Skate. Roller	C. J. Belknap and F. W. Wood	327,222	Sept. 29	2711	705	32	1540
Skate. Roller	G. P. Bosworth	331,470	Dec. 1	309	83	33	1053
Skate. Roller	L. P. Britt, Jr.	327,517	Oct. 6	9	2,3	33	4
Skate. Roller	I. F. Brown	321,931	July 7	715	186	32	130
Skate. Roller	W. P. Brown	330,093	Nov. 10	913	237	33	685
Skate. Roller	G. D. Burton	329,532	Nov. 3	151	38	33	534
Skate. Roller	G. D. Burton and G. W. Lord	317,501	May 12	781	199	31	673
Skate. Roller	M. Bye	332,049	Dec. 8	1195	312	33	1220
Skate. Roller	W. S. Canaday	327,523	Oct. 6	17	4	33	5
Skate. Roller	S. D. Castle	320,026	June 23	2304	608	31	1490
Skate. Roller	R. Chesnut	329,534	Nov. 3	153	38	33	534
Skate. Roller	J. S. Clawson	319,787	June 9	1106	294	31	1260
Skate. Roller	F. A. Combes	330,096	Nov. 10	917	238	33	686
Skate. Roller	C. M. Conradson	317,514	May 12	799	205	31	676
Skate. Roller	T. M. and T. M. Conner	322,350	July 14	1262	330	32	240
Skate. Roller	J. C. Cropper	314,916	Mar. 31	2557	616	30	1302
Skate. Roller	J. C. Cropper	332,189	Dec. 8	1391	360	33	1254
Skate. Roller	W. F. Cornelius	324,364	Aug. 18	1311	356	32	792
Skate. Roller	W. F. Cornelius	325,161	Aug. 25	2281	656	32	998
Skate. Roller	J. H. Davis	325,198	Oct. 13	896	233	33	170
Skate. Roller	P. J. Doherty	313,815	Mar. 10	1054	271	30	981
Skate. Roller	C. H. Doty	324,309	Aug. 11	1234	336	32	760
Skate. Roller	F. Drifill	316,342	Apr. 21	1871	495	31	101
Skate. Roller	W. H. Elliot	323,405	Aug. 4	30	8	32	628
Skate. Roller	J. H. Fenton	331,291	Dec. 1	51	12	33	1008
Skate. Roller	M. H. Fletcher	322,271	July 14	1157	303	32	220
Skate. Roller	O. V. and E. E. Flora	331,192	Nov. 24	2351	636	33	974
Skate. Roller	C. W. Foote	330,007	Nov. 10	793	203	33	650
Skate. Roller	W. H. Griffiths	329,829	Nov. 3	549	140	33	607
Skate. Roller	T. W. Grosvenor and W. B. Gray	322,371	July 14	1249	337	32	245
Skate. Roller	A. Hall	321,290	June 30	3155	841	31	1656
Skate. Roller	E. Hall	318,723	May 26	2399	640	31	989
Skate. Roller	E. Hall. (Reissue)	10,664	Nov. 24	2470	666	33	994
Skate. Roller	O. Hanson	321,434	July 7	97	7	32	8
Skate. Roller	D. A. Harris	326,734	Sept. 22	2049	533	32	1413
Skate. Roller	H. C. Hart	324,376	Aug. 18	1327	361	32	785
Skate. Roller	H. C. Hart	324,377	Aug. 18	1328	361	32	785
Skate. Roller	J. T. Henderson	321,968	July 14	767	200	32	147
Skate. Roller	M. C. Henley	316,266	Apr. 21	1771	466	31	334

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Skate. Roller.	M. C. Henley	310,712	June 9	1001	265	31	1242
Skate. Roller.	C. F. Hirt	320,556	Nov. 3	184	49	33	540
Skate. Roller.	C. F. Hirt	329,557	Nov. 3	186	50	33	540
Skate. Roller.	C. B. Hopkins	328,780	Oct. 20	1668	435	33	329
Skate. Roller.	F. B. Hunt	324,325	Aug. 11	1257	341	32	765
Skate. Roller.	F. W. Jackson	329,907	Nov. 10	655	168	33	634
Skate. Roller.	C. Johnson and L. W. Nuebling	331,302	Dec. 1	62	15	33	1010
Skate. Roller.	J. T. and C. T. Jones	322,611	July 21	1624	429	33	311
Skate. Roller.	J. D. Kefuss	326,224	Sept. 15	1344	348	32	1277
Skate. Roller.	W. Kelley	325,937	Sept. 8	947	240	32	1198
Skate. Roller.	D. E. Kempster	321,979	July 14	780	203	32	150
Skate. Roller.	B. Kindblade	329,913	Nov. 10	662	169	33	636
Skate. Roller.	A. L. Kitzelman	311,077	Jan. 20	1208	331	30	238
Skate. Roller.	A. L. Kitzelman	322,383	July 14	1306	341	33	248
Skate. Roller.	A. L. and D. M. Kitzelman	321,960	July 14	781	203	32	150
Skate. Roller.	C. P. Kramer and W. J. Snider	322,617	July 21	1630	431	32	312
Skate. Roller.	I. Lancaster	321,227	June 30	3077	817	31	1641
Skate. Roller.	L. M. Lawless	313,744	Mar. 10	959	248	30	964
Skate. Roller.	J. M. V. Long	325,214	Aug. 25	2460	676	33	1003
Skate. Roller.	N. H. Long	324,130	Aug. 11	978	269	32	712
Skate. Roller.	J. Lovett	311,841	Feb. 3	498	134	30	440
Skate. Roller.	J. Lucey	328,417	Oct. 13	1193	309	33	226
Skate. Roller.	S. C. Mendenhall	329,927	Nov. 10	679	174	33	639
Skate. Roller.	C. F. Miller	321,443	July 7	38	11	32	10
Skate. Roller.	F. C. Miller	329,580	Nov. 3	215	56	33	546
Skate. Roller.	F. C. Miller	329,581	Nov. 3	216	56	33	546
Skate. Roller.	F. C. Miller	329,582	Nov. 3	216	56, 57	33	546
Skate. Roller.	F. C. Miller	329,583	Nov. 3	217	57	33	546
Skate. Roller.	F. C. Miller	329,584	Nov. 3	218	57	33	546
Skate. Roller.	W. R. Mount	324,875	Aug. 25	2016	533	32	920
Skate. Roller.	H. Mueller	330,847	Nov. 17	1886	510	33	880
Skate. Roller.	T. Mulvin	330,041	Nov. 10	835	214	33	688
Skate. Roller.	T. Mulvin	332,277	Dec. 15	1519	398	33	1284
Skate. Roller.	J. A. Mundy	329,645	Nov. 3	571	145	33	611
Skate. Roller.	J. Naylor, Jr.	326,332	Oct. 13	1067	277	33	202
Skate. Roller.	I. P. Nelson	319,839	June 9	1182	319	31	1273
Skate. Roller.	F. J. Nelson and P. C. Donovan	332,278	Dec. 15	1521	398	33	1284
Skate. Roller.	H. Ogborn	322,846	July 21	1935	511, 512	33	369
Skate. Roller.	F. G. Osborn	327,819	Oct. 6	410	106, 107	33	72
Skate. Roller.	H. Owley and G. W. Marble	328,510	Oct. 20	1306	330	33	254
Skate. Roller.	W. H. Peterson and M. C. Henley	320,392	June 16	1968	523	31	1425
Skate. Roller.	C. M. Raymond	313,822	Mar. 10	796	209	30	934
Skate. Roller.	C. M. Raymond	316,600	Apr. 28	2300	604	31	436
Skate. Roller.	C. M. Raymond	318,291	May 19	1814	426	31	875
Skate. Roller.	W. H. and H. V. Rhoades	333,254	Dec. 29	2979	758	33	1542
Skate. Roller.	C. D. Rice	326,151	Sept. 15	1239	317	33	1258
Skate. Roller.	W. S. Rogers	327,411	Sept. 29	2063	773	32	1522
Skate. Roller.	D. A. Root	333,111	Dec. 8	1291	373	33	1237
Skate. Roller.	J. V. Rowlett (Reissue).	10,510	Mar. 10	1100	276	30	990
Skate. Roller.	J. V. Rowlett	327,066	Oct. 6	598	166	33	107
Skate. Roller.	J. V. Rowlett	328,070	Oct. 13	736	192	33	139
Skate. Roller.	M. Sholes	326,072	Oct. 13	738	192	33	140
Skate. Roller.	H. Thomas	332,460	Dec. 15	1704	462	33	1197
Skate. Roller.	G. H. Thompson	319,530	June 9	760	201	29	226
Skate. Roller.	J. H. Thompson	322,504	July 21	1489	391	32	1648
Skate. Roller.	J. A. Turnbull	321,261	June 30	3118	830	31	16
Skate. Roller.	F. W. Wall	321,466	July 7	80	21	32	16
Skate. Roller.	D. Walters	324,618	Aug. 18	1654	456, 457	32	846
Skate. Roller.	J. N. Ward	321,064	June 30	2879	765	31	1604
Skate. Roller.	E. V. Whitaker	330,672	Nov. 17	1629	438	33	833
Skate. Roller.	J. Wilkie	327,845	Oct. 6	440	115	33	77
Skate. Roller.	J. Williams	320,108	June 16	1563	412	31	1348
Skate. Roller.	C. G. Winfield	330,658	Nov. 17	1636	440	33	834
Skate. Roller.	L. M. Wisewell	311,936	Feb. 10	635	175	30	473
Skate. Roller.	L. D. York	320,993	June 30	2778	738	31	1586
Skate-roller	C. and E. J. Dalton	328,111	Oct. 13	790	206	31	1326
Skate-roller	W. Gardner	320,774	June 23	2482	657	31	1064
Skate-roller	J. Greacen	325,406	Sept. 1	259	64	32	920
Skate-roller	E. W. Otis	315,823	Apr. 14	1173	307	31	117
Skate-roller	A. G. Wicker	321,873	July 7	643	167	32	765
Skate-roller attachment	J. H. Jacoby	324,327	Aug. 11	1259	342	32	1287
Skate-sharpening	E. F. Watson	332,465	Dec. 15	1770	463	33	1277
Skate. Unicycle.	J. B. Elliott	314,812	Mar. 31	2414	638	30	899
Skate wheel. Roller.	G. O. Doynton	330,554	Nov. 17	1516	405	33	846
Skate wheel. Roller.	J. R. France	328,476	Oct. 20	1265	329	33	231
Skate wheel. Roller.	H. A. and H. A. House, Jr.	328,119	Oct. 13	799	208	33	1429
Skate wheel. Roller.	H. A. and H. A. House, Jr.	333,072	Dec. 22	2631	690	33	827
Skate wheel. Roller.	I. Smith	330,630	Nov. 17	1609	498	33	800
Skates. Ankle-support for.	E. G. Macomber	322,760	Aug. 4	415	119	32	600
Skates. Anti-friction bearing for roller.	G. D. Burton	329,435	Nov. 3	13	4	33	307
Skates. Anti-friction bearing for roller.	E. E. Edgerton	318,227	May 19	1750	468	31	882
Skates. Anti-friction bearing for roller.	J. E. Evans	316,431	Apr. 21	2001	526	31	374
Skates. Anti-friction bearing for roller.	W. S. Harmon	320,554	June 23	2206	583	31	1473
Skates. Implement for attaching washers on roller.	E. H. Barney	319,775	June 9	1083	298	31	1256
Skates. Machine for cleaning and repairing roller.	R. F. Hull	323,649	Aug. 4	403	115	32	398
Skates. Oil-drip washer for roller.	L. Steinberger	320,232	Oct. 27	2328	603	33	445
Skates. Stilt for roller.	M. Zack and F. Geraghty	327,374	Sept. 29	2910	759	32	1573
Skates. Stop attachment for roller.	J. P. Geran	322,173	July 14	1044	271	32	190
Skater's appliance	W. J. Cowing	320,462	June 23	2068	550	31	1261
Skater's appliance	L. D. Woodworth	329,969	Nov. 10	767	196	33	635
Skater's safety apparatus	A. Van Vleck	321,867	July 7	635	164	32	116

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Skating appliance.....	R. H. Rice.....	332,945	Dec. 22	2453	{ 648 649	{ 33	1458
Skating. Instructing beginners in roller.....	R. A. Johnston.....	330,493	Nov. 17	1439	384	33	795
Skating-rinks. Inclined floor or platform for.....	W. Staats.....	321,320	June 30	3190	851	31	1663
Skeleton furnace and steam-generator.....	L. A. Doble.....	324,461	Aug. 18	1438	303	32	805
Skid.....	J. M. Dawes.....	328,571	Oct. 20	1395	363	33	269
Skid. Barrel.....	A. U. Grummann.....	311,655	Feb. 3	258	71, 72	30	397
Skillet-cap.....	F. R. Wells.....	315,196	Apr. 7	305	73	31	54
Skimmer. Milk.....	M. C. Atkinson.....	333,098	Dec. 29	2674	701	33	1503
Skimmer. Milk.....	R. H. Stewart.....	333,484	Dec. 29	3199	836	33	1594
Skins. Graining.....	E. Schroeder.....	319,136	June 2	251		31	1093
Skins. Machine for plucking beaver and other.....	F. Peterhansl.....	331,906	Dec. 8	980	{ 253 254	{ 33	1182
Skins. Machine for softening sheep.....	H. R. Churchhill.....	327,138	Sept. 29	2600	677	32	1518
Skirt-protector.....	A. E. Sawyer.....	318,038	May 19	1495	401	31	814
Skirt protector. Lady's.....	C. A. Gandil.....	319,477	June 9	690	185	31	1185
Skylight.....	G. Hayes. (Reissue).....	10,581	Apr. 21	2003	526	31	374
Skylight.....	E. Henn.....	311,245	Jan. 27	1450	{ 395 306	{ 30	227
Skylight.....	B. Overman.....	326,056	Sept. 8	1109	{ 283 284	{ 32	1227
Skylight.....	B. Overman and W. H. O'Connor.....	315,958	Apr. 14	1366	353	31	253
Skylight.....	R. H. Reillé.....	311,784	Feb. 3	419	114	30	427
Skylight.....	J. Seton and W. Conolly.....	312,565	Feb. 17	1548	421	30	652
Skylight-bar. Metallic.....	G. Hayes. (Reissue).....	10,582	Apr. 21	2004	527	31	375
Skylight. Illuminating.....	T. J. Wilmer.....	333,270	Dec. 29	2921	764	33	1547
Skylights, &c. Construction of.....	A. Friedrick.....	320,235	June 16	1726	458	31	1378
Slag and matte pot.....	R. H. Terhune.....	323,541	Aug. 4	910	62	32	561
Slag-buggy.....	W. B. Deveroux.....	312,430	Feb. 17	1339	369	30	614
Slag-pot.....	R. H. Terhune.....	323,607	Aug. 4	925	84	32	576
Slags. Separating basic compounds from.....	G. Deumelandt.....	318,603	May 26	2245		31	960
Slat-fastening.....	S. P. Keith.....	322,382	July 14	1306	341	32	248
Slate-cleaner.....	A. B. Gates.....	330,312	Nov. 10	1188	317	33	740
Slate. Decorated.....	E. C. Carter.....	332,050	Dec. 8	1196	312	33	1221
Slate-dressing machine.....	F. R. Marks.....	330,248	Nov. 10	1102	322	33	723
Slate-dressing machine.....	A. H. Meyers.....	327,811	Oct. 6	401	105	33	70
Slate. Composition of matter for the production of.....	L. Kluober.....	314,968	Mar. 31	2222		30	1241
Slate for blackboards. Artificial or plastic.....	A. F. Parrshall.....	323,722	Aug. 4	449		32	606
Slate-frame.....	L. Kluober.....	323,614	Aug. 4	553	157	32	627
Slate-frame and pencil-case.....	J. H. Johnson.....	321,366	June 30	3234	689	31	1675
Slate, &c. Machine for channeling.....	J. Henwood.....	318,735	May 26	2413	643	31	992
Slate ruler attachment.....	J. R. Kennedy.....	320,142	June 16	1606	425	31	1355
Slate-ruling device.....	J. Shaver.....	328,525	Oct. 20	1328	344	33	257
Slate. School.....	E. L. Kraus.....	320,367	June 16	1941	511	31	1414
Slate. School.....	J. Manger.....	312,095	Dec. 8	1263	328	33	1232
Slate. School.....	E. J. Stewart.....	333,483	Dec. 29	3198	836	33	1594
Slate-shaving machine.....	R. A. Coffin.....	315,247	Apr. 7	376	92, 93	31	68
Slatings for black-beards, &c. Composition.....	W. P. Wise.....	314,636	Mar. 31	2165		30	1230
Sled.....	S. Baum.....	314,217	Mar. 24	1594	421	30	1090
Sled.....	A. M. Brundage.....	310,180	Jan. 6	27	7	30	7
Sled.....	P. Coy.....	325,658	Sept. 8	566	149	32	1131
Sled.....	P. H. Cummins.....	311,726	Feb. 3	343	95	30	413
Sled.....	A. Delkescamp.....	312,900	Feb. 24	2057	562	30	752
Sled.....	W. Haslup.....	314,837	Mar. 31	2447	646	30	1283
Sled.....	J. W. Russell.....	325,570	Sept. 1	475	118	32	1106
Sled.....	C. H. Welagerber, Jr.....	320,520	June 23	2161	{ 570 571	{ 31	1464
Sled.....	C. H. Welagerber, Jr.....	326,362	Sept. 15	1538	399	32	1313
Sled-brake.....	L. M. Bradbury, Jr.....	319,950	June 16	1347	354	31	1300
Sled-brake.....	B. P. Pott.....	319,022	June 2	110	30	31	1068
Sled. Coasting.....	G. W. Martin.....	312,646	Feb. 24	1622	446	30	675
Sled-knee.....	O. A. Sathe.....	327,626	Oct. 6	420	109	33	74
Sled. Iron.....	W. L. Brown.....	312,964	Feb. 24	2038	556	30	749
Sled-propeller.....	J. Loose.....	322,415	Oct. 13	1192	{ 308 309	{ 33	225
Sled-propeller.....	G. T. Sampson.....	312,388	Feb. 17	1272	351	30	601
Sled-propeller.....	J. Wissen.....	314,210	Mar. 17	1582	419	30	1087
Sled-runner.....	V. D. Johnson.....	331,303	Dec. 1	64	15, 16	33	1011
Sled. Wheel.....	N. Harper.....	315,616	Apr. 14	896	225	31	166
Sleep. Device for inducing.....	F. W. Paul.....	313,516	Mar. 10	661	172	30	908
Sleeper for permanent ways.....	P. Kirk.....	326,674	Sept. 22	2246	585	32	1448
Sleeve. Garment.....	G. S. Gates.....	323,506	Aug. 4	163	48	32	553
Sleeve. Garment.....	C. H. Ostrander.....	332,553	Dec. 15	1909	499	33	1350
Sleeve, hose, and garment supporters. Attachment for.....	C. J. Haley.....	320,469	June 23	2096	553	31	1452
Sleeve-supporter.....	G. Frost.....	313,584	Mar. 10	745	196	30	925
Sleeves of garments. Device for holding.....	S. H. Whiting.....	316,712	Apr. 28	2399	625	31	454
Sleigh.....	J. M. Barnes.....	322,085	July 14	927	240	32	177
Sleigh.....	P. Hilger.....	327,168	Sept. 29	2642	687	32	1525
Sleigh. Bob.....	I. Bronson.....	327,227	Sept. 29	2716	707	32	1540
Sleigh. Bob.....	S. M. Crites.....	310,881	Jan. 20	921	251	30	186
Sleigh. Bob.....	J. Horey and C. Marsh.....	333,224	Dec. 29	2252	746	33	1534
Sleigh. Bob.....	J. Roraback.....	312,386	Feb. 17	1267	350	30	600
Sleigh-knee.....	A. S. Larson.....	324,567	Aug. 18	1573	434	32	831
Sleigh-knee.....	J. Parkhill.....	331,537	Dec. 1	399	107	33	1070
Sleigh-runner.....	J. L. Mason.....	323,177	July 28	2407	639	32	462
Sleigh-runner.....	G. W. Thompson.....	323,234	July 28	2488	661	32	476
Sleigh-shoe.....	I. B. Seely.....	335,426	Dec. 29	3122	815	33	1581
Slicer.....	D. J. Gilchrist.....	322,175	July 14	1046	271	32	198
Slide-seat.....	J. Fitzgerald.....	331,046	Nov. 24	2158	580	33	936
Sliding gate.....	W. W. Graves.....	317,765	May 12	1115	294	31	735
Sling.....	I. W. Cooper.....	316,525	Apr. 28	2131	561	31	405
Sling. Self-adjusting chain.....	W. Smith.....	322,350	Oct. 13	1086	283	33	207
Sludge-box.....	H. R. Sillman.....	322,227	Oct. 27	2322	{ 601 602	{ 33	444

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Small-arm. Breech-loading.	H. Tolley	315,858	Apr. 14	1921	319	31	229
Smelting and calcining lead and other ores. Apparatus for	E. R. Moffet	329,199	Oct. 27	2282	591	33	436
Smelting-furnace.	C. E. Ashcroft	314,557	Mar. 31	2059	550	30	1211
Smelting-furnace.	E. G. Smith and C. Bell	316,669	Apr. 28	2313	607	31	439
Smelting-furnace. Electric.	E. H. and A. H. Cowles	319,945	June 9	1334	351 352	31	1299
Smelting ores	M. D. Brett	320,908	June 30	2663	708	31	1566
Smelting ores by the electric current	E. H. and A. H. Cowles	319,795	June 9	1117	286	31	1261
Smoke-burning appliance for steam-boilers	C. J. Bruschke	322,894	July 28	2013	531	32	388
Smoke-consumer	E. E. Hedley	317,775	May 12	1128	286	31	738
Smoke-consumer	J. H. Shank	323,217	July 28	2467	656	32	473
Smoke-consumer for furnaces	J. Donovan	329,027	Oct. 27	2037	529	33	393
Smoke-consumer for locomotives, stationary boilers, furnaces, and stoves.	H. A. Spear and A. P. Wight, Jr.	310,920	Jan. 20	978	268	30	154
Smoke-consuming attachment for lamp and other chimneys.	C. Martin	312,368	Feb. 17	1248	344	30	585
Smoke-consuming furnace	C. C. Carter	324,532	Aug. 18	1535	423 424	32	622
Smoke-consuming furnace	F. B. Giesler	313,071	Mar. 3	44	12	30	786
Smoke-consuming furnace.	F. B. Giesler. (Reissue)	10,639	Aug. 25	2479	681	32	1007
Smoke-consuming furnace.	H. B. Greve	325,207	Aug. 25	2449	674	32	1001
Smoke-consuming furnace	A. T. Kinney	315,145	Apr. 7	216	53	31	39
Smoke-consuming furnace	O. D. Orvis	313,611	Mar. 10	781	205 206	30	931
Smoke-house	J. Kremer	325,417	Sept. 1	271	67	32	1066
Smoke-house	N. Murphy	324,408	Aug. 18	1372	373	32	794
Smoke-house	J. Price	327,453	Sept. 29	3010	768	32	1590
Smoke-preventing furnace	D. Davis	317,522	May 12	807	207	31	678
Smoke-preventing furnace	G. Farr and A. B. Seward	317,935	May 12	1343	361	31	779
Smoke-stack	H. C. Simpson	312,912	Feb. 24	1971	539	30	738
Smut-mill	J. Fitz	325,066	Aug. 25	2267	622	32	967
Snap. Harness.	J. Gibbons	322,438	July 21	1320	362	32	988
Snap-hook	F. Armstrong	311,941	Feb. 10	642	178	30	476
Snap-hook	T. Beecher	322,674	July 21	1700	451	32	326
Snap-hook	C. Blanchard	321,060	June 30	2897	770	31	1608
Snap-hook	J. C. Covert	318,545	May 26	2182	584	31	949
Snap-hook	G. W. Giffard	311,427	Jan. 27	1710	465	30	334
Snap-hook	G. W. Giffard	310,972	June 16	1377	361	31	1315
Snap-hook	J. B. Keefe	315,796	Apr. 14	1139	298	31	214
Snap-hook	W. H. McGrew	332,415	Dec. 15	1710	448	33	1317
Snap-hook	E. J. Miller	327,008	Sept. 29	2496	634	32	1468
Snap-hook	C. D. Murphy	314,867	Mar. 31	2489	660	30	1291
Snap-hook	D. W. Palmer	320,165	June 16	1633	434	31	1361
Snap-hook	G. D. Spielman	311,791	Feb. 3	427	116	29	428
Snap-hook	G. D. Spielman	330,437	Nov. 17	1365	363	33	720
Snap-hook	H. S. Stapler	318,817	May 26	2534	676	31	1012
Snap-hook for reins	F. H. Chapman	319,500	June 9	801	212	31	1305
Snap-hook	G. M. Jewett	316,269	Apr. 21	1777	468	31	335
Snow and ice. Combined implement for removing.	L. L. Maillet	314,592	Mar. 31	2101	560	30	1219
Snow and ice from sidewalks. Machine for removing	E. R. Angell	322,633	Oct. 20	1492	388	33	226
Snow-clearer	W. A. Greenlees	333,006	Dec. 22	2542	670	33	1474
Snow-drifts in road-cuts, &c. Device for preventing	W. T. and W. H. Steiger	319,143	June 2	257	67	31	1064
Snow-excavator. Railway	J. N. Butler	332,876	Dec. 22	2364	625	33	1440
Snow from railway-tracks. Apparatus for removing.	W. Briscoe and C. Gallagher	314,790	Mar. 31	2328	631 632	30	1272
Snow-melting and ground-heating machine	C. G. Waterbury	328,367	Oct. 13	1115	282	33	211
Snow-plow	J. Franz	323,656	Aug. 4	362	103	32	590
Snow-plow	E. Hand	325,075	Aug. 25	2277	626	32	969
Snow-plow	P. O. King	321,301	June 30	3167	844	31	1658
Snow-plow	J. G. Kuhlmann	323,043	July 28	2229	589	32	427
Snow-plow	J. Palmer	328,805	Oct. 20	1700	443	33	325
Snow-plow	E. Payne	322,849	July 21	1940	513	32	368
Snow-plow	J. E. Twinn	331,849	Dec. 8	897	231 232	33	1166
Snow-plow	J. Wackerman	325,029	Aug. 25	2217	608 609	32	957
Snow-plow	A. J. Witt	328,993	Oct. 27	1964	516	33	323
Snow-plow flange	I. P. Kilgore	332,348	Dec. 15	1613	423	33	1301
Snow-plow rail-clearer	A. F. Priest	326,917	Sept. 22	2304	603	32	1458
Snow-plow. Railway	G. W. Hopkins	316,972	May 5	54	14, 15	31	322
Snow-plow with snow-cutters	G. V. Benjamin	328,640	Oct. 20	1501	391	33	267
Snow-scraper	G. A. Birch	323,491	Aug. 4	137	41	32	547
Snow-scraper	A. J. Phillips	323,730	Aug. 4	456	129	32	608
Snow-scraper and compressor. Combined	B. F. Leeds	323,433	Aug. 4	64	16	32	535
Snow-shovel	H. D. Waite	321,326	June 30	3198	833	31	1664
Snow-shovel	C. Watson and C. E. Adams	316,509	Apr. 28	2116	556	31	401
Soap	J. Hoagland and B. Zipfel	314,447	Mar. 24	1901	.....	30	1158
Soap. Apparatus for remelting.	J. C. Ralston	328,714	Oct. 20	1598	416	33	305
Soap composition	E. Schaal	319,554	June 9	1199	.....	31	1276
Soap composition	H. Zahn	311,555	Feb. 3	136	.....	30	374
Soap for restoring color to plushes, velvets, &c	A. Kendall	319,097	June 9	204	.....	31	1085
Soap-holder	G. H. Allen	312,601	Feb. 24	1567	429	30	665
Soap-holder	C. A. Bryant	316,734	Apr. 28	2433	633	31	460
Soap. Manufacture of	W. A. Grant	332,606	Dec. 15	1982	519	33	1364
Soap-manufacturing machine	W. A. Grant	332,605	Dec. 15	1980	518	33	1364
Soap-molding machine	C. E. Whitaker	313,584	Mar. 10	718	188 189	30	920
Soap. Remelting.	J. C. Ralston	328,611	Oct. 20	1450	378	33	279
Soap under pressure. Apparatus for boiling	B. T. Babbitt	330,683	Nov. 17	1643	442	33	636
Sockets. Machine for making tapered threaded.	M. Blakey	312,700	Feb. 24	1694	466	30	627
Sockets. Tap for screw-threading	H. R. Borie	332,761	Dec. 22	2232	588	33	1417
Sod cutter and pulverizer.	J. R. Phillips	322,638	July 21	1655	437	32	317

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Soda. Apparatus for making granulated crystalline carbonate of	J. Mactear	316,277	Apr. 21	1791	470	31	339
Soda. Apparatus for the recovery of	F. A. Cloudman	319,953	June 16	1353	355	31	1311
Soda from slags. Extraction of phosphate of.	L. Imperatori	324,471	Aug. 18	1450		32	867
Soda. Grinding caustic.	C. S. mper	318,044	May 19	1502		31	815
Soda. Ice-cream	J. W. Black	332,134	Dec. 8	1323		33	1242
Soda in combination with zinc oxide, &c. Treating silicate of	C. S. Lockwood and J. H. Hyatt	317,388	May 5	020		31	636
Soda. Purifying ammonia	H. Gaskell, Jr.	326,423	Sept. 15	1604	418	33	1326
Soda-water apparatus	G. A. Spring	330,167	Nov. 10	1006	263	33	734
Soda-water apparatus	F. R. H. Thomas	312,588	Feb. 17	1550	422	30	653
Soda-water apparatus. Fitting for	A. D. Puffer	323,583	July 28	2706	720	32	515
Soda-water. Apparatus for dispensing	C. Adams	316,594	Apr. 28	2219	584	31	422
Soda-water apparatus. Sirup-pump for.	A. E. Rich	327,523	Oct. 6	121	28	33	23
Soda-water draft-tube	J. C. Miller	332,731	Dec. 22	2168	572	33	1404
Soda-water machines. Safety-cap for gas-generators for	J. Conner and G. Matthews, Jr.	328,008	Oct. 13	654	172	33	125
Sodium carbonate. Making	A. Kayser	320,256	June 16	1750		31	1382
Sodium sulphite. Making	E. Carey, H. Gaskell, Jr., and F. Hurter	321,341	June 30	3213	857	31	1667
Sofa	F. Koskel	323,872	Aug. 4	627	176	32	641
Soil beneath the surface. Machine for packing	B. F. Waggoner	320,263	Oct. 13	975	254	33	185
Soil dressing machine	I. W. Boatman	319,949	June 16	1345	354	31	1309
Solar cameras. Adjustment for.	W. C. Strong	315,450	Apr. 7	642	160	31	114
Solder. Machine for making wire	E. L. Young and L. Dyer	312,598	Feb. 17	1563	426	30	655
Solder-mold	M. J. Stark	325,704	Sept. 8	654	165	32	1142
Soldering cans. Machine for	B. Price	331,909	Dec. 8	985	253	33	1182
Soldering-clamp	S. Bull	325,497	Sept. 1	375	92	32	1087
Soldering-clamp. Spectacle-frame	J. H. Scribner	324,276	Aug. 11	1190	327	32	752
Soldering eaves-troughs. Clamp for	S. Yates	326,372	Sept. 15	1548	402	32	1316
Soldering-fluid	C. N. Waite	325,570	Sept. 1	484		32	1108
Soldering-forceps	E. Q. Crane	328,467	Oct. 20	1255	326	33	244
Soldering-iron	J. A. Boatwick. (Reissue)	10,679	Dec. 15	2107	556	33	1387
Soldering-iron	R. W. Coffee	325,158	Aug. 25	5377	655	32	988
Soldering-iron	B. J. Hoffacker	319,904	June 9	1275	336	31	1289
Soldering-iron	G. Oulton	327,596	Oct. 6	501	130	33	90
Soldering-iron	G. W. Wilkinson	312,941	Feb. 24	2008	549	30	743
Soldering-iron heater	J. S. Hull	328,406	Oct. 13	1179	305	33	223
Soldering-iron heater	C. L. Riker	323,534	Aug. 4	197	58	32	559
Soldering. Lacquer for use in	W. Rosenberg	319,128	June 2	243		31	1092
Soldering-machine	E. Norton	322,065	July 14	901	233	32	172
Soldering machine. Can	G. Ackermann	315,877	Apr. 14	1245	325	31	272
Soldering machine. Can	D. Klump	314,536	Mar. 24	2027	541	30	1178
Soldering machine. Can	F. M. Leavitt	320,663	June 23	2350	621	31	1499
Soldering machine. Can	W. H. H. Stevenson	325,130	Aug. 25	2346	646	32	962
Soldering-pan	T. Leslie	313,218	Mar. 3	261	65	30	825
Soldering the seams of sheet-metal cans. Apparatus for automatically	G. H. Perkins and O. Smith	314,468	Mar. 24	1926	515	30	1162
Soldering-tool	J. Mactear	316,278	Apr. 21	1793	471	31	338
Sole-channeling machine	J. E. Jackson	321,032	June 30	2829	752	31	1596
Sole. Detachable	M. Howe	333,126	Dec. 29	2718	714	33	1511
Sole-edge-trimming tool	C. W. Wilson	314,898	Mar. 31	2535	670	30	1298
Sole-fastener	A. Van Wagenen	331,925	Dec. 8	1015	263	33	1188
Sole-fastener	A. Van Wagenen	331,926	Dec. 8	1015	263	33	1188
Sole-laying machine	P. A. Coupal	315,913	Apr. 14	1306	340	31	242
Sole-laying machine	A. Eppler, Jr.	315,922	Apr. 14	1316	343	31	244
Sole-laying machine	A. Eppler, Jr.	315,923	Apr. 14	1318	343	31	245
Sole-laying machine	A. Eppler, Jr.	315,924	Apr. 14	1320	343	31	245
Sole-laying machine	C. D. Wood	328,446	Oct. 13	1230	319	33	233
Sole-nailing machine	F. F. Raymond, 2d	322,562	July 21	1554	410	32	298
Sole or heel fastening	F. F. Raymond, 2d	329,952	Nov. 10	720	183	33	646
Sole-protector	J. F. Pratt	327,104	Sept. 29	2681	696	32	1533
Sole. Reversible cork	D. S. Ycoman	312,544	Feb. 17	1497	408	30	642
Sole-skiver	J. Kirwan	328,317	Oct. 13	1043	269	33	197
Sole-trimming cutter. Telescopic rotary	E. F. White	324,345	Aug. 11	1285	348	32	769
Sole-trimming machine	A. F. Smith	325,703	Sept. 8	654	165	32	1142
Soles and uppers. Machine for uniting	S. W. Robinson and O. E. Lewis	319,127	June 2	242	63	31	1092
Soling. Roll for making india-rubber	L. Elliott	315,262	Apr. 7	391	97	31	71
Sonometer	E. S. Ritchie	322,010	July 14	824	216	32	158
Soot-consumer and spark-arrester	J. Gogerty	331,785	Dec. 8	803	204	33	1149
Sorghum-evaporator	D. Jr. and S. Rather	312,510	Feb. 17	1454	398	30	634
Soundings apparatus	J. B. Hannay	331,133	Nov. 24	2263	615	33	958
Soundings rod	H. Case	317,089	May 5	210	53	31	561
Soundings. Apparatus for taking	H. Schoening	327,726	Oct. 6	298	76	33	52
Sower. Broadcast seed	L. Eberhart and I. D. Stevens	316,019	Apr. 21	1445	377	31	275
Sower. Broadcast seed	S. and M. Freeman	321,706	July 7	398	106	32	74
Sower. Broadcast seed	H. A. Gore	315,405	Apr. 7	578	149	31	104
Sower. Broadcast seed	O. F. Heartwell, Jr.	319,411	June 2	580	158	31	1158
Sower. Force-fed seed	H. Amundson and F. J. Henrichsen	321,878	July 7	648	108	32	118
Sower, land-roller, and double revolving harrow. Broadcast	D. F. Wegner	314,765	Mar. 31	2350	622	30	1265
Sower. Seed	H. Amundson and F. J. Henrichsen	321,879	July 7	649	168	32	118
Sower. Seed	H. J. Foster	321,703	July 7	394	105	32	74
Sower. Seed	G. E. Kaltmeyer	319,586	June 9	838	222	31	1211
Sower. Seed	J. Price	317,013	May 5	111	28	31	542
Sower. Seed	F. Revner	331,547	Dec. 1	411	110	33	1072
Sower. Two-row seed	E. C. Ellwood	319,211	June 2	330	88, 89	31	1109
Sower. Wheelbarrow grass-seed	G. V. H. Whitbeck	313,565	Mar. 10	721	189	30	921
Sowing and harrowing seed. Machine for	W. Ingalls	322,488	Oct. 20	1278	332	33	248
Sowing device. Phosphate	E. Rubland	314,365	Mar. 24	1660	441	30	1111

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Sowing fertilizing material. Machinery for	F. O. Wellington	319,155	June 2	270	71	31	1097
Sowing-machine	T. D. Galloway	331,099	June 30	2925	774	31	1619
Spado	G. J. Dickson	316,014	Apr. 21	1438	375	31	274
Spading-machine	W. E. Depp	332,703	Dec. 22	2133	563	33	1267
Spanner	J. C. Bauer	313,571	Mar. 10	727	191	30	922
Spark and cinder arrester	T. H. Huberkorn	310,819	Jan. 13	841	928	30	165
Spark-arrester	H. E. Bradley	317,290	May 5	493	124	31	613
Spark-arrester	F. S. Bragg	325,907	Sept. 8	914	220	32	1191
Spark-arrester	C. S. Colville	319,457	June 9	650	177	31	1179
Spark-arrester	J. C. Courtney and J. W. Nelson	327,531	Oct. 6	36	8	33	8
Spark-arrester	J. Ela	316,022	Apr. 21	1448	378	31	276
Spark-arrester	D. Groesbeck, C. A. Ball, and J. A. Sterling	324,683	Aug. 18	1747	461	32	83
Spark-arrester	G. D. Hunter	312,722	Feb. 24	1734	473	30	693
Spark-arrester	F. F. Landis	332,260	Dec. 15	1498	392	33	1240
Spark-arrester	J. W. Maloney	314,254	Mar. 24	1043	435	30	1108
Spark-arrester	J. W. Maloney	331,072	Nov. 24	2168	539	33	942
Spark-arrester	F. Mannal	332,724	Dec. 22	2160	570	33	1402
Spark-arrester	W. Meier	318,573	May 26	2213	501	31	954
Spark-arrester	F. Mertsheimer	328,962	Oct. 27	1933	504	33	74
Spark-arrester	J. S. Park	312,829	Feb. 24	1945	533	30	732
Spark-arrester	J. M. Pitcher	330,430	Nov. 17	1344	358	33	777
Spark-arrester	G. Saltzman	331,080	Nov. 24	2199	595	33	947
Spark-arrester	P. E. Smith	328,019	Oct. 20	1719	447	33	229
Spark-arrester	T. Thornton	332,628	Dec. 15	2007	526	33	1369
Spark-arrester	J. Westinghouse	327,366	Sept. 29	2002	757	32	171
Spark-arrester and consumer	C. B. Lovelass	314,697	Mar. 31	2235	504	30	1343
Spark arrester and consumer. Locomotive	G. H. Griggs	316,892	Apr. 23	2647	690	31	500
Spark-arrester and smoke-consumer	J. G. Nessel and W. H. Steinbrecher	326,671	Sept. 22	1928	568	32	122
Spark-extinguisher	I. Deyell	310,565	Jan. 13	522	143	30	106
Spark-extinguisher	G. D. Hunter	320,875	June 23	2009	691	31	1549
Spars. Re-enforcing band for	J. W. Ketcham	314,535	Mar. 24	2026	540	30	1172
Speaking-tube	J. A. Kessel	326,568	Sept. 22	1785	478	33	1378
Speaking-tube	P. Pereira y Albizu	326,450	Sept. 15	1636	428	32	1322
Specific-gravity apparatus. Automatic	G. A. Bobrick	324,808	Aug. 25	1922	529	33	962
Spectacle and eyeglass frame	L. Lazarus	319,733	June 9	1030	273	31	1247
Spectacle-case	J. A. Pattee	313,762	Mar. 10	988	255	30	969
Spectacle-case	G. H. Striker	326,065	Sept. 8	1126	226	32	1220
Spectacle-frame	S. Z. De Ferranti	327,145	Sept. 29	2612	681	32	1520
Spectacle-holder clasp	W. Wilcox	328,369	Oct. 13	1119	229	33	212
Spectacle nose-guard	T. P. Hubbard	319,977	June 16	1386	364	31	1316
Spectacle-templates. Making	F. A. Clark	328,920	Oct. 27	1867	427	33	362
Spectacles	D. V. Brown	316,873	Apr. 28	2624	684	31	465
Spectacles	E. B. Meyrowitz	329,474	Nov. 3	67	18	33	517
Spectacles	W. H. Pockham	328,513	Oct. 20	1309	310	33	255
Spectacles and eyeglasses. Bifocal lens for	G. W. Wells	319,153	June 2	267	71	31	1026
Spectacles and watch-maker's eyeglass. Combined	G. H. Hull	320,558	June 23	2200	564	31	1473
Spectacles and watch-maker's eyeglass. Combined	G. H. Hull	331,791	Dec. 8	810	206	33	1150
Spectacles. Microphotographic attachment for	R. Galland-Mason	310,401	June 2	566	154	31	1130
Speculum	G. D. Bailly	325,647	Sept. 8	578	146	33	1136
Speculum	J. G. Ellis	326,856	Sept. 22	2224	580	32	1444
Speculum. Anal	A. B. Botsford	315,466	Apr. 14	674	175	31	128
Speculum. Rectal	W. M. Baldwin, Jr.	321,334	June 30	3206	855	31	1666
Speculum. Rectal	L. J. Ingersoll, Jr.	314,132	Mar. 17	1493	369	30	1071
Speculum. Rectal	F. B. Ives	312,123	Feb. 10	896	244	30	522
Speculum. Rectal	L. B. Sperry	328,619	Oct. 20	1467	322	33	228
Speculums. Electric-light attachment for	C. Smith	322,453	Dec. 15	1758	400	33	1235
Speed-changing device	J. S. Price	320,687	June 23	2562	630	31	1505
Speed-changing mechanism	B. B. Powell	324,955	Aug. 25	2119	579	32	940
Speed. Gearing for changing	E. J. Corser	313,711	Mar. 10	910	227	30	856
Speed-governor	G. W. Anderson	310,167	Jan. 6	7	3	30	4
Speed-governor	R. McKenna	326,881	Sept. 22	2254	587	32	1450
Speed-governor	J. Morton	326,235	Sept. 15	1357	351	32	1279
Speed-governor	E. Penney	322,637	July 21	1653	437	32	316
Speed-indicator	H. Tabor	325,991	Sept. 8	1022	260	32	1211
Speed-indicator for shafts, pulleys, and axles	S. C. Shepard	324,042	Aug. 11	858	228	32	690
Speed-regulator	A. R. Corson	314,228	Mar. 24	1610	435	30	1108
Spelt. Preparing and curing	H. Lorch	318,768	May 26	2464	511	30	671
Spelter-furnaces. Preparing the charge for	E. Phillips and T. Jones	323,939	Aug. 11	747	208	33	627
Sphere. Terrestrial-siderial	J. G. and M. L. Berneike	320,999	June 30	2785	740	31	1647
Spider	H. C. Whitten	323,894	Aug. 4	661	186	32	1231
Spigot and faucet	J. H. O'Connor	326,448	Sept. 15	1635	428	32	1361
Spigot for beer. Try	M. Hey	320,252	June 16	1745	464	31	978
Spigot. Measuring	J. W. Wilt	322,876	July 21	1979	524	32	812
Spike	T. A. Davies	330,567	Nov. 17	1529	409	33	721
Spike-blank	H. Greer	312,840	Feb. 24	1884	516	30	781
Spike-blank	W. Koplin	326,298	Sept. 15	1451	378	32	1288
Spike-extractor	A. W. McCaslin	317,163	May 5	321	80	31	581
Spike-extractor	J. Sloop	322,133	July 14	992	258	32	1180
Spike-machine	J. H. Alker	315,693	Apr. 14	988	259	31	162
Spike-machine	W. Koplin	319,587	June 9	840	222	31	1212
Spikes. Roll for making	H. W. Fowler	317,330	May 5	550	141	31	684
Spile. Sap	C. Mattice	323,704	Aug. 4	418	120	32	601
Spile. Sheet-iron lock-joint	H. C. Herron	325,172	Aug. 25	2397	659	32	891
Spiling for wharves and bridges. Compound	J. Elmer	319,471	June 9	678	182	31	1153
Spindle							
See Loom-shuttle spindle.							
Spindle	S. S. Webber	328,096	Oct. 13	770	201	33	14

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Drk.	Vol.	Page
Spindle and bearing.	W. T. Carroll.	332,992	Dec. 23	2595	666	33	1470
Spindle and bearing.	W. F. Draper.	328,201	Oct. 13	900	234	33	171
Spindle and bearing.	L. D. Van Valkenburgh.	344,900	Aug. 25	9050	560	32	926
Spindle and bearing therefor.	J. B. and T. H. Dewhurst and R. Cornthwaite.	310,758	Apr. 28	2466	643	31	466
Spindle and filer for spinning hemp, &c.	J. Good.	317,118	May 5	252	63	31	569
Spindle and filer for spinning rope-yarn.	J. Good.	317,116	May 5	245	61, 62	31	568
Spindle-bearing.	W. F. Draper.	316,016	Apr. 21	1441	376	31	274
Spindle-bearing for mules and jacks.	J. T. Meats.	324,866	Aug. 25	2004	550	32	918
Spindle-bolster.	W. T. Carroll.	327,135	Sept. 29	2598	677	32	1517
Spindle-bolster.	W. T. Carroll.	333,056	Dec. 22	2608	683	33	1485
Spindle-bolster.	H. P. Chase.	327,137	Sept. 29	2600	677	32	1518
Spindle-bolster.	R. C. Fay.	332,067	Dec. 8	1250	318	33	1225
Spindle-steps. Setting.	F. H. Colony.	332,328	Dec. 15	1586	416	33	1296
Spindle-support.	R. C. Fay.	332,068	Dec. 8	1221	319	33	1225
Spindle-supporting bolster and step.	J. Booth.	310,871	Jan. 20	910	248	30	183
Spindles on jennies. Safety-lock for.	M. Furst.	323,315	July 28	2610	694	32	498
Spinning and doubling yarn. Machine for.	W. Lancaster.	326,300	Sept. 15	1455	379	32	1298
Spinning and twisting machine.	L. Binns.	322,675	July 21	1701	451	32	326
Spinning and twisting machine.	W. T. Carroll.	310,008	Apr. 21	1430	372	31	272
Spinning and twisting machine.	G. M. Whitin.	318,405	May 19	1978	532	31	904
Spinning and twisting machines, &c. Drawing mechanism for.	E. E. Baker.	326,538	Sept. 22	1750	457	32	1361
Spinning and twisting machines. Spindle and bolster for.	J. J. Sumner.	322,654	July 21	1674	444	32	320
Spinning and twisting machines. Spindle for cap.	W. Wardman.	328,733	Oct. 20	1623	423	33	310
Spinning cotton yarn. Machinery for.	T. T. Abbot.	317,607	May 12	915	234	31	697
Spinning-frame.	R. Wright.	318,936	May 26	2687	719	31	1040
Spinning-frame. Ring.	C. H. Chapman.	327,862	Oct. 6	462	120	33	82
Spinning-frame stop-motion.	L. L. Swatt.	314,153	Mar. 17	1514	397	30	1075
Spinning-frames, &c. Device for removing pressure from rolls of.	E. W. Thomas.	329,975	Nov. 10	747	191	33	651
Spinning-frames. Guide-board for.	J. Barker.	325,307	Sept. 1	105	99	32	1035
Spinning-frames. Thread-guard for.	W. H. Rivers.	324,730	Aug. 18	1807	499	32	875
Spinning-frames. Traveler-clearer for ring.	J. W. Wattles.	328,989	Oct. 27	1977	513	33	382
Spinning hemp, &c. Machine for.	A. L. Tubbs.	325,368	Sept. 1	184	49	32	1049
Spinning-machine.	J. Cuthbertson.	326,900	Sept. 22	2285	597	32	1455
Spinning-machine.	A. B. Edmonds.	317,523	May 5	536	136	31	622
Spinning-machine.	P. Fleury.	324,931	Aug. 25	2086	571	32	934
Spinning-machine.	E. Thomas.	318,522	May 26	2137	575	31	943
Spinning-machine. Ring.	C. H. Chapman.	316,603	Apr. 28	2229	567	31	424
Spinning-machine spindle-support.	W. T. Carroll.	329,014	Oct. 27	2020	524	33	290
Spinning-machine, &c. Top-roll for.	G. O. Boynton and G. Stephen.	321,574	July 7	228	61	32	45
Spinning-machines. Cap-bar support for.	W. Mason.	318,385	May 19	1951	526	31	899
Spinning-machines. Lever-screw for holding weight-levers of rolls of.	T. H. Speakman.	316,197	Apr. 21	1664	441	31	319
Spinning-machines. Roving traverse motion of.	W. Mason.	311,193	Jan. 27	1374	376	30	274
Spinning-machines, &c. Top roll for.	W. T., E. J., and E. H. Carroll.	320,333	June 16	1889	496	31	1405
Spinning machinery. Top roll for.	D. Jackson.	327,671	Oct. 6	256	64	33	45
Spinning-mule.	E. A. Baldwin.	331,112	Dec. 1	4	2	33	1001
Spinning-mule.	E. A. Baldwin.	331,368	Dec. 1	158	40, 41	33	1026
Spinning-mule.	E. C. A. Masson.	317,397	May 5	631	161	31	638
Spinning-mules or frames. Sliver trumpet or guide for.	E. Rounds.	325,700	Sept. 8	640	163	32	1140
Spinning-mules. Revolving sweeping attachment for.	C. Ashworth.	329,117	Oct. 27	2166	561	33	415
Spinning ring and traveler.	H. L. Hayden.	327,550	Oct. 6	65	15	33	13
Spinning-rings. Machine for making.	C. F. Roper.	323,256	Dec. 29	2600	759	33	1548
Spinning. Speeder for.	F. J. Dutcher.	332,194	Dec. 8	1398	361	33	1255
Spinning-spindle bolster.	C. H. Chapman.	327,863	Oct. 6	463	120	33	82
Spiral springs. Machine for making.	E. A. Jones.	317,543	May 12	830	213	31	669
Spiral springs. Machine for securing the ends of.	H. S. Hall.	313,495	Mar. 10	634	165	30	904
Spiral springs. Machine for setting.	H. Borchardt.	313,706	Mar. 10	902	245	30	955
Spiral springs. Machine for setting.	A. O. Walker.	318,330	May 19	1879	505	31	886
Spirits and spirituous liquors by electricity. Apparatus for rectifying.	T. E. Atkinson.	312,948	Feb. 24	2016	550	30	745
Spirometer.	D. A. A. Buck.	325,784	Sept. 8	767	192	32	1163
Spirometer.	W. A. Shepard.	331,829	Dec. 8	866	222	33	1180
Spit.	M. E. Knight.	311,682	Feb. 3	266	74	30	398
Spittoon.	T. Bergmann.	311,636	Feb. 3	230	66	30	393
Spittoon.	T. J. Dorsey and M. S. McQuarrie.	319,468	June 9	675	181	31	1182
Splicer-holder.	A. W. Parmelee.	332,825	Dec. 22	2280	601	33	1426
Splice-bar and car-replacer combined.	H. H. Littell.	317,386	May 5	617	158	31	636
Spint.	C. Davis.	310,184	Jan. 6	35	10	30	9
Spint.	W. D. Kearns.	315,512	Apr. 14	741	196	31	138
Spint-cutting machine.	J. D. Jones.	311,496	Feb. 3	49	14	30	358
Spint-cutting machine.	J. D. Jones.	324,387	Aug. 18	1342	365	32	788
Spint fabric for chairs, &c.	T. W. Moore.	323,060	July 28	2252	595	32	432
Spint. Plaster-of-paris.	J. W. Bender and J. C. Hinkle.	323,775	Aug. 4	514	144	32	619
Spint. Plaster-of-paris.	J. P. Wallace.	316,421	Apr. 21	1990	523	31	372
Spoke driving and tenoning machine.	H. Watkins.	319,942	June 9	1329	350	31	1296
Spoke-extractor.	G. A. Schoenike.	319,512	June 9	737	198	31	1193
Spoke-setting machine.	C. P. Lewis.	321,616	July 7	283	75	32	54
Spoke-shave.	C. W. Smith.	325,571	Sept. 1	476	118	32	1106
Spoke-shave and chamfer-cutter.	J. Mander.	322,304	July 14	1198	314	32	227
Spoke-socket.	J. H. Webb.	331,591	Dec. 1	525	127	33	1069
Spoke-socket.	M. S. Weller.	323,990	Aug. 11	776	219	32	678
Spoke-tenoning machine.	G. R. Kidder.	326,508	Sept. 15	1707	445	32	1345
Sponge-cup.	S. Allen.	328,743	Oct. 20	1133	425	33	312
Sponge-gathering net.	B. K. Moscopoulos.	314,047	Mar. 17	1374	359	30	1050
Sponge or mop holder.	J. B. Morgan.	315,814	Apr. 14	1163	304	31	218

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Spool-holder. Portable	E. Carlson	325,655	Sept. 8	584	148	32	1131
Spool or ball holder	J. F. Adams	316,585	Apr. 28	9221	584	31	422
Spooler	E. S. Gary and H. T. Heath	328,422	Sept. 15	1603	417	32	1328
Spooler. Doubling	L. V. Richmond	310,722	Jan. 13	719	196	30	143
Spooler yarn-guide	J. H. Northrop and R. C. Fay	330,042	Nov. 10	836	215	33	689
Spoolers, &c. Stop-motion for	J. Lancaster	330,806	Nov. 24	1866	532	33	923
Spooling-machine bobbin-supporter	G. W. Dickerson	312,710	Feb. 24	1709	408	30	686
Spooling-machine bobbin-supporter	W. F. Draper	315,488	Apr. 14	709	187	31	132
Spooling-machines. Knot-tying apparatus for	J. H. Northrop	325,024	Sept. 1	541	137	32	1118
Spoon. Agitating	J. Rider	327,109	Sept. 29	2565	669	32	1512
Spoons, &c. Marking	F. W. Dexter	324,241	Aug. 11	1139	310	32	742
Spreading-tool for machines for coating fabrics with plastic material.	A. C. Barstow	320,530	June 23	2175	574	31	1468
Spring:							
See Air-spring.	Gate-spring.						
Bag and satchel frame spring.	Platform-spring.						
Bed-spring.	Printing-press buffer-spring.						
Bolster-spring.	Rein-spring.						
Buggy-top spring.	Vehicle-spring.						
Car-spring.	Vehicle platform-spring.						
Carriage-spring.	Vehicle-seat spring.						
Cultivator-spring.	Vehicle side spring.						
Door-spring.	Velocipede saddle-spring.						
Door and gate spring.	Velocipede-seat spring.						
Draft-spring.	Wagon-spring.						
Elliptic spring.	Wagon-bolster spring.						
Eyeglass-spring.	Watch-case spring.						
Spring	W. I. Bunker	319,555	June 9	793	210	31	1203
Spring	W. I. Bunker	326,944	Sept. 29	2349	614	32	1474
Spring	E. A. Jones	326,039	Sept. 8	1086	277	33	1222
Spring	L. Sterne	316,306	Apr. 21	1824	480	31	344
Spring-clasp	E. S. Smith	311,536	Feb. 3	104	31	30	369
Spring-clasp	E. S. Smith	317,032	May 5	132	33	31	546
Spring-clasp	J. L. Thomson	313,257	Mar. 3	327	81	30	836
Spring-clasp	J. J. Unbehend	313,390	Mar. 3	491	122	30	888
Spring-clasp	J. J. Unbehend	326,352	Sept. 15	1525	396	32	1311
Spring-clasp	J. J. Unbehend	326,353	Sept. 15	1526	397	32	1312
Spring-clip	S. A. Waterman	327,744	Oct. 6	316	81	33	55
Spring-coupling	T. D. Lines	322,734	July 21	1784	470	32	340
Spring for boxes, &c.	W. M. Ducker	323,027	July 28	2210	584	32	494
Spring head-clip. Vehicle	W. Evans	323,307	July 28	2602	691	32	498
Spring heads. Die and punch for making clips for carriage	A. Krönenbitter	322,544	July 21	1528	403	32	294
Spring-heads. Ear-piece for forming	A. Krönenbitter	322,545	July 21	1529	403	32	294
Spring-hanger	J. A. Mack and C. Hanson	315,644	Apr. 14	929	243	31	173
Spring-holding device	C. Riessner	316,062	Apr. 21	1490	392	31	295
Spring-jack and annunciator. Combined	L. Townsend and R. W. Moore	310,749	Jan. 13	755	206	30	149
Spring-jack-switch	J. C. Warren	321,553	July 7	903	54	32	40
Spring-joint for hooks, &c.	W. H. Walker	320,729	June 23	2428	644	31	1515
Spring-measurer and truck-indicator. Combined	G. W. Morris and W. Frech	315,532	Apr. 14	782	206	31	145
Spring-motor	P. Byrne	312,703	Feb. 24	1698	467	30	686
Spring-motor	M. H. Howell	313,534	Mar. 3	423	106	30	854
Spring-motor	G. Jlencke	317,368	May 5	593	132	31	638
Spring-motor	G. Jlencke and A. McKee	315,946	Apr. 14	1348	349	31	269
Spring-motor	W. H. Ostrander	323,197	July 28	2441	644	32	460
Spring-motor	W. H. Powell	332,000	Dec. 8	1113	290	33	1286
Spring-motor	D. Shive	322,794	Oct. 20	1612	420	32	388
Spring-motor	B. F. Teal	323,540	Aug. 4	209	61	32	561
Spring-motor for propelling vehicles	R. H. Garland	311,305	Jan. 27	1538	418	30	303
Spring-seat	G. W. Murray	324,335	Aug. 11	1971	345	32	767
Spring-seat	R. Walker	312,775	Feb. 24	1796	494	30	706
Spring-seat support	B. G. Meinkhelm	311,596	Feb. 3	188	53	30	323
Spring-setting machine	J. S. Peasenger	316,820	Apr. 28	2543	665	31	491
Spring vibrating chair	J. Edson	316,021	Apr. 21	1447	377	31	915
Spring-washer	H. A. Harvey	329,738	Nov. 3	422	106	33	585
Spring-washer	D. A. Johnson	330,492	Nov. 17	1438	394	33	785
Spring-washer. Nut-locking	J. Smith	314,888	Mar. 31	2515	668	30	1285
Springs. Attachment for connecting coil	C. Carleton	325,818	Sept. 8	817	204	32	1172
Springs. Machine for making	C. K. Stinson	329,094	Oct. 27	2133	552	33	409
Springs. Machine for making coiled-wire	F. L. Bryant	328,380	Oct. 13	1137	293	33	215
Springs. Turning the ends of	W. A. Sweet	320,187	June 16	1663	442	31	1367
Sprinkler:							
See Automatic-sprinkler. Broom-sprinkler.							
Sprinkler and atomizer	M. Goldman	320,346	June 16	1903	501	31	1408
Sprinkling apparatus	N. O. Bartley	311,560	Feb. 3	140	40	30	375
Sprinkling-box	C. A. Fonerden	313,718	Mar. 10	917	239	30	917
Sprinkling-machine	J. Dahn	332,329	Dec. 15	1537	416	33	1286
Sprocket-wheel	L. Herman	325,539	Sept. 1	436	108	32	1089
Spine-cutter	F. C. Fladd	311,738	Feb. 3	350	99	30	416
Spud. Range-boiler	N. Syme	327,738	Oct. 6	310	79	33	54
Square	W. F. Sergeant	332,011	Dec. 8	1130	295	33	1289
Square and bevel. Combined try	L. D. Howard	324,323	Aug. 11	1253	341	32	764
Square and gage. Combination	W. Ford	329,156	Oct. 27	2220	575	33	425
Square and miter. Combined	P. L. Fox	311,047	Nov. 24	2139	580	33	936
Square and miter. Combined drawing	J. Müller	311,911	Feb. 10	605	168	30	468
Square attachment	W. S. Winterbottom	329,353	Oct. 27	2506	645	33	477
Square. Bevel	J. O. Grover	320,931	June 30	2093	511	31	1371
Square, bevel, and level. Combined	B. B. Merrill	312,743	Feb. 24	1753	482	30	686

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Square. Carpenter's	W. Steers	330,718	June 23	2416	640	31	1513
Square. Folding	H. Davidson	318,877	May 26	2615	695	31	1026
Square-headed bolt.	W. Davis and W. Casey	330,962	Nov. 24	2045	533	33	918
Square, miter, and bevel. Combined	J. Müller	319,012	June 2	101	27	31	1067
Squares. Adjustable pitch-board for	H. Levy	327,283	Sept. 29	2788	725	32	1552
Squib-carrier. Miner's	H. Stride	328,358	Oct. 13	1103	286	33	809
Squib, match, and touch-paper safety-box	T. J. Foster	311,183	Jan. 27	1261	373	30	271
Squib. Miner's	J. R. Powell	326,057	Sept. 8	1115	284	32	1228
Squib. Miner's	J. R. Powell	326,239	Sept. 15	1367	353	32	1280
Stable-cleaner	L. Zimmerman	318,406	May 19	1979	532	31	904
Stable-scraper	S. C. Arnold	320,112	June 16	1567	413	31	1349
Stack-binder	A. J. Laundry	323,313	Dec. 29	2981	779	33	1558
Stack-cover	A. Cooley	323,638	Aug. 4	339	96	32	585
Stack-cover	F. Dean	322,045	July 14	874	227	32	167
Stacking-frame. Portable	S. J. Miller	320,153	June 16	1621	431	31	1358
Stacking-machine	B. Jackson	322,106	July 14	957	248 249 180	32	183
Staging-bracket. Adjustable	J. D. Davenport	319,463	June 9	670	179	31	1181
Stair-pad	T. Griffith	313,302	Mar. 3	240	60	30	821
Stair-pad	T. H. Kirk	323,341	July 28	2645	704	32	504
Stair-pad	H. W. Mather (Reissue)	10,550	Jan. 13	901	244	30	176
Stair-rod	T. A. Goodwin	324,679	Aug. 18	1742	480	32	862
Stair-rod	T. Worley	321,168	June 30	3067	797	31	1628
Stair-rod securer	L. M. Wiler	330,656	Nov. 17	1634	439	33	834
Staking and jewelling tool. Adjustable	C. J. Olin	313,363	Mar. 3	459	118	30	861
Stalk and cane cutter	A. Baumgartner	318,742	June 2	5	2	31	1049
Stalk and clod cutter.	J. C. Farley	332,001	Dec. 15	1977	517	33	1363
Stalk-cutter	J. K. Patterson	320,812	June 23	2529	670	31	1534
Stalk-cutter	R. L. Price	325,628	Sept. 1	545	138	32	1119
Stalk-rake	W. and N. Hollingsworth	336,739	Sept. 22	2056	535	32	1414
Stall	C. F. Shedd	320,711	June 23	2408	638	31	1511
Stalls. Device for releasing animals from	B. E. Hiestand and A. W. Swade	322,603	July 21	1611	425	32	308
Stalls. Device for releasing cattle from	R. H. and H. E. Kline	321,901	July 7	676	175	32	123
Stamp	W. S. Sharpneck	320,818	June 23	2536	672	31	1535
Stamp. Automatic registering.	C. C. Montague	319,008	June 2	95	25	31	1065
Stamp-batteries. Mortar-bed for	G. Massu and F. Fernandez	310,296	Jan. 6	179	49.50	30	35
Stamp-canceling and postmarking machine	M. V. B. Ethridge	323,739	Aug. 4	533	151 152 153	32	623
Stamp. Check	S. W. Buzard	331,227	Nov. 24	2403	650	33	982
Stamp. Hand	E. D. Chamberlain	314,315	Mar. 24	1728	460	30	1124
Stamp. Hand	W. A. Force	326,418	Sept. 15	1599	416	32	1225
Stamp. Hand	B. B. Hill	315,285	Apr. 7	420	105	31	76
Stamp. Hand	B. B. Hill	315,286	Apr. 7	422	105	31	76
Stamp. Hand	W. H. Keeler	321,223	June 30	3072	815	31	1640
Stamp. Hand	L. Myers	313,012	Feb. 24	2113	576	30	762
Stamp. Hand	G. J. B. Rodwell	330,604	Nov. 17	1830	493	33	871
Stamp. Hand	W. W. Sawyer and J. H. Gould	315,076	Apr. 7	123	29	31	24
Stamp. Marking.	F. M. Bulkeley	331,475	Dec. 1	314	84	33	1054
Stamp-mill	H. Bolthoff	312,956	Feb. 24	2025	552 553	30	746
Stamp-mill	W. Grosch	313,587	Mar. 10	751	198	30	926
Stamp-mills. Amalgamator and concentrator for	L. M. Boardman	330,817	Nov. 17	1846	407	33	673
Stamp-moistener	T. W. Wharmby	327,211	Sept. 29	2699	701	32	1537
Stamp. Ore	C. Sholl	318,193	May 19	1688	452 453	31	851
Stamp-pad	C. P. Stevens	316,672	Apr. 28	2318	608	31	440
Stamp. Self-inking pocket.	E. M. Richford	317,853	May 12	1239	328	31	758
Stamps. Apparatus for affixing	V. I. H. Bundsen	322,578	July 21	1583	417 418	32	303
Stamps. Box and pad for canceling	J. A. Fife	322,534	July 21	1518	400	32	292
Stamps, &c. Device for picking up and affixing.	G. W. Schimmel	319,328	June 2	479	129	31	1139
Stamps, envelopes, &c. Apparatus for moistening.	W. H. H. Lintner	322,542	Dec. 15	1893	495	33	1347
Stamps. Inking-pad for hand.	C. A. Klinkner	326,042	Sept. 8	1068	277	32	1223
Stamps. Machine for stamping and obliterating postage.	E. Daguin	319,962	June 16	1359	357	31	1312
Stamps. Registering apparatus for check.	B. P. Roberts	316,293	Apr. 21	1809	476	31	341
Stamping-dies. Machine for feeding letters to.	W. Löffelhardt	311,340	Jan. 27	1592	435 436 418	30	313
Stamping-machine	M. C. Walling	332,850	Dec. 22	2317	613 614	33	1432
Stamping machine. Ore	G. Ostrout	328,153	Oct. 13	839	219	33	159
Stamping press	J. H. Clapp	324,812	Aug. 25	1929	530	32	904
Stamping press. Hydraulic	J. S. Peasenger	330,730	Nov. 17	1738	468	33	854
Stanchion	J. A. Barber	327,753	Oct. 6	326	84	33	57
Stanchion. Cattle	D. J. Barnes	332,275	Dec. 29	2925	765	33	1547
Stand:							
See Barrel stand.	Hat-stand.						
Bath-stand.	Ink-stand.						
Bottle-stand.	Mirror-stand.						
Camera-stand.	Plaque-stand.						
Coffee-pot stand.	Revolving stand.						
Drawing-stand.	Sewing-machine stand.						
Extensible stand.	Show-stand.						
Flower-stand.	Show-case stand.						
Flower-pot stand.	Switch-stand.						
Fruit-picking stand.	Type-case stand.						
Folding stand.	Umbrella-stand.						
Garment-hanging stand.	Umbrella show-stand.						
Stand and tilter for casks.	Wash-stand.						
Stand for type-writers, &c	J. T. Vaughan	324,436	Aug. 18	1409	384	32	800
Stand-pipes. Inlet-nozzle for	W. H. Trueman	313,785	Mar. 10	1016	269	30	975
	S. Lord and W. H. Dalley	315,521	Apr. 14	758	201	31	141

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &	Vol.	Page.
Staple	W. Chisholm	315,124	Apr. 7	181	45	31	33
Staple	J. Haight	312,460	Feb. 17	1373	379	30	680
Staple	A. Nelson	318,607	June 9	875	231	31	1214
Staple	R. M. Squire	327,330	Sept. 29	2264	747	32	1585
Staple-driver	D. Dodsworth	327,537	Oct. 6	47	10	33	10
Staple driving and clinching implement	W. Young	317,480	May 5	749	189	31	658
Staple-extractor	T. Flanagan	314,116	Mar. 17	1471	384	30	1067
Staple-fastener for wooden vessels	W. O. Swett	314,904	Mar. 17	1576	417	30	1086
Staple-machine	J. Adt	330,364	Nov. 17	1270	337	33	763
Staple-making machine	O. P. Briggs	325,814	Sept. 8	808	903	32	1171
Staples. Cutting	J. F. Thayer	329,997	July 28	2160	573	32	416
Staples. Die for making	W. Truran	327,974	Oct. 6	608	159	33	109
Staples. Machine for forming and driving wire	G. D. King	325,611	Sept. 1	580	130	32	1114
Staples. Machine for making	J. Adt	327,217	Sept. 29	2704	703	32	1536
Staples. Machine for making	J. F. Hanscom	323,373	July 14	1990	704	32	945
Stapling-machine	J. D. Wilber and A. B. Smith	330,950	Nov. 24	2026	337	33	914
Starch, &c. Apparatus for drying	W. Duryea	312,341	Feb. 17	1212	548	30	539
Starch. Apparatus for the manufacture of	F. P. Stiker	327,034	Sept. 29	2458	334	32	1494
Starch-depositing plane	W. Duryea	320,430	June 16	2038	535	31	1433
Starch-depositing plane	W. Duryea	320,431	June 16	2039	535	31	1433
Starch. Drying	R. Johnson	323,425	Aug. 4	53	14	32	532
Starch, glucose, &c. Manufacture of	P. Radenhausen	319,315	June 2	466	31	1136	
Starch in amylaceous substances. Liquefaction, dex- trination, and saccharification by means of malt of the	L. Cuisinier	311,646	Feb. 3	246	20	365	
Starch. Laundry	W. H. Midgley	319,598	June 9	862	928	31	1216
Starch manufacture, &c. Apparatus for drying the by-products of	W. Duryea	312,342	Feb. 17	1215	334	30	539
Starch. Manufacture of	W. F. Birge	329,701	Nov. 3	369	93	33	575
Starch. Manufacture of	J. C. Schuman	316,404	Apr. 21	1959	516	31	367
Starch. Manufacture of	J. C. Schuman	316,405	Apr. 21	1962	517	31	367
Starch. Manufacture of	J. C. Schuman	318,308	May 19	1849	496	31	889
Starch. Manufacture of	J. C. Schuman	320,400	June 16	2003	31	1427	
Starch. Manufacture of	J. C. Schuman	320,402	June 16	2006	31	1428	
Starch. Manufacture of	S. Spitzer	329,229	Oct. 27	2325	602	33	445
Starch. Manufacturing	F. P. Stiker	327,035	Sept. 29	2459	642	32	1494
Starch. Preparing and treating	W. T. Jebb	320,361	June 16	1934	31	1413	
Starch. Preparing and treating	J. C. Schuman	318,307	May 19	1847	496	31	889
Starch. Preparing and treating	J. C. Schuman	320,401	June 16	2004	31	1427	
Starch refuse from each other. Apparatus for sepa- rating the solid and liquid portions of	F. P. Stiker	327,345	Sept. 29	2876	750	32	1567
Starch. Treating and preparing	J. C. Schuman	316,406	Apr. 21	1964	517	31	368
Starch. Treating buckram and other fibrous sub- stances with	P. C. Ritchie	322,439	Dec. 15	1743	518	33	1222
Starching and tenting machine	C. B. Haynes	320,249	June 16	1742	463	31	1381
Station-indicator	M. Anthony	325,643	Sept. 8	571	145	32	1129
Station-indicator	C. H. Jenne	311,566	Feb. 3	172	48	30	320
Station-indicator	W. Jones	327,951	Oct. 6	576	150	33	104
Station-indicator	W. J. Pettingell	319,505	June 9	797	193	31	1191
Station-indicator for railway-cars, &c	D. J. Faris	323,407	Aug. 4	33	8	32	569
Station indicator. Railway	J. Matzinger	314,037	Mar. 17	1363	355	30	1048
Station train-indicator	E. S. Boynton	317,616	May 12	929	232	31	699
Stationery package	E. S. Peck	312,756	Feb. 24	1771	477	30	703
Stave and cask	A. C. Blount	312,955	Feb. 24	2022	522	30	746
Stave and hoop. Barrel	I. L. G. Rice	320,153	Nov. 10	968	257	33	701
Stave-bending machine	E. M. Jewett	327,173	Sept. 29	2653	690	32	1527
Stave-dressing machine	J. B. Heverling	314,125	Mar. 17	1483	397	30	1069
Stave-dressing machine	J. B. Heverling	314,176	Mar. 17	1545	404	30	1060
Stave-jointing machine	H. D. Barnes	320,747	June 23	2448	405	31	1520
Stave-jointing machine	E. D. and I. Buckman	314,648	Mar. 31	2178	578	30	1232
Stave-jointing machine	W. B. McCarthy	321,515	July 7	153	40	32	30
Stave trimming, chamfering, and crozing machine	F. Myers	329,846	Nov. 3	572	146	33	611
Stay for dresses, corsets, &c	S. M. and H. Moschowitz	323,716	Aug. 4	433	124	32	604
Staying layers of flexible material. Machine for	G. R. Pearce	323,248	Dec. 29	2985	755	33	1540
Staying layers of flexible material. Machine for	G. R. Pearce	323,249	Dec. 29	2988	756	33	1541
Steam and air brake	C. Phillips. (Reissue)	10,564	Feb. 24	2151	565	30	769
Steam and air brake system	W. H. Clarke	323,197	Dec. 29	2812	736	33	1536
Steam and hot-air engine. Combined	D. Lyle	317,814	May 12	1184	315	31	748
Steam and utilizing exhaust. Generating	C. Heinzerling	311,984	Feb. 10	717	196	30	468
Steam and water boiler	E. Gurney and C. Sellers	324,314	Aug. 11	1942	338	32	763
Steam and water gage. Safety	J. L. Nelson and A. F. Landerholm	316,998	May 5	94	24	31	520
Steam at a high pressure from steam at a lower pres- sure. Production of	M. Honigmann	323,223	Dec. 29	2851	745	33	1533
Steam-boiler	H. F. Allen	314,308	Mar. 24	1721	458	30	1123
Steam-boiler	G. H. Babcock	314,416	Mar. 24	1880	495	30	1130
Steam-boiler	M. W. Barse	319,545	June 9	780	907	31	1201
Steam-boiler	W. T. Bate	319,383	June 2	546	148	31	1122
Steam-boiler	J. B. Birdsell, L. H. Bratt, and W. F. Wetmore	326,833	Sept. 29	2187	570	32	1426
Steam-boiler	J. H. Bell	330,458	Nov. 17	1393	371	33	726

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Steam-boiler	W. W. Carman	317,503	May 12	783	200	31	673
Steam-boiler	W. Clark	315,243	Apr. 7	369	91	31	67
Steam-boiler	J. O. Draper	312,447	Feb. 17	1346	372	30	016
Steam-boiler	T. Drummond	322,701	July 21	1743	460	32	333
Steam-boiler	J. Elliot, Jr., and T. A. Cunningham	323,647	Aug. 4	349	99	32	587
Steam-boiler	E. E. Ellis	326,960	Sept. 29	2369	619	32	1477
Steam-boiler	W. Esty	329,379	Oct. 27	2548	637	33	426
Steam-boiler	J. Ferrando	324,545	Aug. 18	1550	427	32	626
Steam-boiler	P. Fitzgibbons	313,307	Mar. 3	393	98	30	848
Steam-boiler	W. Flagg	325,312	Sept. 1	135	38	32	1040
Steam-boiler	A. H. Fowler	323,412	Aug. 4	39	10	32	530
Steam-boiler	G. Fox	324,101	Aug. 11	938	252	32	705
Steam-boiler	A. O. Frick	331,488	Dec. 1	322	89	33	1057
Steam-boiler	C. M. Giddings	321,015	June 30	2806	746	31	1592
Steam-boiler	T. G. Hall	331,495	Dec. 1	340	92	33	1059
Steam-boiler	G. G. M. Hardingham	316,032	Apr. 21	1459	381	31	279
Steam-boiler	M. W. Hazelton	310,891	Jan. 20	932	254	30	198
Steam-boiler	S. P. Hedges	316,144	Apr. 21	1620	424	31	307
Steam-boiler	M. E. Herbert	310,423	Jan. 6	738	93	30	66
Steam-boiler	H. C. Hoffmeister	312,718	Feb. 24	1718	472	30	692
Steam-boiler	T. Kays	315,511	Apr. 14	738	195	31	138
Steam-boiler	E. S. T. Kennedy	329,911	Nov. 10	660	169	33	636
Steam-boiler	W. Kent	317,653	May 12	974	251	31	708
Steam-boiler	W. Kent	330,126	Nov. 10	958	248	33	604
Steam-boiler	P. I. Lynch	314,947	Mar. 31	2602	668	30	1310
Steam-boiler	W. Malam	324,134	Aug. 11	983	271	32	713
Steam-boiler	J. H. Mars	332,367	Dec. 15	1506	394	33	1281
Steam-boiler	J. M. McCulloch	313,944	Mar. 17	1252	326	30	1026
Steam-boiler	J. McEwan	326,440	Sept. 15	1627	426	32	1330
Steam-boiler	J. C. McNeil	332,623	July 21	1636	432	32	313
Steam-boiler	P. O'Connor	319,842	June 9	1185	313	31	1273
Steam-boiler	V. P. Orloff	332,357	Dec. 15	1634	429	33	1304
Steam-boiler	B. N. Payne	322,475	July 21	1439	377	32	278
Steam-boiler	J. F. Poase	332,748	Dec. 22	2192	578	33	1410
Steam-boiler	J. S. Passenger	310,120	June 2	232	61	31	1070
Steam-boiler	A. Pifre	312,379	Feb. 17	1258	347	30	592
Steam-boiler	G. A. Porter	317,100	May 5	369	90	31	589
Steam-boiler	G. A. Porter	325,067	Sept. 8	992	252	32	1206
Steam-boiler	G. A. Porter	332,826	Dec. 22	2226	602	33	1427
Steam-boiler	M. and W. N. Rumely	320,489	Nov. 3	67	23	33	522
Steam-boiler	G. N. Soeets	333,165	Dec. 22	2770	720	33	1519
Steam-boiler	J. C. Stead	330,438	Nov. 17	1366	364	33	781
Steam-boiler	G. S. Strong	315,974	Apr. 14	1388	359	31	267
Steam-boiler	J. A. Svedberg	324,430	Aug. 18	1402	382	32	709
Steam-boiler	G. G. Thudall	325,027	Aug. 25	2214	606	32	956
Steam-boiler	J. Walrath	327,841	Oct. 6	437	114	33	77
Steam-boiler	C. Wheeler, Jr.	322,226	July 14	1108	298	32	211
Steam-boiler	C. Williams	313,566	Mar. 10	722	189	30	921
Steam-boiler	B. F. Wright	321,929	July 7	713	186	32	129
Steam-boiler	L. Zeller	316,214	Apr. 21	1708	448	31	323
Steam-boiler and furnace	J. D. Randall and W. A. King	312,163	Feb. 10	967	263	30	535
Steam-boiler alarm	C. E. Brown	325,193	Aug. 25	2429	667	32	997
Steam-boiler blow-off	S. A. Moore	316,561	Apr. 28	2174	573	31	413
Steam-boiler cleaner	H. B. Baker	325,476	Sept. 1	351	85	32	1092
Steam-boiler cleaner	H. B. Baker	332,036	Dec. 8	1174	307	33	1217
Steam-boiler cleaner	R. Stewart	319,802	June 9	1213	320	31	1279
Steam-boiler covering	W. H. McKinney	319,738	June 9	1036	274	31	1248
Steam-boiler draft apparatus	M. M. Greenwade	310,198	Jan. 6	51	14	30	12
Steam-boiler flue-cleaner	W. H. Cooper	315,738	Apr. 14	1060	277	31	199
Steam-boiler header	R. R. Zell	321,320	June 30	3202	854	31	1665
Steam-boiler heads. Machine for flanging	F. L. Kollberg	317,145	May 5	287	73	31	576
Steam-boiler indicator and alarm	H. F. Logee	331,801	Dec. 8	921	209	33	1152
Steam-boiler joint or seam	J. E. Jerrold	329,314	Oct. 27	2446	633	33	468
Steam-boiler. Low-pressure	J. Curry	330,300	Nov. 10	1169	311	33	737
Steam-boiler man-holes and analogous devices. Manufacture of	J. Tordoff	316,312	Apr. 21	1831	462	31	345
Steam-boiler scale-collector	J. F. Martin	323,703	Aug. 4	418	120	32	601
Steam-boiler. Sectional	A. Worthington	320,035	June 16	1459	384	31	1330
Steam-boiler. Sectional	A. Worthington	330,359	Nov. 10	1257	334	33	753
Steam-boiler separator	C. M. Giddings	321,016	June 30	2806	746	31	1592
Steam-boiler tube-sheet	W. Kent	330,127	Nov. 10	960	249	33	695
Steam-boiler. Upright	G. A. Thode	324,188	Aug. 11	1059	290	32	727
Steam-boiler water-feeder	J. P. Buckley	325,195	Aug. 25	2433	668	32	997
Steam-boilers. Adjustable water-line indicator for	A. W. Pratt	315,659	Apr. 14	947	248	31	177
Steam-boilers. Air-supply apparatus for	J. S. Passenger	332,941	Dec. 22	2444	646	33	1457
Steam-boilers. Automatic feed for	H. A. Sanford	324,417	Aug. 18	1385	377	32	796
Steam-boilers, &c. Covering for	J. G. Naardt	321,233	June 30	3087	820	31	1642
Steam-boilers for preventing fractures and explosions. Treating	C. S. Ebaugh	329,446	Nov. 3	24	7	33	509
Steam-boilers. Getting up steam in	W. Craig	327,659	Oct. 6	217	54	33	38
Steam-boilers. Smoke-tube for tubular	A. Normand	322,848	Nov. 3	575	147	33	012

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Steam by electricity. Generating	W. W. Vaughn and E. D. Eldridge.	314,277	Mar. 24	1077	447	30	1114
Steam-cylinder lubricator	F. G. Kellogg.	314,030	Mar. 17	1358	353	30	1046
Steam-cylinders. Reducing clearance in	H. H. Westinghouse.	327,630	Oct. 6	175	43	33	31
Steam draft and pressure regulator	N. J. Waterman.	315,864	Apr. 14	1229	321	31	230
Steam-engine	D. W. Amos.	311,708	Feb. 3	323	29	30	410
Steam-engine	W. S. Arnold.	310,489	Jan. 6	417	115	30	80
Steam-engine	J. L. Bogert.	325,487	Sept. 1	363	88	32	1085
Steam-engine	T. Brantley.	325,725	Sept. 8	689	172	32	1148
Steam-engine	L. B. Carricaburu.	321,064	June 30	2901	771	31	1609
Steam-engine	J. Clark.	316,332	Apr. 21	1858	491	31	349
Steam-engine	R. Creuzbaur.	332,499	Dec. 15	1812	475	33	1335
Steam-engine	R. Creuzbaur.	332,500	Dec. 15	1815	476	33	1335
Steam-engine	R. Creuzbaur.	332,501	Dec. 15	1818	476	33	1336
Steam-engine	R. Creuzbaur.	332,502	Dec. 15	1820	477	33	1336
Steam-engine	J. Curtis.	333,060	Dec. 22	2614	685	33	1486
Steam-engine	L. B. Ellis.	320,233	June 16	1723	458	31	1377
Steam-engine	S. L. Gneiss.	313,662	Mar. 17	1127	293	30	1003
Steam-engine	D. D. Hardy.	313,728	Mar. 10	933	242	30	960
Steam-engine	D. D. Hardy.	331,234	Nov. 24	2414	654	33	985
Steam-engine	W. E. Hill.	325,079	Aug. 25	2233	688	32	970
Steam-engine	S. H. Howard.	314,120	Mar. 17	1480	389	30	1070
Steam-engine	C. A. Jacobs.	317,541	May 12	928	213	31	661
Steam-engine	J. E. Kimble.	330,494	Nov. 17	1439	385	33	795
Steam-engine	W. J. Lane.	315,516	Apr. 14	746	197	31	140
Steam-engine	C. M. Long.	326,303	Sept. 15	1464	380	32	1300
Steam-engine	M. N. Lynn.	313,005	Feb. 24	2094	321	30	759
Steam-engine	M. N. Lynn.	313,008	Feb. 24	2103	373	30	760
Steam-engine	M. N. Lynn and G. N. Wheeler.	315,643	Apr. 14	928	243	31	173
Steam-engine	R. M. Marchant.	332,670	Dec. 15	2075	545	33	1380
Steam-engine	D. D. Pinkham.	321,313	June 30	3123	248	31	1061
Steam-engine	G. W. Price.	313,445	Mar. 3	571	147	30	883
Steam-engine	A. Reis.	331,442	Dec. 1	268	72	33	1046
Steam-engine	J. S. Robbins and J. T. Foster.	329,954	Nov. 10	721	184	33	646
Steam-engine	C. B. Turner.	317,417	Sept. 29	2968	775	32	1583
Steam-engine	B. C. Waite.	332,999	July 28	2163	574	32	416
Steam-engine	H. H. Westinghouse. (Reissue)	10,603	May 26	2698	714	31	1042
Steam-engine	H. H. Westinghouse.	322,334	July 14	1235	324	32	215
Steam-engine	P. W. Willams.	329,967	Nov. 10	763	195	33	654
Steam-engine	A. A. Willson.	327,910	Oct. 6	521	135	33	93
Steam-engine cap-plate	C. H. Roberts.	315,240	Apr. 14	1192	310	31	223
Steam-engine. Compound	G. E. Dow.	330,3e8	Nov. 17	1303	346	33	769
Steam-engine. Compound	J. A. Groshon.	319,900	June 9	1269	334	31	1228
Steam-engine. Compound	J. A. Groshon.	319,901	June 9	1271	335	31	1228
Steam-engine. Compound	J. F. Krieger and J. H. Eickershoff.	318,003	May 19	1448	338	31	806
Steam-engine. Compound	H. L. Perrine.	313,366	Mar. 3	469	119	30	862
Steam-engine. Compound	I. A. Turner.	321,325	June 30	3197	652	31	1064
Steam-engine condensing apparatus	J. L. Alberger and T. Sault.	318,225	May 19	1733	463	31	860
Steam-engine cross-head	S. Greenhalgh.	318,244	May 19	1757	470	31	864
Steam-engine cross-head	A. L. Ide.	321,727	July 7	490	112	32	79
Steam-engine cross-head	J. B. Stanwood.	318,216	May 19	1721	460	31	857
Steam-engine-cross-head lubricator	A. L. Ide.	321,726	July 7	418	112	32	78
Steam-engine cylinder	G. S. Strong.	320,894	June 23	2638	699	31	1354
Steam-engine exhaust attachment	E. M. Thomas.	319,759	June 9	1060	282	31	1222
Steam-engine for reciprocating propellers	R. Smith and G. H. Collins.	327,335	Sept. 29	2854	744	32	1564
Steam-engine frame	A. L. Ide.	314,381	Mar. 24	1214	483	30	1141
Steam engine indicator	A. B. Calkins.	330,958	Nov. 24	2039	551	33	917
Steam-engine link	S. T. Bryant.	322,415	July 21	1353	333	32	963
Steam-engine lubricating attachment	H. H. Westinghouse. (Reissue)	10,586	Apr. 21	9012	528	31	376
Steam-engine lubricator	J. W. Cloud and S. Porcher.	324,362	Aug. 18	1309	335	32	782
Steam-engine lubricator	W. H. Craig.	314,214	Mar. 17	1585	420	30	1088
Steam-engine lubricator	W. H. Craig.	322,912	July 26	2036	537	32	293
Steam-engine lubricator	W. H. Craig.	331,772	Dec. 8	791	200	33	1147
Steam-engine. Oscillating	W. Elder.	324,098	Aug. 11	933	257	32	704
Steam-engine. Oscillating	E. L. Moore.	320,575	June 23	2227	590	31	1477
Steam-engine. Oscillating	C. P. Waldron.	316,307	Apr. 21	1694	445	31	321
Steam-engine piston	J. J. Love.	326,046	Sept. 8	1093	279	32	1223
Steam-engine pressure-recorder and speed-indicator	G. W. Brown.	316,111	Apr. 21	1574	409	31	298
Steam-engine reversing-gear	A. A. Clarke.	311,812	Feb. 3	451	123	30	433
Steam-engine stuffing-box	S. C. Berry.	326,384	Sept. 15	1560	405	32	1312
Steam-engine. Superheated	M. P. W. Boulton and E. Perrett.	312,959	Feb. 24	2050	554	30	747
Steam-engines. Apparatus for stopping	H. Oelert.	314,466	Mar. 24	1922	514	30	1161
Steam-engines. Automatic device for stopping	J. M. Leing.	325,941	Sept. 8	954	243	32	1200
Steam-engines. Automatic lubricator for	C. Cousee.	318,168	May 19	1601	445	31	845
Steam-engines. Dash-pot for	H. F. Williston.	328,909	Oct. 20	1840	480	33	351
Steam-engines. Device for throttling	G. Parker.	313,365	Mar. 3	461	119	30	832
Steam-gage	G. W. Brown.	318,691	May 26	2360	630	31	992
Steam-generator	J. Fish.	331,783	Dec. 8	801	203	33	1149
Steam-generator	S. Fiske.	326,552	Sept. 22	1766	462	32	1364
Steam-generator	M. Foreman.	333,001	Dec. 22	2537	689	33	1472
Steam-generator	F. J. Furman.	332,106	Dec. 8	1400	362	33	1256
Steam-generator	W. A. Gröndahl.	319,235	June 2	364	97	31	1116
Steam-generator	D. Harmon.	313,327	Mar. 3	415	104	30	853

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Steam-generator	A. P. Holcomb	318,902	May 26	2644	701	31	1032
Steam-generator	A. P. Holcomb	324,094	Aug. 18	1705	456 487	32	866
Steam-generator	J. Kaupley and W. S. Cherry	311,500	Feb. 10	593	162	30	468
Steam-generator	W. H. Lewis	326,510	Sept. 15	1711	446	32	1346
Steam-generator	W. H. Page	312,652	Feb. 24	1628	448	30	676
Steam-generator	W. H. Page	331,431	Dec. 1	252	67, 68	23	1043
Steam-generator	W. A. Pentecost	315,160	Apr. 7	241	59	31	44
Steam-generator	W. A. Pentecost	328,140	Oct. 13	190	214	33	155
Steam-generator	N. W. Pratt	311,446	Jan. 27	1731	471 472	30	339
Steam-generator	N. W. Pratt	314,196	Mar. 17	1569	414 415	30	1084
Steam-generator	N. W. Pratt	318,501	May 26	2101	566 567	31	936
Steam-generator	N. W. Pratt	323,891	Aug. 4	641	181	32	644
Steam-generator	N. W. Pratt	323,892	Aug. 4	641	181	32	644
Steam-generator	J. Robb	321,251	June 30	3107	828	31	1646
Steam-generator	J. E. Shapley	320,446	June 16	2058	540	31	1436
Steam-generator	J. C. Stead	311,450	Jan. 27	1735	473	30	339
Steam-generator	H. Stutsman	328,531	Oct. 20	1333	346	33	259
Steam-generator	J. W. Van Dyke	315,190	Apr. 7	298	71	31	53
Steam-generator	H. H. Ward	326,466	Sept. 15	1658	433	32	1336
Steam-generator	A. White	311,395	Jan. 27	1662	454	30	326
Steam-generator	M. M. Whittemore, R. H. Arnold, and E. S. Staples.	326,186	Sept. 15	1273	335	32	1268
Steam-generator	W. Zellner	313,370	Mar. 3	340	84	30	838
Steam-generator furnace	N. W. Pratt	323,893	Aug. 4	642	181	32	644
Steam-generator. Sectional	T. C. Joy	317,370	May 5	596	153	31	632
Steam-generator surface-blow	N. W. Pratt	323,894	Aug. 4	643	182	32	644
Steam-generator. Tubular	P. Reilly	329,677	Nov. 3	338	86	33	568
Steam-generator. Tubular	P. Reilly	329,678	Nov. 3	340	86, 87	31	569
Steam-generators. Fuel-magazine for	G. Mehring	319,005	June 2	93	24	31	1065
Steam. Heating exhaust and superheating live	L. Hassey. (Reissue)	10,632	Aug. 4	668	187 188	32	649
Steam-jet apparatus	L. Schutte	312,170	Feb. 10	972	265	30	536
Steam-motor	C. Heinzerling	311,983	Feb. 10	715	196	30	488
Steam-motor. Low-pressure	H. Davey	310,387	Jan. 6	301	83	30	58
Steam-muffler	C. H. De Witt	310,654	Jan. 13	632	174	30	126
Steam-muffler	W. E. Pearson	318,651	May 26	2306	616	31	972
Steam or other hot-gas cylinder	F. E. Galloupe	333,294	Dec. 29	2923	771	33	1553
Steam or vapor engine	A. Bowe	310,369	Jan. 6	279	77	30	54
Steam-pipe covering	J. M. Hammill	311,750	Feb. 3	378	103	30	420
Steam-pipe covering	C. Lamkiu	332,258	Dec. 15	1496	391	33	1279
Steam-pipe-fittings. Non-conducting covering for	W. S. Seymour	313,958	Mar. 17	1269	331	30	1029
Steam-pipe support	J. Finnegan	324,929	Aug. 25	2085	570	32	933
Steam-pipe vent	J. S. Venson	310,338	Jan. 6	244	67	30	46
Steam-pipes, &c. Device for holding	T. W. Prior	325,767	Sept. 8	745	186	32	1160
Steam-pipes, &c. Manufacture of coverings for	R. Hammill	326,865	Sept. 22	2235	583	32	1447
Steam. Removing oil from exhaust	S. Stuart	316,673	Apr. 28	2319	609	31	440
Steam reversing-gear	A. L. Church	330,959	Nov. 24	2041	551 552	33	917
Steam-separator	E. P. Stratton	323,891	Aug. 4	655	185	32	646
Steam-supply system	N. W. Pratt	311,606	Feb. 3	197	56	30	368
Steam-table	C. E. Emery	323,570	Aug. 4	246	72	32	567
Steam-trap	J. B. Barry	315,890	Apr. 14	1970	330	31	236
Steam-trap	J. Correll	332,997	Dec. 22	2533	668	33	1471
Steam-trap. Return	I. Cumberbatch	327,433	Sept. 29	2967	780	32	1587
Steam-trap	J. Dimelow	310,585	Jan. 20	925	253	30	168
Steam-trap	J. B. Erwin	321,701	July 7	391	104	32	73
Steam-trap	J. H. Fogarty	310,400	Jan. 6	316	87	30	61
Steam-trap	W. A. Fokett	311,113	Jan. 20	1256	344	30	246
Steam-trap	R. B. Helliwell	318,249	May 19	1762	471	31	885
Steam-trap	J. W. Kenyon	331,246	Nov. 24	2430	658	33	987
Steam-trap	C. H. Magoon	318,271	May 19	1793	480	31	870
Steam-trap	J. Morehead	327,691	Oct. 6	483	129	33	88
Steam-trap	J. Morehead	327,692	Oct. 6	486	129	33	88
Steam-trap	M. J. Redmond	323,204	July 28	2452	651	32	470
Steam-trap	W. W. Taylor	326,347	Sept. 15	1520	395	32	1310
Steam-trap	H. A. Tobey	333,032	Dec. 22	2582	679	33	1481
Steam-trap	W. Vanderman	310,967	Jan. 20	1049	285 286	30	207
Steam-trap	C. Watson and A. Gaukroger	321,556	July 7	206	54	32	41
Steam trap. Exhaust	J. Hoev	320,134	June 16	1597	422	31	1354
Steam trap. Return	J. McGwin	311,507	Feb. 3	62	18	30	361
Steam. Utilization of exhaust	M. Honigmann. (Reissue)	10,675	Dec. 22	2670	700	33	1496
Steam-washer	L. C. Wright	319,656	June 9	931	240	31	1228
Steam-wheel	R. Powers	312,015	Feb. 10	758	207	30	497
Steamer. Culinary	G. F. Seavey	317,219	May 5	397	99	31	596
Steamer. Food	L. S. Bunker	313,713	Apr. 14	1016	267	31	191
Steamer. Food	O. Nelsen	317,839	May 12	1220	321	31	735
Steamer for cooking food	C. A. Gifford	311,306	Jan. 27	1541	419	30	303
Steamer, lawn, and invalid chair	D. Parks	329,941	Nov. 10	703	180	33	643
Steaming and ore-scouring apparatus	T. C. Simonton	323,456	Aug. 4	93	27	32	540
Steaming grain. Apparatus for	W. H. Justus	317,461	May 5	725	163	31	654
Steaming-table	R. E. Deane	310,185	Jan. 6	36	10	30	9
Steel and steel-coating wrought-iron. Making re- fined cast	T. Sheehan	320,819	June 23	2537		31	1536
Steel. Apparatus for making	A. Davy	333,256	Dec. 20	2739	768	33	1550
Steel. Butcher's	T. W. Stone	317,591	May 12	1893	229	31	693
Steel by the pneumatic operation. Making	J. P. Withrow	327,419	Sept. 29	2972	775	32	1584
Steel. Decoxidizing molten iron in the manufacture of	N. B. Witman	318,067	May 19	1531		31	820
Steel die	H. A. Harvey and C. S. Clark	327,262	Sept. 29	2761	716 717	32	1548
Steel forgings and castings. Manufacturing	A. Tindel	324,433	Aug. 18	1405		32	799

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Steel. Hardening	N. C. Hubbell	310,433	Jan. 6	350		30	68
Steel ingots. Soaking-pit for	J. Riley	333,027	Dec. 22	2576	677	33	1429
Steel jars. Die for making	J. J. Davin	311,648	Feb. 3	251	60	30	306
Steel-ladle-drying furnace	D. H. Williams	313,701	Mar. 10	897	233	30	954
Steel-plant appliance	J. P. Withterow	327,425	Sept. 29	29777	778	32	1585
Steel trap	E. A. Cook, J. D. Shotta, and D. Staring	312,094	Feb. 10	858	235	30	546
Steep tube and vats. Drop-valve for	J. Irlbacker	311,247	Jan. 27	1452	396	30	289
Steering apparatus	F. H. Cathcart	311,869	Feb. 10	535	147	30	437
Steering apparatus	L. Heydt	313,733	Mar. 10	943	244	30	961
Steering apparatus. Automatic	C. H. Washburn	313,901	Mar. 17	1179	307	30	1013
Steering apparatus. Steam	E. J. Lewis	314,859	Mar. 31	2471	654	30	1257
Steering boats, &c. Apparatus for	W. Haynes	331,499	Dec. 1	345	93	33	1600
Steering canal-boats	C. McCabe	330,670	June 23	2361	623	31	1291
Steering-gear of vessels. Lock for	G. H. Taylor	330,510	June 23	2148	567	31	1409
Steering machinery	H. Winter and W. C. Williamson	318,068	May 19	1533	411	31	221
Steering mechanism for ferry-boats	J. P. Manton	317,817	May 12	1193	317	31	759
Steering-wheels. Bracket-clamp for	A. Dole	311,110	Jan. 20	1253	343	30	926
Stem-setting device	E. A. Marsh	324,570	Aug. 13	1580	436	32	626
Stem winding and setting mechanism	E. B. Douglass	325,584	Sept. 1	502	125	32	1111
Stench-trap	J. A. Paine	330,148	Nov. 10	982	256	33	200
Stencil	F. Beck	316,225	Apr. 21	1719	451	31	865
Stencil	F. Beck	318,943	June 2	7	3	31	1659
Stencil	M. Bendick	325,041	Aug. 25	2235	613	32	994
Stencil-holder	J. J. Callow	313,470	Mar. 10	605	156	30	894
Stencil-plate	W. J. Miller	329,476	Nov. 3	69	19	33	318
Stencil-plate holder	H. E. Richter	312,384	Feb. 17	1266	349	30	686
Steno-typograph	A. Beverlen	331,275	Dec. 1	10	3	33	1009
Stenographer's use. Line-finder for	A. and W. Nimmo	332,410	Dec. 15	1703	446	33	1215
Step and end-gate. Combined	E. R. Fish	325,665	Sept. 8	599	151	32	1123
Step. Door and terrace	E. N. and W. J. Gilfillan	314,374	Mar. 24	1807	420	30	1129
Steps. Folding	D. B. Rice, C. N. Sword, and F. M. Wilder	310,226	Jan. 6	82	22	30	18
Stereoscope	J. Lyons	327,449	Sept. 29	3006	785	32	1309
Stereoscope	G. Schneck	318,302	May 19	1831	491	31	878
Stereoscope. Reflecting	A. K. Tuttle	313,699	Mar. 17	1176	306	30	1013
Stereotype-block	M. Joyce	327,798	Oct. 6	385	100	33	67
Stereotype-boxes. Fastening for	E. E. Pratt	324,956	Aug. 25	2121	580	32	941
Stereotype-matrices. Apparatus for making	J. X. Browne	332,873	Dec. 22	2359	624	33	1292
Stereotype-matrices. Machine for producing	O. Mergenthaler	312,145	Feb. 10	922	251 252 253 254	30	598
Stereotype or matrix making machine	J. L. Poalk	331,438	Dec. 1	262	71	33	1045
Stereotype-plate	M. Crane and J. L. Firm	311,175	Jan. 27	1351	370	30	269
Stereotype-plate and holder	E. R. Booth	327,648	Oct. 6	201	49	33	36
Stereotype-plate and securing it in printers' forms	J. R. Cummings	325,324	Sept. 1	126	35	32	1039
Stereotype-plate holder	A. Z. Boda and L. Klopsch	323,557	Aug. 4	231	68	32	561
Stereotype-plate holder	E. E. Pratt	311,524	Feb. 3	59	26	30	306
Stereotype-plate-roughing machine	G. E. Lloyd	333,018	Dec. 22	2562	674	33	1477
Stereotype-plate-shaving machine	E. A. Blake	327,857	Oct. 6	456	118	33	89
Stereotype-plate-trimming machine	E. A. Blake	327,856	Oct. 6	455	118	33	89
Stereotype-plates. Impression-sheet for making	C. A. Skene	320,713	June 23	2412		31	1512
Stereotype-plates. Machine for mending	J. North	333,325	Dec. 29	2094	784	33	1509
Stereotype-plates. Machine for shaving	W. J. Johnson	315,794	Apr. 14	1137	298	31	213
Stereotype-plates. Machine for shaving curved	A. D. McLean	314,391	Mar. 24	1829	467	30	1144
Stereotype-plates. Machine for trimming	E. E. Pratt and C. S. Partridge	316,396	Apr. 21	1950	514	31	365
Stereotype-shaving machine	J. W. Smith	318,579	Apr. 22	2198	579	31	418
Stiffening-strip and producing the same	E. K. Warren	311,621	Feb. 3	216	61	30	369
Still	G. R. Bruchmann	325,798	Sept. 8	692	173	32	1140
Still	D. Horan	323,464	Dec. 29	3174	829	33	1320
Still	M. V. Monarch	323,055	Sept. 8	974	248	32	1203
Still and filter	R. C. Clark and M. H. Warren	314,606	May 26	2268	639	31	923
Still. Beer	W. J. O'Connor, P. Walsh, and E. L. Martin	328,708	Oct. 20	1586	413	33	303
Still. Combined beer and spirit	D. S. Brown and L. Siph	320,535	June 23	2181	576	31	1467
Still for concentrating sulphuric acid	C. A. Bartsch	318,682	May 26	2247	627	31	979
Still. Pharmaceutical	J. Berry	313,163	Mar. 3	175	42	30	689
Stirrer. Fruit-butter	J. P. and J. M. Lucas	310,632	Apr. 28	2264	596	31	429
Stirrup	W. F. Birge	325,902	Sept. 8	908	228	32	1190
Stirrup	J. P. Ellacott	313,444	Mar. 10	621	161	30	901
Stirrup	H. Langhlin	321,984	July 14	790	205	32	129
Stirrup	W. H. Ratcliff	319,123	June 2	237	62	31	1091
Stirrup	F. M. Turner	320,194	June 16	1669	444	30	1200
Stirrup. Saddle	S. A. Nolen	313,609	Mar. 10	778	204	30	823
Stirrup. Safety	H. Coates	332,052	Dec. 8	1196	313	33	1221
Stitch-forming mechanism. Apparatus for guiding, straightening, and evening fabrics for presentation to	S. Arnold	313,969	Mar. 17	1192	310 311	30	1015
Stitch mechanism. Imitation	E. L. Wheeler	325,297	Sept. 1	94	26, 27	32	1033
Stitch regulating and feeding device	E. Murphy	315,955	Apr. 14	1362	352	31	222
Stitches. Mechanism for making zigzag or irregular	J. Bigelow	313,901	Mar. 10	1039	267	30	976
Stock and collar	B. J. Kolb	330,131	Nov. 10	963	250	33	985
Stock-holder	T. B. Fagan	316,763	Apr. 28	2471	645	31	467
Stock-rack	M. L. Robinson	313,373	Mar. 3	471	122 123	30	864
Stock-rack	J. O. Taft	315,677	Apr. 14	871	254	31	128
Stock-rack	J. L. Wilber	328,868	Oct. 20	1778	464	33	1340
Stock-releasing device	F. Arnold	324,742	Aug. 18	1818	509	32	677
Stock-releasing device	M. W. Hanley	331,396	Dec. 1	197	51	33	1033
Stocking	S. Appleton	323,287	July 28	2561	669	32	416
Stocking	C. E. Norris	311,356	Jan. 27	1610	440	30	1192
Stocking	B. F. Ryer	319,131	June 2	246	64	31	1022
Stocking-exhibitor	J. D. and G. W. Hibbs	332,524	Dec. 15	1863	498	33	1343

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Stocking or garment supporter.	S. B. Ferris	314,813	Mar. 31	2415	638	30	1277
Stocking or sleeve supporter.	E. Oppenheimer	318,201	May 19	1702	456	31	854
Stocking-supporter.	J. P. Lindsay	319,985	June 11	1395	367	31	1318
Stocking-supporter.	C. C. Shelby	320,301	June 16	1823	484	31	1304
Stockings. Frame for stretching and drying.	W. C. Perkins	324,880	Aug. 25	2021	554	32	921
Stoker. Mechanical.	J. Hodgkinson	322,605	July 21	1813	426	32	309
Stone and ore crusher.	D. Brennan, Jr	315,468	Apr. 14	676	170	31	128
Stone and ore crusher.	D. Brennan, Jr	315,469	Apr. 14	678	176	31	127
Stone and ore crusher.	W. A. Miles	319,741	June 9	1040	975	31	1249
Stone and potato fork.	W. O. Noyes	310,058	Jan. 20	1036	280	30	204
Stone. Apparatus for the manufacture of artificial.	C. I. Walker	311,694	Feb. 3	306	82, 84	30	406
Stone. Artificial.	J. D. King	312,356	Feb. 17	1235		30	593
Stone. Artificial flag.	A. S. Sampson and D. G. Peck	315,557	Apr. 14	819	215	31	152
Stone-boat.	S. B. Schermerhorn	320,178	June 16	1647	438	31	1364
Stone. Composition for the manufacture of artificial.	J. L. Wray	312,057	Feb. 10	204		30	506
Stone. Composition of matter for facing brown stone and for making artificial.	B. E. Ratcliffe	321,137	June 30	2267		31	1620
Stone compositions. Manufacture of artificial.	C. I. Walker	311,156	Jan. 20	1316		30	256
Stone-cutter's chisel.	T. Woods	322,872	Nov. 3	606	155	33	618
Stone-cutting machine.	J. Crump and R. Brereton	318,962	June 2	43	11	31	1056
Stone-cutting machine.	W. L. Saunders	320,293	June 16	1813	481	31	1392
Stone-cutting machine.	W. A. Wright	333,486	Dec. 29	3132	819	33	1563
Stone-cutting machines. Centering device for.	J. W. Maloy	329,325	Oct. 27	2405	637	33	470
Stone-dressing machine.	H. Donnelly	332,999	Dec. 22	2535	608	33	1472
Stone-dressing machine.	J. Mann	320,942	June 30	2706	718	31	1573
Stone-dressing machine.	F. Manning	332,915	Dec. 22	2411	637	33	1450
Stone-dressing machine.	F. Manning	332,916	Dec. 22	2412	638	33	1451
Stone-dressing machine.	J. B. Ross	315,062	Apr. 14	1371	355	31	254
Stone-drilling machine.	L. McMurray	311,092	Jan. 20	1216	333	30	229
Stone-gathering machine.	B. A. Weatherbee	312,237	Feb. 10	1058	291	30	552
Stone-lifter.	D. English	322,813	July 21	1882	499	32	358
Stone-lifter.	R. N. Gowell	313,491	Mar. 10	622	163	30	903
Stone-lifter.	T. Heathcote	314,243	Mar. 24	1626	430	30	1105
Stone lifter and carrier.	R. J. Hsauer	329,329	Oct. 27	2565	609	33	467
Stone lifting and carrying machine.	W. E. Barber	327,989	Oct. 13	622	106	33	121
Stone. Method of and compound for preserving.	T. Egleston	323,128	July 28	2341		32	450
Stone or marble. Artificial.	W. H. Stearns, Jr	321,459	July 7	68		32	15
Stone or marble. Manufacture of artificial.	S. Mixer	326,317	Sept. 15	1478		32	1303
Stone-polishing machine.	J. W. Maloy	327,228	Sept. 29	2792	726	32	1553
Stone. Producing imitation.	H. S. Utley	315,188	Apr. 7	296		31	53
Stone-sawing machine.	R. L. Barney	313,643	Mar. 10	819	214	30	939
Stone-sawing machine.	V. G. Barney	312,068	Feb. 10	819	224	30	508
Stone-sawing machine.	J. H. Frenier	315,608	Apr. 14	878	231	31	163
Stone-sawing machine.	P. Gay	311,741	Feb. 3	362	100	30	417
Stone-sawing machine.	J. G. Hsfer	322,821	July 21	1698	503	32	361
Stone-sawing machine.	J. Peckover	330,614	Nov. 17	1582	423	33	823
Stone-sawing machines. Machine for feeding sand and water to.	D. Shortleeve	331,562	Dec. 1	443	115	33	1076
Stone-sawing machines. Sand and water feed mechanism for.	W. L. Saunders	315,171	Apr. 7	237	62	31	47
Stone sawing or rubbing machines. Sand and water feeding mechanism for.	E. J. Hawley	321,293	June 30	3158	842	31	1656
Stone scouring and polishing machine.	H. Young	314,905	Mar. 31	2543	672	30	1299
Stone-worker's lathe.	J. O. Messerly	314,462	Mar. 24	1915	511	30	1160
Stone-working machine.	P. Christa	329,274	Oct. 27	2384	616	33	456
Stones. Holder for the settings of.	S. Joel	319,095	June 2	203	53	31	1085
Stones. Setting real and artificial.	J. F. Mable	322,191	July 14	1068	277	32	203
Stool and foot-support. Shoe-dealer's.	G. K. Jenkins	315,507	Apr. 14	731	104	31	137
Stool and like articles. Piano.	W. A. C. Matthie	320,467	June 23	2117	558	31	1456
Stool and seat.	A. Luger	329,179	Oct. 27	2246	581	33	430
Stool back. Piano.	J. D. Baldwin	313,642	Mar. 10	819	214	30	939
Stool. Folding.	A. B. Harnish	318,110	May 19	1586	424	31	831
Stool. Folding camp.	A. H. Hill	317,785	May 12	1143	303	31	740
Stool. Folding camp.	I. Hogeland	329,903	Nov. 10	652	166	33	634
Stool for tables, counters, &c.	J. Whipple	317,254	May 5	444	110	31	604
Stool. Music.	G. A. Ramseyer	325,443	Sept. 1	308	75	32	1074
Stool-pedestal.	J. S. Dunlap	320,916	June 30	2675	710	31	1568
Stool. Piano.	C. W. Blackburn	325,044	Aug. 25	2238	614	32	962
Stool. Piano.	E. B. Haynes	315,779	Apr. 14	1118	293	31	210
Stool. Piano.	A. J. Kedney	321,113	June 30	2939	779	31	1614
Stool. Piano.	F. Kracmer	329,654	Nov. 3	307	79	33	563
Stool. Piano.	W. A. C. Matthie	316,281	Apr. 21	1709	472	31	339
Stool. Piano.	H. T. Merrill	324,143	Aug. 11	994	274	32	715
Stool. Piano.	F. Ohr	315,323	Apr. 7	466	118	31	85
Stools, &c. Adjustable column or stand for.	H. Hardy	314,831	Mar. 31	2440	644	30	1222
Stop. Automatic.	T. Puetz, Jr	320,851	Nov. 17	1891	511	33	821
Stop-box.	P. White	325,278	Sept. 1	96	27	32	1033
Stop-motion. Automatic.	A. W. Weeks	329,520	Nov. 3	133	35	33	530
Stop-motion. Automatic safety.	A. C. and A. F. Dumke	331,689	Dec. 1	670	166	33	1116
Stop-motion for hemp-spreaders, &c. Measuring.	J. Good	311,978	Feb. 10	707	194	30	486
Stopper.							
See Bottle-stopper.	Jug-stopper.						
Bottle and jar stopper.	Ladle-stopper.						
per.	Rope-stopper.						
Jar-stopper.							
Stopper.	A. R. Thayer	318,325	May 19	1870	502	31	884
Stopper for fruit-jars, &c.	T. Kennedy	320,364	June 16	1939	511	31	1414

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Stopple-receptacle	L. S. Hoyt	315,504	Apr. 14	728	193	31	136
Storage-batteries. Electrolytic liquid for.	W. E. Case	313,058	Mar. 3	32		30	784
Storage-batteries. Preparing the elements of.	A. K. Epton	311,236	Jan. 27	1439	392	30	995
Store casing or finishing	R. W. Bates	324,518	Aug. 18	1517	418	32	819
Store-service apparatus	G. A. Badger	324,210	Aug. 11	1105	278	32	736
Store-ser ice apparatus	I. Birgé	325,382	Sept. 1	218	56	32	1056
Store-service apparatus	I. Birgé	325,383	Sept. 1	220	56	32	1056
Store-service apparatus	I. Birgé	325,384	Sept. 1	221	56	32	1056
Store-service apparatus	I. Birgé	325,385	Sept. 1	224	57	32	1057
Store-service apparatus	L. G. Bostedo	330,552	Nov. 17	1509	404	33	808
Store-service apparatus	L. G. Bostedo	330,553	Nov. 17	1511	404	33	808
Store-service apparatus	E. Chapman	326,845	Sept. 22	2201	574	33	1441
Store-service apparatus	M. Clark and J. T. Cowley	312,087	Feb. 10	848	232	30	514
Store-service apparatus	M. Clark and J. T. Cowley	312,088	Feb. 10	849	232	30	514
Store-service apparatus	M. Clark and J. T. Cowley	312,089	Feb. 10	851	233	30	515
Store-service apparatus	M. Clark and J. T. Cowley	312,090	Feb. 10	852	234	30	515
Store-service apparatus	M. Clark and J. T. Cowley	312,091	Feb. 10	854	234	30	515
Store-service apparatus	J. T. Cowley	315,739	Apr. 14	1001	278	31	199
Store-service apparatus	D. E. Crosby	321,343	June 30	3217	852	31	1088
Store-service apparatus	C. Fisher	314,814	Mar. 31	2410	630	30	1277
Store-service apparatus	J. Goodale	327,788	Oct. 6	367	95	33	65
Store-service apparatus	R. Gornall	319,402	June 2	567	154	31	1156
Store-service apparatus	R. Gornall	319,403	June 2	571	155	31	1156
Store-service apparatus	H. H. Hayden	321,294	June 30	3159	843	31	1057
Store-service apparatus	J. R. H. Hinton	333,302	Dec. 29	2965	775	33	1355
Store-service apparatus	C. B. Keen	311,328	Jan. 27	1572	428	30	303
Store-service apparatus	R. A. McCarty	325,427	Sept. 1	285	70	32	1070
Store-service apparatus	R. A. McCarty	325,618	Sept. 1	522	131	32	1116
Store-service apparatus	R. H. North	332,674	Dec. 15	2021	546	33	1381
Store-service apparatus	S. G. North	323,952	Aug. 11	736	206	32	669
Store-service apparatus	S. G. North	325,435	Sept. 1	294	72, 73	32	1071
Store-service apparatus	S. G. North	325,436	Sept. 1	295	73	32	1072
Store-service apparatus	E. P. Osgood	312,772	Feb. 24	1766	480	30	701
Store-service apparatus	E. P. Osgood	312,753	Feb. 24	1767	486	30	701
Store-service apparatus	C. W. Smith	330,629	Nov. 17	1601	428	33	836
Store-service apparatus switch	E. L. Giles	310,815	Jan. 13	835	226	30	163
Store-service apparatus. Switch for	E. L. Giles	332,339	Dec. 15	1603	421	33	1299
Store-service car	W. S. Hill	333,300	Dec. 29	2959	773	33	1354
Store-service receiver	C. Fisher	314,815	Mar. 31	2417	639	30	1278
Store-service tracks. Turn-out for	W. H. and F. L. Wiggin	310,765	Jan. 13	779	210	30	153
Storm-shield and overdress. Combined.	M. Boyd	318,538	May 26	2154	550	31	946
Stove	E. W. Anthony	320,111	June 16	1566	413	31	1340
Stove	L. F. Betts	326,346	Sept. 15	1562	405	32	1318
Stove	B. A. Bridgen and E. Cannon, Jr.	320,620	June 23	2228	606	31	1489
Stove	T. Burkhard	310,647	Jan. 13	624	172	30	136
Stove	T. Burkhard	322,590	July 21	1587	418	32	304
Stove	M. B. Crocker	314,286	Mar. 24	1691	451	30	1117
Stove	M. W. Gardner	311,653	Feb. 3	255	71	30	396
Stove	C. Lancaster	322,731	July 21	1777	469	32	339
Stove	D. Lindahl	311,592	Feb. 3	181	51	30	382
Stove	W. H. Logan	318,380	May 19	1945	543	31	892
Stove	J. W. and W. H. Owen and A. C. Boswell	312,651	Feb. 24	1627	448	30	676
Stove	J. Shanber	312,662	Feb. 24	1643	453	30	679
Stove	W. C. Smith	327,336	Sept. 29	2859	746	32	1264
Stove	H. Turner	315,574	Apr. 14	843	221	31	156
Stove	L. W. Turner and G. J. Capewell	310,623	Jan. 13	593	163	30	119
Stove	W. E. Walker	313,560	Mar. 10	714	187	30	919
Stove	S. A. H. Williamson	314,093	Mar. 17	1437	376	30	1061
Stove	G. G. Wolfe	313,568	Mar. 10	723	190	30	921
Stove	A. T. Young	323,250	July 28	2511	696	32	461
Stove. Alcohol	H. Clayton	319,955	June 16	1352	335	31	1310
Stove and boiler	I. P. Vance	322,216	July 14	1097	285	32	208
Stove and furnace grate	D. L. Swinton	328,438	Oct. 13	1223	317	33	821
Stove and furnace pipe. Asbestos or amianthus	A. R. Bennett	326,093	Sept. 15	1161	297	32	1244
Stove and furnace. Smoke-consuming	S. H. Weston	319,870	June 9	1223	323	31	1280
Stove and heater	S. H. La Rue	324,944	Aug. 25	2100	575	32	417
Stove and oven. Portable	A. P. Steward	328,783	Nov. 3	481	121	33	306
Stove and range oven. Cooking	D. G. Littlefield	313,874	Mar. 17	1140	289	30	497
Stove and range water-heater	J. A. Price	312,017	Feb. 10	762	207	30	1192
Stove attachment	P. Lahr	331,797	Dec. 8	818	306	33	271
Stove attachment. Gasoline	J. and N. Forshaw	311,162	Jan. 27	1360	373	32	770
Stove-back	T. W. Wood	324,346	Aug. 11	1286	346	31	676
Stove-board	W. P. Cole	317,512	May 12	797	204	32	514
Stove-bracket	J. H. Whisemore	323,380	July 28	2702	718	32	533
Stove burner. Gas	A. W. Beall	320,527	Nov. 3	146	37	31	1206
Stove. Cabinet gasoline	F. C. Rawlings	320,691	June 23	2218	631	32	1096
Stove. Coal	S. H. Fales	331,622	Dec. 1	573	140	33	254
Stove. Coal-oil	C. F. Parker and L. E. Marquiseo	328,511	Oct. 20	1307	340	33	254
Stove. Coal-oil	C. Riessner	311,259	Jan. 27	1469	401	30	221
Stove. Cooking	N. O. Bond	315,383	Apr. 7	543	140	31	99
Stove. Cooking	C. F. Hanneman	312,461	Feb. 17	1374	379	30	680
Stove. Cooking	J. H. Harper and D. V. Brooks	326,867	Sept. 22	2237	583	32	1447

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Stove. Cooking.....	G. R. Prowse.....	320,409	June 23	2135	{ 563	31	1459
Stove. Cooking.....	E. W. Van Duzen, Jr.....	317,895	May 12	1295	{ 564	31	769
Stove. Cooking.....	J. R. Webb.....	324,055	Aug. 11	873	241	31	62
Stove-door.....	W. L. McDowell.....	311,771	Feb. 3	403	110	30	424
Stove-door frame.....	C. Farrell.....	333,401	Dec. 29	3088	805	33	1576
Stove-door handle.....	J. G. Whitlock.....	312,940	Feb. 24	2008	548	30	743
Stove-door hanger.....	W. Jaques.....	313,740	Mar. 10	954	246	30	933
Stove-door knob.....	W. J. Irwin.....	311,763	Feb. 3	393	107	30	422
Stove-door knob.....	H. A. Tweed.....	310,644	June 9	920	243	31	1226
Stove fire-grate.....	J. Doheny.....	312,261	Feb. 17	1096	303	30	567
Stove foot-bar.....	H. A. Matthews.....	312,877	Feb. 24	1935	529	30	770
Stove. Gas.....	J. W. Baker.....	326,029	Sept. 15	1157	{ 295	32	1243
Stove. Gas.....	T. Fletcher.....	316,027	Apr. 21	1455	{ 296	31	277
Stove. Gas.....	T. Fletcher.....	322,532	July 21	1597	379	31	366
Stove. Gas.....	W. M. Jackson.....	310,946	Jan. 20	1019	422	32	201
Stove. Gas.....	W. M. Jackson.....	310,947	Jan. 20	1020	276	30	201
Stove. Gas.....	H. Zachetzsachingek.....	315,210	Apr. 7	333	277	30	60
Stove. Gas cooking.....	W. N. Milsted. (Reissue).....	10,577	Apr. 7	658	189	31	117
Stove. Gasoline.....	S. Lightburne, Jr.....	322,327	July 14	1314	{ 170	32	249
Stove-grate.....	F. H. DeGuerre and W. W. De Lano.....	315,255	Apr. 7	383	342	32	110
Stove-grate.....	H. W. Merritt.....	317,166	May 5	324	95	31	70
Stove-grate.....	R. Walker.....	313,027	Mar. 10	889	81	31	522
Stove-grate.....	H. H. Wheeler.....	320,893	Nov. 3	900	222	30	953
Stove-grate. Coal-burning.....	D. E. Paris.....	329,206	Oct. 27	2293	154	33	617
Stove-griddle.....	F. L. Carpenter.....	316,741	Apr. 28	2441	594	33	438
Stove. Heating.....	E. W. Anthony.....	318,847	May 26	2574	636	31	461
Stove. Heating.....	M. J. S. Boeyle.....	324,074	Aug. 11	903	685	31	1018
Stove. Heating.....	J. Boyd.....	327,650	Oct. 6	203	249	32	698
Stove. Heating.....	E. L. Caley.....	321,021	July 7	361	50	33	36
Stove. Heating.....	A. V. Cook.....	316,605	Apr. 28	2231	86	32	68
Stove. Heating.....	J. H. Keyser.....	325,678	Sept. 8	615	587	31	424
Stove. Heating.....	S. H. La Rue.....	310,396	Jan. 13	562	156	32	1136
Stove. Heating.....	P. K. McMinn.....	310,904	Jan. 20	951	136	30	114
Stove. Heating.....	J. O'Keefe.....	325,857	Sept. 8	860	259	30	191
Stove. Heating.....	J. B. Oldershaw.....	329,069	Oct. 27	2095	{ 216	32	1181
Stove. Heating.....	O. Peterson.....	319,018	June 2	106	217	33	402
Stove. Heating.....	W. C. Smith.....	331,455	Dec. 1	295	544	33	402
Stove. Heating.....	E. Specht and L. Fix.....	310,934	June 9	1317	29	31	1068
Stove. Heating.....	W. E. Walker and G. E. Wilbur.....	329,516	Nov. 3	123	78	33	1049
Stove heating attachment.....	M. G. McGuire.....	318,774	May 26	2470	347	31	1297
Stove heating attachment.....	L. W. Turner.....	321,400	June 30	3298	32	33	528
Stove. Heating gas.....	A. J. Doty.....	331,950	Dec. 8	1044	662	31	1002
Stove-hood.....	H. M. Brush.....	313,055	Dec. 22	2607	881	31	1683
Stove-hood.....	A. S. Fisk.....	310,398	Jan. 6	313	271	33	1105
Stove-hood.....	M. C. Fisher.....	312,712	Feb. 24	1711	683	33	1485
Stove. Hot-air.....	R. A. Rew.....	328,809	Oct. 20	1706	87	30	61
Stove. Hot-air.....	P. H. Shus and P. Hohmeier.....	316,493	Apr. 28	2094	470	30	691
Stove. Hot-blast.....	F. W. Gordon.....	314,573	Mar. 31	2080	444	33	327
Stove. Hot-blast.....	D. Lamond.....	311,190	Jan. 27	1370	{ 548	31	397
Stove. Hot-blast.....	J. O. B. Richards.....	315,072	Apr. 7	119	{ 555	30	1215
Stove. Hot-blast.....	W. Rothoff.....	312,902	Feb. 24	1959	{ 556	30	273
Stove. Lamp.....	J. E. Stephens.....	327,613	Oct. 6	147	376	31	23
Stove. Laundry.....	F. J. Moeller.....	327,706	Oct. 6	270	28	33	734
Stove-leg.....	C. R. Haverly and G. E. Gary.....	325,171	Aug. 25	2396	35	33	27
Stove-leg attachment.....	O. F. Mitchell.....	318,278	May 19	1800	67	33	48
Stove lifter, rake, and poker. Combined.....	J. P. Beck.....	323,845	Aug. 4	594	659	32	991
Stove. Oil.....	F. A. Abendroth.....	325,471	Sept. 1	339	481	31	872
Stove. Oil.....	Z. Davis.....	316,751	Apr. 28	2456	187	32	635
Stove. Oil.....	J. McConnell.....	322,949	July 28	2089	82	32	1080
Stove. Oil.....	H. E. Myers.....	319,013	June 9	101	97	31	1067
Stove. Oil.....	J. F. Quimby.....	313,525	Mar. 10	670	175	30	910
Stove. Oil.....	C. O. Schwartz.....	329,598	Nov. 3	239	62	33	551
Stove. Oil.....	E. R. Walker.....	313,696	Mar. 10	886	{ 231	30	952
Stove. Oil-burning.....	J. F. Trout.....	332,307	Dec. 15	1556	{ 232	33	1290
Stove. Oil or gas.....	W. A. Greene.....	314,929	Mar. 31	2573	{ 408	30	1304
Stove or furnace. Heating.....	C. L. Ridgway.....	318,295	May 19	1892	{ 611	31	876
Stove or furnace regulating device.....	S. W. Jackson.....	322,610	July 21	1623	{ 612	32	311
Stove or heater.....	T. J. Trew.....	314,205	Mar. 17	1577	418	30	1086
Stove or range.....	J. A. Price.....	321,527	July 7	167	45	32	33
Stove or range.....	W. H. Swanton.....	329,416	Oct. 27	2607	473	33	493
Stove-oven cover.....	O. W. Noble.....	323,825	Aug. 4	566	161	32	630
Stove-oven. Gas, oil, and vapor.....	R. M. Cain.....	322,418	July 21	1357	354	32	264
Stove. Parlor heating.....	J. A. Orr and H. Seivard.....	311,139	Jan. 20	1293	{ 355	30	253
Stove. Parlor heating.....	J. A. Orr and H. Seivard.....	311,140	Jan. 20	1294	{ 356	30	253
Stove-pipe.....	G. W. Beebe.....	314,783	Mar. 31	2380	356	30	1270
Stove-pipe.....	D. R. Clark.....	318,167	May 19	1660	629	31	845
Stove-pipe.....	M. Mealy.....	327,705	Oct. 6	269	445	31	845
Stove-pipe.....	L. Paré and H. Reichenbach.....	324,154	Aug. 11	1015	68	33	48
Stove-pipe.....	H. M. Pickering.....	311,143	Jan. 20	1300	278	32	719
Stove-pipe attachment.....	C. J. Hamilton.....	331,637	Dec. 1	598	358	30	254
Stove-pipe attachment.....	C. W. McCutchen.....	314,259	Mar. 24	1648	147	33	1102
Stove-pipe. Decorated.....	A. R. Bennett.....	326,094	Sept. 15	1162	437	30	1109
Stove-pipe elbow.....	A. W. Cram.....	319,824	June 9	1247	297	32	1244
					329	31	1284

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Stove-pipe elbow	T. S. Evans and E. H. Bissett	313,856	Mar. 17	1122	291	30	1002
Stove-pipe fastener or clamp	H. W. Goodwin	321,808	July 7	542	143	32	101
Stove-pipe hanger and fastener. Adjustable	J. Stewart	312,924	Feb. 24	1986	542	30	739
Stove-pipe heating attachment	J. H. Broadus	314,433	Mar. 24	1867	427	30	1151
Stove-pipe joint	W. N. Loughlin	319,102	June 2	911	55	31	1066
Stove-pipe. Sheet-metal	J. S. Brooks	330,770	Nov. 17	1788	481	33	892
Stove-pipe shelf	J. Kurtis	319,101	June 2	909	54	31	1066
Stove-pipe shelf and drum	J. Allingham	314,413	Mar. 24	1854	494	30	1149
Stove-pipe shelf. Portable	E. Bernard	318,941	June 2	4	1	31	1066
Stove-pipe thimble	J. H. Jongwer	316,356	Apr. 21	1887	500	31	335
Stove-pipe thimble	D. R. Robins	312,018	Feb. 10	762	208	30	497
Stove-pipe thimble	G. W. Woodborne	315,988	Apr. 14	1408	364	31	269
Stove-pipe thimble. Adjustable	A. B. Kingsland	313,342	Mar. 3	432	109	30	856
Stove-pipe thimble or sleeve	J. Schenermann	327,331	Sept. 29	2835	740	32	1561
Stove-pipe ventilator	J. Conba	313,809	Mar. 10	1048	280	30	869
Stove-pipe ventilator	J. P. Krabill	313,828	Mar. 10	1067	275	30	879
Stove-pipe ventilator	W. St. Mielcarek	321,394	June 30	3689	679	31	1632
Stove-pipe water-cup	S. T. Atkin	313,273	Mar. 3	343	85	30	836
Stove-platform	I. Van Hagen	312,533	Feb. 24	1996	546	30	742
Stove-platforms. Heater for the crystallisation of	I. Van Hagen	312,534	Feb. 24	1999	547	30	742
Stove-polish	A. N. Bender	329,529	Nov. 3	148		33	633
Stove-polish	W. T. Seo	332,756	Dec. 22	2201		33	1411
Stove-polish. Device for holding and mixing	R. Rietschlin	317,579	May 12	676	225	31	690
Stove. Regenerative gas.	J. W. Baker	319,438	June 9	633	171	31	1175
Stove. Reservoir.	G. H. Matthews	327,572	Oct. 6	92	30	33	17
Stove-shelf	T. Kehoe	313,940	Mar. 17	1248	325	30	1084
Stove. Summer cooking	E. F. Gordon and H. Hobbs	323,665	Aug. 4	373	106	32	592
Stove. Vapor.	Z. Davis	311,459	Jan. 27	1745	475	30	941
Stove. Vapor.	Z. Davis	313,925	Mar. 17	1228	319	30	1021
Stove. Vapor.	T. Johnson	317,946	May 12	1360	365	31	731
Stove. Vapor.	F. A. Lyman	324,947	Aug. 25	2108	576	32	932
Stove. Vapor.	F. Marquart	327,568	Oct. 6	86	19	33	16
Stove. Vapor.	J. M. Palmer	328,005	Oct. 20	1444	376	33	272
Stove. Vapor-burner	W. Blicner	377,647	Oct. 6	200	49	33	36
Stove. Vapor-burner	Z. Davis	323,120	July 28	2230	618	32	448
Stove. Vapor-burner	Z. Davis	325,592	Sept. 1	499	125	32	1110
Stoves and furnaces. Adjustable grate for	J. Stever	327,615	Oct. 6	150	36	33	28
Stoves and grates. Balance-door for	G. Wellhouse	323,379	July 28	2700	718	32	514
Stoves and ranges. Top plate for cooking	J. Forbes	328,580	Oct. 20	1407	366	33	271
Stoves. Combined fire-box, grate, and sifter for	I. J. Wells	317,901	May 12	1305	349	31	771
Stoves. Combined steeper and heat-distributor for oil.	B. Hunt	314,334	Mar. 24	1753	467	30	1129
Stoves. Feeding-chute for	W. D. Mayfield	312,739	Feb. 24	1749	481	30	697
Stoves, fire-bricks, &c. Compound for repairing	E. Ivett and A. George	314,122	Mar. 17	1551		30	1061
Stoves. Fire-chamber for cook.	W. C. Smith	330,935	Nov. 24	3008	543	33	910
Stoves for heating air. Attachment to	G. A. Vaughan	312,678	Feb. 24	1663	458	30	692
Stoves, &c. Hinge for	H. Pretschold	322,394	July 14	1322	344	32	251
Stoves. Lid for gas	S. B. Long	325,683	Sept. 8	620	157	32	1137
Stoves, &c. Portable elevated platform for	M. G. Touley	315,573	Apr. 14	843	221	31	176
Stoves. Producing heat in portable	W. M. Jackson	310,498	Jan. 20	1023	277	30	992
Stoves. Removable oven for combined coal and gas burning	H. H. Sheldon	312,172	Feb. 10	977	267	30	536
Stoves. Sliding top for oil	J. Milne	331,316	Dec. 1	81	20	33	1013
Stoves. Vapor-burner for	J. O. Alley	329,231	Oct. 27	2354	610	33	420
Stoves. Wick-adjuster for oil	R. P. Frost	314,928	Mar. 31	2572	660	30	1374
Straight-edge and gage. Combined	M. Cover	317,517	May 13	802	206	31	677
Straightening round bars. Machine for	N. Beauregard and G. J. Wheelock	330,531	June 23	2176	574	31	1466
Strainer. Coffee	W. D. Brown	322,780	Aug. 4	517	146	32	720
Strainer. Culinary	L. Kohn	313,676	Mar. 10	882	225	30	848
Strainer for funnels, &c.	F. O. Butterfield	324,080	Aug. 11	911	252	32	699
Strainer for sinks	C. H. Schrack	323,343	Dec. 29	3015	769	32	1564
Strainer. Liquid	J. L. Abell	321,677	July 7	647	168	32	117
Strainer. Milk	G. H. Cornell	310,494	Jan. 6	422	117	30	82
Strainer. Milk	F. Heyl	325,201	Sept. 8	792	199	32	1167
Strainer. Oil	W. Connolly	323,637	Aug. 4	337	96	32	565
Strap: See Box-strap. Shawl-strap. Car-strap. Trunk-strap. Hitching-strap. Yoke-strap. Pantaloons-strap.							
Strap-attaching device	J. T. Shannon	316,667	Apr. 26	2311	606	31	438
Strap-buckler and wrench combined	T. P. Evans	311,423	Jan. 27	1706	464	30	334
Strap-holder	R. L. Beaumont	322,151	July 14	1019	265	32	194
Straps with rings, &c. Device for connecting	J. C. Parmerlee and A. Swift	310,719	Jan. 13	717	195	30	142
Straw and other boards. Machine for lining	G. Munro	327,404	Sept. 29	2253	771	32	1102
Straw-board-lining machine	J. Albev	325,779	Sept. 8	761	190	32	323
Straw-burning furnace	J. Abell	316,216	Apr. 21	1709	448	31	1120
Straw-carrier	P. Grater and J. Seibel	331,703	Dec. 1	090	170	33	1638
Straw carrier	E. L. Hall	321,210	June 30	3060	812	31	150
Straw-carrier for stacking-machines	A. B. and M. T. Reeves	315,548	Apr. 14	804	212	31	1292
Straw-cutter	F. W. Miller	332,272	Dec. 15	1511	386	33	1460
Straw-cutter	F. L. Strobridge	326,923	Sept. 22	2311	603	32	1571
Straw-cutter	A. H. Wellington	327,365	Sept. 20	2901	757	32	1571
Straw-stacker	I. Brokaw and W. Butler	319,553	June 9	791	209	31	1203
Straw-stacker	I. Brokaw and W. Butler	322,249	July 14	1134	295	32	216
Straw-stacker	J. M. Gear	325,526	Sept. 1	421	104	32	1087

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr g.	Vol.	Page.
Straw-stacker.....	L. W. Hasselmann.....	311,317	Jan. 27	1553	493	30	306
Straw-stacker.....	J. H. and D. Meltzer and J. J. Baker.....	323,352	July 28	2663	709	32	507
Straw-stacker.....	A. Miller.....	311,137	Jan. 30	1290	354	30	252
Straw-stacker.....	A. B. M. T., and J. N. D. Reeves.....	328,252	Oct. 13	963	250	33	183
Straw-stacker.....	D. D. C. D., and P. J. Sprague.....	311,209	Jan. 27	1394	381	30	277
Straw-stacker.....	P. J. Sprague.....	326,801	Sept. 22	2140	537	32	1429
Straw-stackers. Base-pivot for.....	J. J. Moore and J. A. Ball.....	322,049	Oct. 13	704	185	33	134
Straw-stackers. Folding conveyer-trough for.....	J. J. Moore and J. A. Ball.....	324,477	Aug. 18	1462	400	32	809
Strawberry-vines. Device for cutting the runners of.....	W. M. Mason.....	331,804	Dec. 8	826	210	33	1153
Strawberry-vines. Tool for trimming.....	M. Richardson.....	326,787	Sept. 22	2124	553	32	1426
Street-receiver and stench-trap. Combined.....	D. W. McConnell.....	329,404	Oct. 27	2589	668	32	492
Street-sweeper.....	H. E. Paine.....	328,057	Oct. 13	720	188	33	136
Streets. Machinery for sweeping and conveying away refuse from.....	W. March.....	328,795	Oct. 20	1690	440	33	323
Stretcher.....	J. D. L. H., and C. M. Charles.....	324,228	Aug. 11	1126	306	32	739
Stretcher-frame.....	A. D. Shattuck.....	330,300	June 16	1821	484	31	1394
Structure designed to occupy the streets.....	R. R. Hazard.....	328,027	Oct. 13	676	177	33	129
Structure. Self-supporting.....	D. Bates.....	321,939	July 14	733	192	32	142
Stubble-digger.....	E. D. Melancon and L. L. Savoy.....	328,330	Oct. 13	1065	276	33	202
Stucco. Plastic compound to be used as a.....	E. and E. W. Marsh.....	321,621	July 7	289		32	65
Stud.....	G. N. March.....	329,754	Nov. 3	445	112	33	588
Stud and necktie-holder. Combined collar.....	C. Babcock.....	320,452	June 23	2077	547	31	1449
Stud for gloves, &c. Spring.....	A. G. Mead and E. F. Pierce.....	312,571	Feb. 17	1528	417	30	648
Stud. Lacing.....	M. Bray.....	329,903	Oct. 27	2371	613	33	454
Stud. Lacing.....	F. M. Piper and J. H. Reed.....	326,148	Sept. 15	1235	316	32	1257
Studs. Device for setting lacing.....	M. Bray.....	329,904	Oct. 27	2372	014	33	454
Stuffing-box.....	T. Barber.....	313,703	Mar. 10	999	234	30	954
Stuffing-box.....	A. T. Ballentine.....	317,902	May 19	1393	374	31	795
Stuffing-box.....	W. Dingle and W. Jenkins. (Reissue.).....	10,608	June 9	1338	352	31	1300
Stuffing-box.....	T. Murphy.....	329,202	Oct. 27	2286	592	33	437
Stuffing-box.....	F. Stitzel.....	323,750	Aug. 4	478	135	32	613
Stuffing-box.....	W. O. Webber.....	331,014	Nov. 24	2103	569	33	929
Stuffing-box for piston-rods of ice-machines, &c.....	G. F. Ott.....	329,675	Dec. 15	2083	647	33	1329
Stuffing-boxes. Gland-adjuster for.....	J. Powell.....	329,522	Sept. 15	1727	450	32	1349
Stamp-extractor.....	H. L. Boyle.....	310,644	Jan. 13	618	170	30	124
Stamp-extractor.....	W. H. Hall.....	328,775	Oct. 20	1663	433	33	319
Stamp-extractor.....	J. B. Heard.....	331,054	Nov. 24	2146	582	33	937
Stamp-extractor.....	K. S. Hunt.....	317,458	May 5	792	182	31	653
Stamp-extractor.....	F. R. Smith.....	318,810	May 26	2526	674	31	1010
Stamp-extractor.....	G. W. Stambaugh.....	314,619	Mar. 31	2135	568	30	1225
Stamp-extractor.....	J. B. Wilson.....	310,707	Jan. 13	781	211	30	153
Stamp-extractor and stone-lifter.....	W. O. White.....	322,368	Dec. 15	1647	432	33	1306
Stamp-puller.....	H. L. Bennett.....	326,095	Sept. 15	1162	297	32	1244
Stamp-puller.....	F. Blazier.....	322,781	July 21	1841	489	32	351
Stamp-puller.....	P. Hansen.....	313,335	Mar. 3	414	103	30	852
Stamp-puller.....	J. C. Karnatz and W. Wiese.....	319,726	June 9	1024	271	31	1246
Stamp-puller.....	J. W. Mayberry.....	330,994	Nov. 24	2082	564	33	924
Stamp-puller.....	J. L. Martin.....	326,310	Sept. 15	1471	383	32	1301
Stamp-puller.....	W. Schuster.....	328,720	Oct. 20	1607	418	33	307
Stamp-pulling machine.....	F. P. Margot.....	318,996	June 2	84	22	31	1063
Subdividing material in comminuted form. Apparatus for.....	J. R. Williams.....	330,078	Nov. 10	892	230	33	681
Submarine tunnels and tubes. Apparatus for laying.....	H. H. Hall.....	311,658	Feb. 3	260	72	30	397
Submarine wall.....	D. Spangler.....	325,127	Aug. 25	2342	645	32	981
Submerged bodies. Closing spaces between.....	C. Soovsmith.....	331,658	Dec. 1	623	154	33	1107
Sucker-rod for deep wells.....	J. M. Davidson.....	324,922	Aug. 25	2072	567	32	931
Sucker-rods. Machine for shaping the ends of.....	M. T. Collins.....	322,383	Oct. 13	1149	295	33	217
Sugar and glucose. Manufacture of grape.....	J. C. Schuman.....	318,309	May 19	1851	497	31	880
Sugar and glucose. Manufacture of grape.....	J. C. Schuman.....	320,403	June 16	2007		31	1428
Sugar, &c. Device for loosening.....	S. S. Aughe.....	332,179	Dec. 8	1383	357	33	1252
Sugar from juices, sirups, &c. Extracting.....	L. Lefranc.....	325,349	Sept. 1	155		32	1044
Sugar into blocks. Apparatus for cementing granulated.....	F. O. Matthiessen and O. H. Krause.....	318,640	May 26	2288	611	31	968
Sugar. Machining raw.....	G. M. Newhall and J. H. Tucker.....	331,023	Dec. 22	2571	676	33	1479
Sugar. Making hard sugar from soft.....	O. H. Krause.....	318,610	May 26	2277	608	31	966
Sugar. Manufacture of.....	M. De La Vega.....	330,098	Nov. 10	918		33	686
Sugar. Manufacture of.....	K. Trobach.....	322,079	July 14	919		32	175
Sugar. Manufacture of beet.....	E. F. Dyer.....	310,077	June 2	179		31	1081
Sugar. Manufacturing hydrated grape.....	L. Virniseil.....	310,839	Jan. 6	245		30	46
Sugar, &c., mixing, heating and drying apparatus.....	G. M. Newhall.....	321,746	July 7	449	119	32	81
Sugar. Removing the impurities of raw.....	F. O. Matthiessen.....	320,331	Oct. 27	2476	639	33	472
Sugar. Transforming soft sugar into hard.....	F. O. Matthiessen.....	318,639	May 26	2287		31	968
Sulky.....	T. J. McMurray and W. B. Fisher.....	324,140	Aug. 11	990	272	32	715
Sulky-frame.....	J. A. Johnson.....	319,264	June 2	400	106	31	1123
Sulky-rake.....	W. H. Hall.....	328,670	Oct. 20	1542	401	33	295
Sulpho-cyanides. Apparatus for making.....	U. De Guntzburg and J. Tcherniac.....	319,229	June 2	371	98,99	31	1117
Sulphur. Apparatus for refining.....	F. Dickert.....	310,127	Jan. 6	38	11	30	10
Sulphuric anhydride. Recovering.....	E. D. Kendall.....	323,583	Aug. 4	259	76	32	570
Sunshade.....	A. Lyon.....	320,503	June 23	2219	587	31	1475
Sunshade and umbrella.....	C. Drake.....	312,446	Feb. 17	1348	372	30	615
Superheater. Steam.....	J. W. Reed.....	310,225	Jan. 6	81	21	30	17
Superimposing and folding machine.....	A. Campbell.....	321,683	July 7	366	97,98	32	69
Superimposing and folding sheets. Mechanism for.....	W. Scott.....	331,091	Nov. 24	2201	596	33	947
Superphosphate. Manufacture of.....	F. Dibben.....	322,698	July 21	1739		32	333

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Supporter:							
See Abdominal support-er.	Hat or bonnet supporter.						
Belt-supporter.	Hose, sleeve, and garment supporter.						
Clothes-line supporter.	Napkin-supporter.						
Curtain-supporter.	Obstetrical supporter.						
Garment-supporter.	Sleeve-supporter.						
Garment or stocking supporter.	Stocking-supporter.						
Supporter for wearing-apparel.	Stocking or sleeve supporter.						
Supporting-bracket for spouts, pipes, &c.		D. Greenhoot.....	315,497	Apr. 14	721	190	31 134
Supporting device. Automatic		H. C. Durborow.....	329,823	Nov. 3	542	138	33 608
Suppositories. Composition for		A. Montant.....	315,650	Apr. 14	936	245	31 175
Surcingle		E. A. Hecker and C. F. McKhann.....	327,267	Sept. 29	2767		39 1549
Surface-plate		H. G. Farr.....	316,013	Apr. 28	2241	590	31 425
Surgeon's chair		P. O. Sundin.....	326,925	Sept. 22	2314	605	32 1400
Surgeon's or reclining chair		A. J. Marston.....	327,570	Oct. 6	89	20	33 17
Surgical and other instruments.	Hard-rubber spring-bar for	N. N. Horton.....	327,686	Oct. 6	251	62	33 44
Surgical blade and handle		R. Lockwood.....	323,698	Aug. 4	413	118	32 600
Surgical chair		C. Willms.....	327,846	Oct. 6	441	115	33 78
Surgical chair		A. P. Gould and H. R. Spencer.....	321,809	July 7	543	143	32 101
Surgical chair		G. Weber.....	313,636	Mar. 10	810	212	30 937
Surgical chairs and tables. Foot-rest for		H. E. Hildebrand.....	323,220	Dec. 29	2247	744	33 1533
Surgical instrument		M. W. Hassan.....	321,721	July 7	414	110	32 77
Surgical instrument		J. S. Poyner.....	322,188	July 14	1075	279	32 904
Surgical instrument		J. Somers.....	327,204	Sept. 29	2692	639	32 1336
Surgical-instrument handle		A. J. Unger.....	321,160	June 30	2285	794	31 1622
(Surgical) Illuminator. Electric mouth and throat.		E. T. Starr.....	313,782	Mar. 10	1009	261	30 974
(Surgical) Illuminator for the mouth and similar purposes. Electric		E. T. Starr.....	313,783	Mar. 10	1011	261	30 974
Surgical needle		G. Wackerhagen.....	312,408	Feb. 17	1298	358	30 606
Surveying-instrument		W. L. Curtis.....	313,657	Mar. 10	846	220	30 944
Surveying-instrument		J. Hale.....	313,494	Mar. 10	633	164	30 903
Surveying-instrument		C. E. Taft.....	311,386	Jan. 27	1654	452	30 394
Surveying-instrument. Air-line		J. A. Flower and E. B. Ruddock.....	324,017	Aug. 11	825	229	32 684
Surveyor's instrument		J. H. Dolman.....	313,659	Mar. 10	847	220	30 944
Suspender attachment		T. O. Potter.....	322,479	July 21	1450	380	32 220
Suspender-clasp		J. Elson.....	319,212	June 2	334	89	31 1110
Suspender-end		J. A. Adamson.....	318,339	May 19	1891	509	31 888
Suspender-end		J. B. Sharp.....	310,732	Jan. 13	731	200	30 145
Suspender-end attachment		H. Howard.....	330,488	Nov. 17	1433	3-3	33 724
Suspender-end loop		J. W. Smith.....	317,231	May 5	411	103	31 569
Suspender-ends. Device for attaching.		W. E. Clarke.....	322,785	Dec. 22	2236	569	33 1417
Suspender-ends. Wire tubular bearing for		G. F. Atwood.....	322,178	Dec. 8	1383	357	33 1222
Suspender-strap clasp		C. R. Harris.....	322,897	Dec. 22	2287	631	33 1445
Suspenders		C. B. Bird.....	326,194	Sept. 15	1302	337	32 1269
Suspenders		G. H. Boyd.....	322,479	Dec. 15	1791	470	33 1331
Suspenders		A. Brown.....	312,080	Feb. 10	838	228	30 516
Suspenders		J. T. Budd.....	329,433	Nov. 3	9	3	33 503
Suspenders		J. Cadbury and J. G. Rollason.....	312,063	Feb. 10	843	229	30 513
Suspenders		M. Elsler.....	311,111	Jan. 20	1254	343	30 245
Suspenders		F. E. Flagg.....	310,399	Jan. 6	315	87	30 61
Suspenders		A. M. Freeman and J. B. Overmeyer.....	312,264	Feb. 17	1098	303	30 568
Suspenders		A. M. Freeman and J. B. Overmeyer.....	325,740	Sept. 8	710	177	32 1153
Suspenders		W. H. Gurney.....	330,319	Nov. 10	1194	319	33 742
Suspenders		G. C. Hale.....	323,416	Aug. 4	44	11	32 531
Suspenders		J. R. Pollock.....	330,348	Nov. 10	1239	330	33 701
Suspenders		T. O. Potter.....	311,916	Feb. 10	609	167	30 469
Suspenders		T. O. Potter.....	311,917	Feb. 10	610	168	30 470
Suspenders		T. O. Potter.....	311,918	Feb. 10	611	169	30 470
Suspenders		T. O. Potter.....	322,478	July 21	1449	380	32 220
Suspenders		T. O. Potter.....	322,480	July 21	1451	381	32 220
Suspenders		A. Shenfield.....	330,519	Nov. 17	1473	394	33 801
Suspenders and shoulder-braces. Combined		E. D. Parrott.....	314,051	Mar. 17	1378	360	30 1060
Suspension device		L. T. Lawton.....	323,017	Dec. 22	2559	674	33 1477
Suspension device		C. H. Lyman.....	323,051	July 28	2242	592	32 430
Suspension device		C. J. Petersen.....	321,382	June 30	3271	874	31 1678
Suspension device		C. J. Petersen.....	324,724	Aug. 18	1799	497	33 873
Suspension device		C. J. Petersen.....	330,616	Nov. 17	1586	424	33 823
Suspension-hook		C. E. Raabe and G. E. Hackell.....	331,819	Dec. 8	854	219	33 1157
Suspension-hook. Detachable		S. R. Garrison.....	327,959	Oct. 6	562	146	33 101
Swaging-machine		W. B. and M. H. Rice.....	328,143	Oct. 13	824	215	33 156
Sweep, cotton-chopper, and dirtier. Combined		T. Northern.....	318,197	May 19	1696	454	32 1268
Swing		O. M. Ahlberg.....	327,051	Sept. 29	2481	648	33 1484
Swing		W. S. Brown.....	323,054	Dec. 22	2606	683	33 1484
Swing		J. T. Dees.....	323,121	July 23	2232	618	32 468
Swing		W. W. Elliott.....	320,432	June 16	2040	535	31 739
Swing		H. Fellows.....	330,306	Nov. 10	1180	315	33 739
Swing		T. Wilson.....	330,319	June 16	1873	492	31 618
Swing and exercising apparatus. Combined		H. Albrecht.....	324,513	Aug. 18	1513	416	32 920
Swing-joint for steam		H. J. Morton.....	324,874	Aug. 25	2015	532	32 948
Swinging can		C. Weindefel.....	320,247	Oct. 27	2251	608	33 485
Swinging chair		J. H. Shields.....	317,027	May 5	121	32	31 546
Swinging chair		J. H. Shields.....	317,028	May 5	127	32	31 546
Swinging chair. Automatic		J. C. McMullen.....	323,709	Aug. 4	424	121	32 662
Swinging chair convertible into a swinging hammock.		R. S. Baldwin.....	320,619	Sept. 22	1864	488	32 1268

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				Spec.	Draw.	Vol.	Page
Swinging gate	W. S. Bangs	311,714	Feb. 3	329	91	30	411
Swinging gate	G. S. Bartholomew and J. D. Abbott	313,976	Mar. 17	1294	337	30	1033
Swinging gate	H. B. Bookout	326,620	Sept. 22	1865	488	32	1380
Swinging gate	H. J. Goff and T. E. Plonghe	320,929	June 30	2690	714	31	1570
Swinging gate	E. A. Jones	316,041	Apr. 21	1471	384	31	879
Swinging gate	W. H. Starry	330,937	Nov. 24	2010	543	33	911
Swinging gate	J. Thompson	329,978	Nov. 10	751	192	33	652
Switch:							
See Automatic frogless switch.	Spring jack-switch.						
Cash-railway switch.	Store-service-apparatus switch.						
Cross-over switch.	Telephone-switch.						
Electric switch.	Track-switch.						
Railway-switch.	Tramway-switch.						
Switch	E. H. Allcutt	311,461	Feb. 3	2	1	30	349
Switch	E. C. Titus	320,019	June 16	1441	378	31	1326
Switch adjusting and locking mechanism	E. H. Johnston	311,433	Jan. 27	1716	467	30	335
Switch and signal apparatus	J. T. Hambay	330,395	Nov. 17	1313	348 349	33	771
Switch-board	F. W. Harrington	310,890	Jan. 20	931	253	30	187
Switch-board	H. E. Waite	312,410	Feb. 17	1300	359	30	606
Switch-boards. Connecting device for	E. W. Smith	318,929	May 26	2679	710	31	1038
Switch, frog, guard-rail, and crossing flange and clearer.	C. C. Quinn	319,314	June 2	465	125 126	31	1136
Switch-lock	F. P. Hilburn and G. L. Hoehn	321,107	June 30	2933	777	31	1613
Switch-signal. Automatic	S. Curlin	331,870	Dec. 8	926	239	33	1171
Switch-signal. Automatic	A. L. Wilkinson	312,239	Feb. 10	1061	292	30	552
Switch-stand	W. H. Blue	319,386	June 2	540	149	31	1152
Switch-stand	D. Bowen	324,526	Aug. 18	1529	422	32	821
Switch-stand	L. M. Curry	315,011	Apr. 7	35	7	31	8
Switch-stand	J. T. Hambay	318,726	May 26	2402	640 641	31	990
Switch-stand	J. T. Hambay	319,709	June 9	996	283	31	1240
Switch-stand	J. T. Hambay	324,838	Aug. 25	1963	530	32	910
Switch-stand	F. W. Snow	320,507	June 23	2143	566	31	1461
Switch-stand	R. Stretch	315,570	Apr. 14	835	220	31	155
Switch-stand	C. W. Widney	319,368	June 2	526	143	31	1148
Switch-stand. Safety	C. Graham	316,258	Apr. 21	1762	463	31	333
Switches and signals. Apparatus for interlocking	G. Fullman	313,585	Mar. 10	745	196 197	30	925
Swivel-block	W. L. Coop	310,386	Jan. 6	300	83	30	58
Swivel. Check-rein	J. Johnson	320,139	June 16	1605	424	31	1355
Syringe	A. Bihler	318,535	May 26	2160	579	31	945
Syringe	J. H. Foote	327,249	Sept. 29	2747	713	32	1545
Syringe	M. Hart	322,596	July 21	1605	424	32	306
Syringe	H. M. Howell	315,294	Apr. 7	429	108	31	78
Syringe	W. Molesworth	319,206	June 2	438	117	31	1131
Syringe	G. E. Philbrick	321,850	July 7	616	158	32	112
Syringe	B. F. Sutton	319,037	June 9	1320	348	31	1297
Syringe	J. Suydam	324,429	Aug. 18	1402	392	32	799
Syringe	C. J. Tagliabue	325,132	Aug. 25	2448	647	32	982
Syringe, &c.	H. R. Allen	330,084	Nov. 10	903	234	33	683
Syringe attachment	H. R. Allen	330,081	Nov. 10	899	233	33	682
Syringe attachment	H. R. Allen	330,082	Nov. 10	901	233	33	683
Syringe attachment	H. R. Allen	330,083	Nov. 10	902	233	33	683
Syringe for applying ointment, &c.	J. M. Laffin	320,261	June 16	1756	466	31	1363
Syringe for hypodermic injections	F. A. Reichardt	330,621	Nov. 17	1592	426	33	825
Syringe. Fountain	F. M. Davis	331,039	Nov. 24	2130	578	33	934
Syringe-nozzle	R. Van Buskirk	315,860	Apr. 14	1223	319	31	229
Syringe-piston	E. W. McAllister	329,403	Oct. 27	2588	667	33	492
Syringe. Vaginal	T. Kern	317,375	May 5	605	155	31	633
Table:							
See Billiard-table.	Ironing-table.						
Center or other table.	Knockdown table.						
Combination-table.	Machine-table.						
Cooking-table.	Metal table.						
Drafting-table.	Ore-concentrating table.						
Embalmer's table.	Railway turn-table.						
Embalming-table.	Revolving drop-leaf table.						
Extension-table.	Self-leveling table.						
Folding table.	Self-waiting table.						
Gaining-machine table.	Sewing-machine table.						
Game-table.	Shoe-maker's work-table.						
	Steam-table.						
	Tile-table.						
Table	L. Bailey	315,108	Apr. 7	163	39	31	30
Table	T. C. Beach	313,295	Mar. 3	372	92	30	844
Table	J. F. Davis	328,015	Oct. 13	662	174	33	127
Table	N. and D. Kies	312,731	Feb. 24	1735	477	30	605
Table	A. M. Maxwell	313,604	Mar. 10	771	203	30	929
Table	J. Moeller	324,718	Aug. 18	1790	494	32	871
Table	S. A. Nolen	323,064	July 28	2250	596	32	433
Table	J. Pleukharp	331,212	Nov. 24	2381	644	33	970
Table and bed. Combined	I. Levy	315,518	Apr. 14	752	198	31	140
Table and chair. Combined	H. E. Hildebrand	318,250	May 19	1763	471 472 473	31	865
Table and culinary receptacle. Combined	A. W. Steers	326,526	Sept. 15	1733	451	32	1350
Table and desk. Combined	C. E. Fagerberg	328,302	Oct. 13	1025	286	33	104
Table and desk. Combined	T. J. Ford	328,475	Oct. 20	1264	329	33	246
Table and writing-desk. Combined	I. W. Moore	323,950	Sept. 8	975	248	33	1203
Table and writing-desk. Combined	M. M. Walsh	326,814	Sept. 22	2163	563	32	1433
Table-corner	H. N. H. H.	319,903	June 9	1275	336	31	1289

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr-g	Vol.	Page.
Table for gynecological and surgical purposes	F. H. Clark	338,460	Oct. 20	1249	324	33	943
Table-fork	E. E. Albin	331,177	Nov. 24	2325	630	33	969
Table-leaf support	C. E. McGlinchey	318,773	May 26	2469	662	31	1001
Table-leaf support	A. Pohl and A. Claes	331,064	Nov. 24	2193	594	33	946
Table-leaf support	L. Welker	332,125	Dec. 8	1306	340	33	1240
Table-leaf support	J. P. Wolf and G. Iffland	331,857	Dec. 8	908	234	33	1188
Table-leg	C. B. McLain	310,286	Apr. 21	1809	473	31	339
Table-leg	O. F. Mitchell	321,907	July 7	622	177	32	124
Table-leg. Detachable	W. A. Osborn and D. M. Estey	326,582	Sept. 22	1805	473	32	1371
Table-leg. Removable	T. C. Beach	327,221	Sept. 29	2710	705	32	1330
Table-legs. Locking-plate for	H. A. Kaufhold and C. Steiny	323,582	Aug. 4	258	72	32	579
Table-rail tenoning and grooving machine	H. J. Dargin	311,222	Feb. 3	463	126	30	436
Table-service articles. Individual holder or rest for	K. E. Nichols and E. V. W. Hale	324,478	Aug. 18	1463	401	32	889
Table-service articles. Individual holder or rest for	K. E. Nichols and E. V. Whitney	333,082	Dec. 22	2647	694	33	1491
Table-slide	E. Pleukharp and T. Shilling	313,020	Feb. 24	2124	578	30	764
Table-top	H. P. Sabbert	329,086	Oct. 27	2124	550	32	467
Table-waiter	J. H. Kamerer	321,977	July 14	778	203	32	150
Tables. Extension-leaf for	T. Kundtz	315,949	Apr. 14	1353	351	31	510
Tables. Revolving waiter for dining	W. M. Knocler	316,979	May 5	64	17	31	534
Tablet and pencil holder	P. Boyle	327,779	Oct. 6	332	26	33	56
Tablet for arithmetical work. Lesson	A. W. Potter and T. J. McConnon	331,907	Dec. 8	983	254	33	1182
Tablet. Record	J. Crockett	311,724	Feb. 3	340	94	30	413
Tablet. Writing	W. V. Patteson	322,313	July 14	1209	318	32	529
Tack and rivet. Combined	E. Hohneck	318,474	May 26	2092	557	31	989
Tack-driving machine	A. S. Libby	316,966	May 5	73	19, 30	31	536
Tack-feeding device	C. J. Brosnan	329,268	Oct. 27	2377	615	33	455
Tack. Lasting	W. M. Cave, C. Holm, and W. Blandow	317,090	May 5	211	53	31	568
Tack-machines. Sorting-apout for	C. P. Weaver	315,194	Apr. 7	303	72	31	54
Tack-strip	E. Woodward and G. W. Copeland	312,691	Feb. 24	1679	462	30	865
Tack-strip. Lasting	G. H. P. Flagg and G. A. Fullerton	329,541	Nov. 3	168	44	33	537
Tack-strips. Machine for making comb	M. Brock	329,267	Oct. 27	2375	614	33	455
Tack-strips. Machine for shaping comb	M. Brock	329,009	Oct. 27	2010	522	33	398
Tacks. Furnace for bluing	C. P. Weaver	313,698	Mar. 10	890	232	30	953
Tacks. Instrument for entering and drawing	W. M. Clark	319,070	June 2	171	45	31	1079
Tacks, &c. Machine for picking up and arranging	A. S. Libby	310,467	Apr. 28	2061	540	31	391
Tacking-machine	J. E. Crisp	329,366	Oct. 27	2531	652	33	461
Tag	S. M. Guss	321,895	July 7	668	173	32	121
Tag	H. M. Stevens	314,620	Mar. 31	2136	569	30	1226
Tag	C. A. Squier	323,461	Aug. 4	99	29	32	541
Tag	M. Vernon	329,980	Nov. 10	753	192	33	653
Tag	M. Vernon	329,981	Nov. 10	754	193	33	653
Tag	C. F. Webster	323,472	Aug. 4	113	33	32	543
Tag. Adjustable	J. W. Jones	310,628	Apr. 28	2261	595	31	699
Tag and fastener	S. E. Mower	313,948	Mar. 17	1258	328	30	1027
Tag and tag-fastener	O. W. Conner	326,404	Sept. 15	1583	411	32	1322
Tag-attaching device	F. P. Guigon	318,614	May 26	2260	603	31	963
Tag-attaching device	J. W. Tuttle	318,583	May 26	2226	585	31	956
Tag cutting and punching machine	C. Colahan	315,492	Apr. 14	703	185	31	131
Tag-fastener	H. B. Brewster	310,785	Jan. 13	801	217	30	157
Tag-fastener	W. S. Miles	328,256	Oct. 20	1766	461	33	338
Tag-fastener	S. S. Sennebaugh	313,539	Mar. 10	687	180	30	914
Tag fastener	E. H. Taylor	321,664	July 7	639	163	32	115
Tag-holder	J. D. Hawkins	310,201	Jan. 6	56	15	30	13
Tag. Key-ring	F. H. Laforge and J. R. Smith	311,331	Jan. 27	1577	430	30	310
Tag. Marking	A. Appel	319,543	June 9	778	207	31	1200
Tag. Marking	J. P. Presley	321,384	June 30	3273	875	31	1679
Tag. Merchant's registering	J. Krause	329,054	Oct. 27	2076	539	33	300
Tag. Pin	J. J. Murphy	322,611	July 21	1645	435	32	315
Tag. Shipping	F. E. Bacon	316,721	Apr. 28	2411	626	31	457
Tailor's chalk-cutter	D. Machol	319,282	June 2	419	112	31	1127
Tailor's press-pad	S. C. Rugland	325,277	Sept. 1	65	19, 20	32	1068
Tailor's pressing-machine	A. Varnev	322,217	July 14	1098	235	32	969
Tailor's shears	S. C. Rugland	316,498	Apr. 28	2068	546	32	1581
Tally-sheet. Verifying	E. Spencer	333,427	Dec. 29	3123	816	33	950
Tamping-tool	H. M. Hoxie	324,998	Aug. 25	2163	596	32	72
Tan-bark. Machine for reducing	B. Holbrook	321,725	July 7	418	112	32	929
Tan-vats. Agitator for	A. T. Bull and W. Hill, Jr	324,916	Aug. 25	2067	566	32	929
Tanning composition	G. H. Leonard	326,763	Sept. 22	2072	.....	32	1417
Tank							
See Coffee-tank.	Oil-tank.						
Cream-transporta- tion tank.	Refrigerating-tank.						
Filtering-tank.	Rendering-tank.						
Flush-tank.	Water-tank.						
Hatter's tank.	Water-closetsupply-tank.						
Tank	E. Hines	313,867	Mar. 17	1135	285	30	1005
Tank	C. Olsen	322,746	July 21	1800	475	32	343
Tanning	G. F. Schweitzer	328,978	Oct. 27	1965	.....	32	380
Tanning	E. S. Ward	320,603	June 23	2270	.....	31	1485
Tanning apparatus	L. Simpson	313,542	Mar. 10	689	181	30	914
Tanning apparatus	L. Simpson	314,199	Mar. 17	1572	416	30	1085
Tanning apparatus	L. Simpson	314,200	Mar. 17	1573	416	30	1085
Tanning apparatus	L. Simpson	332,450	Dec. 15	1733	458	33	1324
Tanning apparatus	L. Simpson	332,451	Dec. 15	1756	459	33	1325
Tanning apparatus	L. Simpson and J. Davis	313,543	Mar. 10	690	181	30	913
Tanning extract. Manufacture of	T. F. Collin	313,177	Mar. 3	197	.....	30	1193
Tanning hides and skins	T. R. Clark	331,942	Dec. 8	1035	.....	30	999
Tanning hides. Apparatus for	J. Davis	313,478	Mar. 10	614	159	30	261
Tanning. Suspending hides in	F. R. Tuttle	328,984	Oct. 27	1973	519	33	74
Tap and die	J. Patten	310,462	Jan. 6	380	105	30	968
Tap. Automatic	A. J. Geyer, Jr	325,072	Aug. 25	2274	625	32	968

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Tap. Barrel.	S. W. Yattaw	315,370	Apr. 7	528	135	31	96
Tap for bung-holes. Automatic	J. E. Minnitt and J. H. Vickers	317,561	May 12	552	219	31	686
Tape-line box	H. E. Dickhut	332,505	Dec. 15	1628	479	33	1338
Tapping barrels. Device for	L. Darozir and N. Bouret	321,421	July 7	9	3	32	4
Tapping device	J. H. Rathbun	318,654	May 26	2309	617	31	973
Tapping device	J. H. Rathbun	332,436	Dec. 15	1738	455	33	1321
Tapping mains. Device for	G. Richardson	327,314	Sept. 29	2828	738	32	1560
Tapping metal pipes and fittings. Machine for	T. G. Morse	312,212	Feb. 10	1029	281 282	30	546
Tapping pipe-fittings. Machine for	F. Grinnell	311,311	Jan. 27	1546	420 421	30	304
Target-dart	T. J. Shears	322,984	July 28	2146	569	32	414
Target. Flying	J. L. Barker	312,604	Feb. 24	1570	430	30	665
Target. Flying	G. Ligowsky	311,768	Feb. 3	400	109	30	423
Target. Flying	L. H. Macomber	326,664	Sept. 22	1921	504	32	1391
Target. Flying	C. F. Stock	313,120	Mar. 3	107	27	30	796
Target. Flying	C. F. Stock	314,745	Mar. 31	2300	611	30	1255
Target. Flying	C. F. Stock	323,697	Aug. 4	664	187	32	648
Target-trap	F. C. Damm	328,569	Oct. 20	1391	302 303	33	268
Target-trap	A. H. Hebbard	322,714	July 21	1755	464	32	335
Target-trap	A. H. and C. C. Hebbard	332,902	Dec. 22	2395	633	33	1446
Target-trap	F. Holz	330,704	Nov. 17	1700	459	33	847
Target-trap	G. A. Mueller	328,051	Oct. 13	706	186	33	134
Target-trap	J. L. Raub	329,211	Oct. 27	2301	506	33	439
Target-trap	B. Teipel	329,974	Nov. 10	747	191	33	651
Target-trap	A. Woerber	316,590	Apr. 28	2215	583	31	420
Targets. Apparatus for manufacturing flying	F. C. Damm	328,570	Oct. 20	1393	363	33	269
Targets. Apparatus for the manufacture of flying	C. F. Stock	313,119	Mar. 3	106	26	30	796
Targets. Apparatus for the manufacture of flying	C. F. Stock	323,896	Aug. 4	663	187	32	648
Targets. Trap for throwing	C. F. Stock	323,020	July 14	842	219	32	161
Tea or coffee pot	F. Wisner	311,458	Jan. 27	1741	474	30	340
Tea-pots, jugs, &c. Lid for	J. C. Thompson	310,478	Jan. 6	399	111	30	77
Tedder	J. H. Thomas	315,856	Apr. 14	1217	317 318	31	228
Tedder-fork	J. H. Thomas	319,664	June 9	1215	321	31	1278
Tedder-fork	J. H. Thomas	329,242	Oct. 27	2343	607	33	448
Teeth. Machine for forming spring	E. P. Burns	311,954	Feb. 10	665	192	30	479
Telegraph	R. K. Boyle	348,345	May 19	1900	512	31	859
Telegraph and domestic supply circuits. Circuit-controller for combined district	D. Rousseau	322,973	July 28	2130	566	32	411
Telegraph apparatus. Municipal	J. C. Wilson	331,356	Dec. 1	137	34	33	1022
Telegraph. Autographic	S. P. Denison	315,391	Apr. 7	553	143 144	31	100
Telegraph. Autographic	S. P. Denison	315,392	Apr. 7	556	144 145	31	101
Telegraph. Automatic chemical	C. Westbrook	313,791	Mar. 10	1026	264	30	976
Telegraph. Automatic fire-alarm	M. Martin and J. C. Wilson	329,468	Nov. 3	55	16	33	515
Telegraph. Automatic perforating	J. E. Munson	330,344	Nov. 10	1224	327 328	33	747
Telegraph box. Fire-alarm	F. F. Loomis	323,435	Aug. 4	65	17	32	535
Telegraph-cable	W. R. Patterson	311,521	Feb. 3	87	25	30	365
Telegraph-cable	H. C. Spalding	327,461	Sept. 29	3020	788	32	1592
Telegraph-cable anchor	H. C. Spalding	327,460	Sept. 29	3019	788	32	1592
Telegraph-cables. Apparatus for filling lead pipes of	W. R. Patterson	311,913	Feb. 10	607	160	30	469
Telegraph-cables. Hydrostatic testing-machine for	W. R. Patterson	324,412	Aug. 18	1380	375 376	32	795
Telegraph-cables. Hanging	W. R. Patterson	311,523	Feb. 3	88	25	30	366
Telegraph-cables. Repairing	W. R. Patterson	311,522	Feb. 3	88	25	30	365
Telegraph-cables. Splice for underground	W. R. Patterson	330,049	Nov. 10	848	218	33	673
Telegraph call-box	F. B. Wood	329,871	Nov. 3	603	154 155	33	618
Telegraph. Chemical or fac-simile printing	H. Van Hovenbergh	316,693	Apr. 28	2363	617	31	448
Telegraph. Chemical printing	H. Van Hovenbergh	316,689	Apr. 28	2356	616	31	446
Telegraph. Chemical stock-quotations	T. A. Edison and P. Kenny	314,115	Mar. 17	1464	322 323	30	1066
Telegraph. Combined audible stock-quotations system and fire	F. B. Herzog	311,756	Feb. 3	383	105	30	421
Telegraph conductors. Manufacture of	A. A. Cowles	310,258	Jan. 6	128	37	30	26
Telegraph out-out	C. H. Lothrop	324,711	Aug. 18	1783	492	32	870
Telegraph. Duplex	L. A. McCarthy	321,992	July 14	800	209	32	154
Telegraph. Fire and police alarm	C. Selden	321,058	June 30	2860	761	31	1602
Telegraph for synchronous telegraphy. Printing	P. B. Delany and E. A. Calahan	322,693	July 21	1727	456 457	32	331
Telegraph. Harmonic printing	G. A. Cardwell	315,121	Apr. 7	176	43	31	32
Telegraph. Harmonic printing	G. A. Cardwell	315,122	Apr. 7	178	44	31	33
Telegraph-instrument	G. W. Stewart	330,271	Nov. 10	1132	301	33	729
Telegraph-instruments. Automatic circuit-closer for	J. W. McArthur	331,148	Nov. 24	2227	619	33	962
Telegraph-keys. Automatic circuit-closer for	H. P. Thompson	322,023	July 14	845	220	32	162
Telegraph. Multiplex	C. G. Burke	313,298	Mar. 3	377	93, 94	30	845
Telegraph. Municipal	J. C. Wilson	313,147	Mar. 3	144	36	30	803
Telegraph. Printing	G. A. Cassagne	313,175	Mar. 3	190	46, 47	30	812
Telegraph. Printing	G. A. Cassagne	313,176	Mar. 3	193	47, 48	30	812
Telegraph. Printing	R. N. Dyer	332,649	Dec. 15	2043	536	33	1375
Telegraph. Printing	G. M. Hathaway	310,587	Jan. 13	551	152 153 154	30	112
Telegraph. Printing	C. L. Healy	333,298	Dec. 29	2957	772	33	1554
Telegraph. Printing	C. N. Judson	328,491	Oct. 20	1281	333	33	949
Telegraph. Printing	W. J. McCausland	328,500	Oct. 20	1293	337	33	952
Telegraph. Printing	G. B. Scott	319,855	June 9	1199	317	31	1276
Telegraph. Printing	R. J. Sheehy	325,702	Sept. 8	643	184 185	32	1141
Telegraph. Printing	A. B. Smith	316,494	Apr. 28	2095	550	31	397

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Telegraph. Printing.....	H. Van Hoevenbergh.....	313,766	Mar. 10	1017	262	30	975
Telegraph. Printing.....	H. Van Hoevenbergh.....	316,677	Apr. 28	2325	610	31	441
Telegraph. Printing.....	H. Van Hoevenbergh.....	316,678	Apr. 28	2329	611	31	441
Telegraph. Printing.....	H. Van Hoevenbergh.....	316,679	Apr. 28	2331	611	31	442
Telegraph. Printing.....	S. B. Van Nortwick.....	329,515	Nov. 3	120	31, 32	33	528
Telegraph. Printing.....	J. E. Wright and J. H. Longstreet.....	311,218	Jan. 27	1410	365	30	20
Telegraph. Page-printing.....	H. Van Hoevenbergh.....	316,680	Apr. 28	2332	611	31	442
Telegraph. Page-printing.....	H. Van Hoevenbergh.....	316,681	Apr. 28	2336	612	31	443
Telegraph. Quadruplex.....	F. W. Jones.....	310,665	Jan. 13	674	186	30	134
Telegraph. Quadruplex.....	L. O. McPherson.....	333,739	July 21	1788	472	32	341
Telegraph. Quadruplex.....	H. C. Nicholson.....	332,549	Dec. 15	1902	497	33	1349
Telegraph. Quadruplex.....	H. C. Nicholson.....	332,550	Dec. 15	1905	498	33	1349
Telegraph. Quadruplex.....	H. C. Nicholson.....	332,551	Dec. 15	1907	499	33	1350
Telegraph. Quadruplex.....	G. Smith.....	319,428	June 9	604	164	31	1163
Telegraph. Quadruplex and duplex.....	D. H. Keeley and A. A. E. Garvey.....	331,975	Dec. 8	1083	989	33	1301
Telegraph. Railway.....	E. B. Ives and C. W. Williams.....	324,381	Aug. 18	1331	362	32	756
Telegraph. Railway.....	W. Vogel.....	333,178	Dec. 29	2729	730	33	1322
Telegraph. Railway-car.....	L. J. Phelps.....	312,506	Feb. 17	1446	306	30	62
Telegraph receiver. Printing.....	C. M. Jordan.....	326,989	Sept. 29	2401	528	32	144
Telegraph receiver. Printing.....	H. Van Hoevenbergh.....	316,698	Apr. 28	2374	618	31	450
Telegraph receiver. Printing.....	A. Wirsching.....	327,911	Oct. 6	524	136	33	94
Telegraph-receiver. Telephonic.....	W. A. West.....	329,992	Nov. 10	755	193	33	633
Telegraph repeater. Quadruplex.....	G. W. Gardanier.....	326,637	Sept. 22	1886	475	32	1364
Telegraph repeater. Quadruplex.....	T. R. Taltavall.....	320,311	June 16	1857	488	31	1400
Telegraph-sounder.....	J. W. Delmege.....	319,201	June 2	321	86	31	1108
Telegraph-sounder.....	G. W. Stewart.....	330,635	Nov. 17	1609	430	33	625
Telegraph. Submarine duplex.....	A. Muirhead.....	327,097	Sept. 29	2551	665	32	1569
Telegraph system and apparatus. Non-interfering fire.....	L. H. McCullough.....	316,475	Apr. 28	2070	543	31	393
Telegraph system. Fire.....	L. H. McCullough.....	316,474	Apr. 28	2069	542	31	392
Telegraph system. Non-interfering fire-alarm.....	L. H. McCullough.....	329,187	Oct. 27	2260	586	33	433
Telegraph system. Non-interfering fire and police.....	L. H. McCullough.....	329,189	Oct. 27	2266	587	33	433
Telegraph systems. Testing apparatus for fire and police.....	L. H. McCullough.....	329,188	Oct. 27	2263	586	33	433
Telegraph. Telephonic.....	W. A. West.....	329,924	Nov. 10	758	194	33	631
Telegraph transmitter. Printing.....	C. L. Healy.....	330,238	Nov. 10	1088	287	33	721
Telegraph transmitter. Printing.....	C. L. Healy.....	330,239	Nov. 10	1090	288	33	721
Telegraph transmitter. Printing.....	G. B. Scott.....	321,558	July 7	645	161	32	114
Telegraph transmitters. Automatic governor for printing.....	H. Van Hoevenbergh.....	316,687	Apr. 28	2351	614	31	446
Telegraph type-wheel. Printing.....	C. A. Mathiesen.....	330,376	June 16	1909	518	31	1421
Telegraph type-wheels. Inking-roller for printing.....	H. Van Hoevenbergh.....	316,692	Apr. 28	2362	610	31	447
Telegraph. Way-station quadruplex.....	T. A. Edison.....	333,291	Dec. 29	2950	771	33	1559
Telegraph-wire. Apparatus for manufacturing compound.....	M. G. Farmer.....	310,993	Jan. 20	1086	297	30	215
Telegraph-wire. Manufacturing compound.....	M. G. Farmer.....	310,995	Jan. 20	1088	298	30	215
Telegraph-wires. Supporting.....	M. Hettlinger.....	325,743	Sept. 8	716	178	32	1153
Telegraphs. Adjusting submarine duplex.....	A. Muirhead.....	320,477	Nov. 3	69	19	33	518
Telegraphs. Central-office apparatus for fire-alarm.....	L. H. McCullough.....	329,186	Oct. 27	2258	586	33	432
Telegraphs. Controlling press-circuits of printing.....	C. L. Healy.....	326,084	Sept. 8	1150	293	32	1294
Telegraphs. Electro-magnet for printing.....	H. Van Hoevenbergh.....	316,676	Apr. 28	2323	609	31	440
Telegraphs. Electro-magnetic escapement apparatus for printing.....	G. B. Scott.....	320,975	June 30	2756	733	31	1562
Telegraphs having two type-wheels. Unisoning printing.....	H. Van Hoevenbergh.....	316,690	Apr. 28	2358	616	31	447
Telegraphs. Multiple local circuit for electric.....	F. L. Pope.....	329,412	Oct. 27	2600	470	33	494
Telegraphs. Multiple-signal box for fire and police.....	L. H. McCullough.....	316,477	Apr. 28	2075	543	31	394
Telegraphs. Multiplex local circuit for.....	F. L. Pope.....	329,410	Oct. 27	2587	670	33	494
Telegraphs. Paper-guard for printing.....	C. Winkel.....	319,770	June 9	1077	284	31	1255
Telegraphs. Platen-shifting device for printing.....	H. Van Hoevenbergh.....	316,685	Apr. 28	2346	613	31	445
Telegraphs. Platen-shifting device for printing.....	H. Van Hoevenbergh.....	316,697	Apr. 28	2371	618	31	449
Telegraphs. Pneumatic winding apparatus for printing.....	H. Van Hoevenbergh.....	316,688	Apr. 28	2353	615	31	446
Telegraphs. Preventing false signals on reversals in quadruplex.....	J. W. Larish.....	329,749	Nov. 3	435	111	33	587
Telegraphs. Preventing false signals upon reversals in quadruplex.....	H. Van Hoevenbergh.....	313,787	Mar. 10	1019	263	30	975
Telegraphs. Preventing false signals on reversals in quadruplex.....	F. Van Rysselberghe.....	326,892	Sept. 22	2272	585	32	1453
Telegraphs. Receiving apparatus for synchronous.....	P. B. Delany.....	322,688	July 21	1716	455	32	329
Telegraphs. Transmitter for printing.....	H. Van Hoevenbergh.....	316,686	Apr. 28	2348	613	31	445
Telegraphs. Type-wheel for printing.....	H. Van Hoevenbergh.....	316,682	Apr. 28	2339	612	31	444
Telegraphs. Type-wheel for printing.....	H. Van Hoevenbergh.....	316,683	Apr. 28	2341	612	31	444
Telegraphs. Type-wheel for printing.....	H. Van Hoevenbergh.....	316,684	Apr. 28	2343	613	31	1064
Telegraphs. Unison device for printing.....	L. A. McCarthy.....	319,001	June 2	89	23	31	447
Telegraphs. Unison device for printing.....	H. Van Hoevenbergh.....	316,691	Apr. 28	2360	616	31	448
Telegraphs. Unison for printing.....	H. Van Hoevenbergh.....	316,696	Apr. 28	2369	618	31	491
Telegraphs. Unison for printing.....	H. Van Hoevenbergh.....	316,855	Apr. 28	2600	679	31	448
Telegraphs. Winding device for printing.....	H. Van Hoevenbergh.....	316,695	Apr. 28	2368	617	31	110
Telegraphic and other purposes. Generation of induced currents for.....	J. C. Ludwig.....	315,428	Apr. 7	617	158	31	110
Telegraphic and telephonic circuit. Combined.....	A. M. and T. R. Rosebrugh.....	329,956	Nov. 10	723	185	33	647
Telegraphic and telephonic instrument protector.....	G. A. Cardwell.....	311,957	Feb. 10	670	184	30	40
Telegraphic and telephonic systems. Preventing interference in combined.....	F. Van Rysselberghe.....	320,187	June 30	2771	736	31	1555
Telegraphic and telephonic systems. Preventing interference in combined.....	F. Van Rysselberghe.....	322,333	July 14	1234	384	32	235

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				Spec.	Draw.	Vol.	Page.
Telegraphic apparatus	C. W. Williams, E. B. Ives, and G. S. Barnum.	313,402	Mar. 3	591	152	30	887
Telegraphic call-instrument	F. B. Wood	321,073	June 30	2288	768	31	1607
Telegraphic relay	G. W. Gardanier	316,956	May 5	36	10	31	529
Telegraphic and telephonic systems. Preventing interference in combined	F. Van Rysselberghe	323,239	July 28	2493	663	32	477
Telegraphic relay	F. Stitzel and C. Weinedel	315,568	Apr. 14	831	219	31	155
Telegraphic relay and telephone. Combined	H. C. Strong	312,670	Feb. 24	1654	456	30	681
Telegraphic relay. Polarized	J. C. Ludwig	315,427	Apr. 7	615	158	31	110
Telegraphic repeater	J. Kölzer	311,330	Jan. 27	1575	429 430	30	310
Telegraphic repeater	W. M. Miner	331,250	Nov. 24	2438	659	33	988
Telegraphic service system	M. Duperow	332,193	Dec. 8	1396	361	33	1255
Telegraphic sounder	J. F. Gilliland	315,763	Apr. 14	1097	288	31	205
Telegraphic transmitting apparatus	P. B. Delany	316,125	Apr. 21	1598	417	31	303
Telegraphically. Printing	H. Van Hoevenbergh	316,694	Apr. 28	2365	617	31	448
Telegraphy	W. E. Athearn	324,799	Aug. 25	1912	526	32	901
Telegraphy	T. A. Edison	333,289	Dec. 29	2945	770	33	1551
Telegraphy	W. Mavor, Jr	326,880	Sept. 22	2252	587	32	1449
Telegraphy. Automatic	C. Westbrook	313,792	Mar. 10	1028	264	30	977
Telegraphy. Duplex	T. A. Edison	333,290	Dec. 29	2948	770	33	1551
Telegraphy for fac-simile transmission. Synchronous	P. B. Delany	316,754	Apr. 28	2458	640 641 642	31	464
Telegraphy. Induction apparatus for	J. C. Ludwig	315,425	Apr. 7	611	157	31	109
Telegraphy. Magneto-electric	F. H. Brown	324,746	Aug. 18	1823	504	32	878
Telegraphy. Multiple local circuit for electric	F. L. Pope	329,411	Oct. 27	2596	670	33	494
Telegraphy. Overcoming static disturbances in	F. W. Jones	310,694	Jan. 13	672	185	30	134
Telegraphy. Printing device for synchronous	P. B. Delany	322,869	July 21	1718	455	32	329
Telegraphy. Receiving apparatus for synchronous	P. B. Delany	316,126	Apr. 21	1599	418	31	303
Telegraphy. Relay for synchronous multiplex	P. B. Delany	322,808	July 21	1873	408 497	32	357
Telegraphy. Synchronous	P. B. Delany	322,427	July 21	1368	357	32	266
Telemeter system	C. L. Clarke	327,526	Oct. 6	92	6	33	6
Telemeter systems. Operating circuits in	C. L. Clarke	327,657	Oct. 6	214	53	33	38
Telemetry	C. L. Clarke	327,527	Oct. 6	29	7	33	7
Telephor	S. H. Owens	323,392	July 14	1320	343	32	251
Telephone	H. Alabaster, T. E. Gatehouse, and H. R. Kempe	314,304	Mar. 24	1717	456	30	1122
Telephone	F. Blake	314,312	Mar. 24	1734	459	30	1124
Telephone	L. De Loch-Labye	315,421	Apr. 7	605	156	31	109
Telephone	T. A. Edison	329,030	Oct. 27	2040	530	33	391
Telephone	J. H. Freeto	321,960	July 14	759	198	32	155
Telephone	E. T. Greenfield	316,260	Apr. 21	1765	464	31	335
Telephone	W. Gillett	331,052	Nov. 24	2144	581	33	937
Telephone	W. Hadden	312,841	Feb. 24	1886	517	30	721
Telephone	W. Hadden	312,842	Feb. 24	1886	517	30	722
Telephone	J. D. Hushands	318,907	May 26	2652	703	31	1034
Telephone	W. C. Lockwood	331,309	Dec. 1	70	18	33	1012
Telephone	J. Lowth	312,365	Feb. 17	1245	343	30	595
Telephone	J. Lowth	312,366	Feb. 17	1246	343	30	595
Telephone	W. R. Miller	312,492	Feb. 17	1419	391	30	627
Telephone	T. J. Perrin	316,816	Apr. 28	2539	663	31	480
Telephone	T. J. Perrin	316,818	Apr. 28	2540	664	31	480
Telephone	H. P. Pratt	310,961	Jan. 20	1040	281	30	205
Telephone	J. H. Robertson	329,084	Oct. 27	2122	549	33	407
Telephone	J. H. Robertson	329,085	Oct. 27	2123	550	33	407
Telephone	W. L. Voelker	315,862	Apr. 14	1225	320	31	229
Telephone	H. E. Waite	310,751	Jan. 13	757	206	30	149
Telephone	H. E. Waite	327,625	Oct. 6	168	41	33	30
Telephone	T. Wallace	312,533	Feb. 17	1420	405	30	638
Telephone	W. A. West	329,983	Nov. 10	756	193	33	653
Telephone. Acoustic	W. T. Black	324,356	Aug. 18	1300	353	32	780
Telephone. Acoustic	J. B. Cleaver	325,500	Sept. 1	379	93	32	1088
Telephone. Acoustic	A. Iake	322,294	July 14	1185	311	32	225
Telephone and telegraph central offices. Office connection for	H. B. Lytle and J. A. McCoy	313,829	Mar. 10	1072	276	30	984
Telephone and telegraph lines. Preventing induction in	F. Van Rysselberghe	321,404	June 30	3306	882	31	1684
Telephone and telegraph protector	C. C. Drake. (Reissue.)	10,663	Nov. 24	2468	666	33	994
Telephone apparatus	H. E. Waite	319,043	June 2	132	36	31	1072
Telephone attachment	G. R. Tyler	318,057	May 19	1520	407	31	818
Telephone. Battery	T. D. Lockwood	312,871	Feb. 24	1928	527	30	728
Telephone-boxes. Memorandum-holder for	J. F. Gilliland	311,977	Feb. 10	707	194	30	486
Telephone-cabinet	F. G. Johnson	329,090	Nov. 10	659	168	33	635
Telephone call-register	A. S. Hibbard	329,646	Nov. 3	298	76	33	561
Telephone-circuit	M. Brooks and H. R. Mason	323,269	July 28	2531	672	32	485
Telephone-circuit	H. S. Thornberry	317,888	May 12	1260	341	31	766
Telephone-circuit	H. S. Thornberry	320,414	June 16	2018	530	31	1430
Telephone circuit and apparatus	T. N. Vail	324,191	Aug. 11	1062	291	32	728
Telephone. Electric	C. E. Allen	319,048	June 2	139	38	31	1073
Telephone. Electric	H. E. Waite	319,042	June 2	131	36	31	1072
Telephone-exchange	W. S. Ford	331,955	Dec. 8	1051	273 274	33	1196
Telephone-exchange	J. A. Seely	318,514	May 26	2122	572	31	940
Telephone-exchange. Acoustic	G. W. Moore and J. N. Culbertson	328,243	Oct. 13	953	248	33	181
Telephone-exchange circuit	T. J. Perrin	315,334	Apr. 7	478	121	31	87
Telephone-exchange signal	C. E. Scribner	330,057	Nov. 10	857	221	33	674
Telephone-exchange signaling-circuit	C. E. Scribner	333,167	Dec. 29	2773	726	33	1519
Telephone-exchange switching apparatus	C. E. Scribner	330,065	Nov. 10	868	224	33	677
Telephone-exchange system	J. P. Davis	331,186	Nov. 24	2340	634	33	972
Telephone-exchange system	W. H. Preece	316,911	Apr. 28	2685	699 700	31	507

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Telephone-exchange system, circuit, and apparatus. } Central and subsidiary	T. N. Vall	324,192	Aug. 11	1071	291	32	729
Telephone-exchange system and apparatus	L. B. Firman	328,305	Oct. 13	1098	267	33	195
Telephone-exchange system and apparatus	F. Shaw and W. A. Childs	319,856	June 9	1202	318	31	1276
Telephone-exchanges. Battery-circuit for	C. E. Scribner	330,056	Nov. 10	855	221	33	674
Telephone-exchanges. Multiple switch-board for	C. E. Scribner	321,391	June 30	3284	878	31	1681
Telephone-exchanges. Multiple switch-board for	J. A. Seely	330,067	Nov. 10	873	225	33	678
Telephone-exchanges. Operator's apparatus for	C. E. Scribner	330,058	Nov. 10	858	221	33	674
Telephone-exchanges. Toll-line apparatus for	C. E. Scribner	330,066	Nov. 10	870	224	33	677
Telephone-line switch	F. E. Fisher	314,818	Mar. 31	2422	640	30	1273
Telephone-lines. Angle-hanger for mechanical	H. Seligman	315,078	Apr. 7	125	29	31	84
Telephone-lines. Automatic shunt for	C. D. Wright and C. A. Fisher	313,640	Mar. 10	817	214	30	338
Telephone. Magneto	J. H. and J. W. Rogers	326,675	Sept. 23	1934	509	32	1283
Telephone. Magneto	H. E. Waite	316,206	Apr. 21	1694	444	31	321
Telephone. Magneto	H. E. Waite	318,058	May 19	1521	407	31	819
Telephone. Magneto	H. E. Waite and S. H. Bartlett	316,205	Apr. 21	1693	444	31	321
Telephone magneto-call	A. H. Low	327,886	Oct. 6	485	127	33	26
Telephone. Mechanical	A. W. S. Davis	323,285	Dec. 29	2938	768	32	1550
Telephone. Mechanical	J. R., J. D., and C. F. Holcomb	320,935	June 30	2997	715	31	1573
Telephone. Mechanical	F. C. Ludlow	314,946	Mar. 31	2598	668	30	1300
Telephone. Mechanical	J. C. Rounds	318,397	May 19	1967	530	31	902
Telephone. Mechanical	H. Seligman	326,458	Sept. 15	1646	430	32	1284
Telephone. Mechanical	H. and E. Seligman	320,181	June 16	1654	439	31	1365
Telephone. Mechanical	F. R. Shaw	328,258	Oct. 13	970	252	33	184
Telephone. Mechanical	M. B. Williamson	333,044	Dec. 22	2596	636	33	1463
Telephone night-bells. Mechanism for operating	F. E. Fisher	314,817	Mar. 31	2420	639	30	1273
Telephone-offices. Signal-call for	A. H. Low	322,835	July 21	1920	500	32	365
Telephone. Portable	O. H. Saxton	317,213	May 5	390	96	31	585
Telephone-receiver	H. Alabaster and T. E. Gatehouse	314,306	Mar. 24	1719	457	30	1122
Telephone-receiver	C. L. Fortier	323,311	July 29	2606	693	32	497
Telephone-receiver	J. E. Fuller	322,884	July 21	1995	527	32	379
Telephone-receiver	C. A. Randall	312,162	Feb. 10	964	263	30	334
Telephone-receiver	T. F. Taylor	314,155	Mar. 17	1515	398	30	1075
Telephone-receiver	T. F. Taylor	314,156	Mar. 17	1517	398	30	1075
Telephone-receiver	T. F. Taylor	314,157	Mar. 17	1519	398	30	1076
Telephone-receiver and circuit-breaker. Combined	W. H. Eckert, J. A. Seely, and E. A. Eckert	313,409	Mar. 3	516	135	30	873
Telephone receiver. Speaking	J. H. Robertson	329,063	Oct. 27	2121	540	33	406
Telephone-receivers. Adjustable support for	J. M. Fitch	314,371	Mar. 24	1804	460	30	1139
Telephone-repeater	M. G. Farmer	325,920	Sept. 8	929	235	32	1194
Telephone signaling apparatus	J. H. Cary	310,379	Jan. 6	291	80	30	56
Telephone-stand. Revolving	E. F. Weaver	317,252	May 5	440	110	31	603
Telephone-support	T. W. Lane	320,438	June 16	2048	537	31	1435
Telephone-switch	J. A. Cabot	324,358	Aug. 18	1301	354	32	781
Telephone-switch	H. W. Comstock	319,789	June 9	1109	294	31	1360
Telephone-switch	W. Hadden	312,643	Feb. 24	1687	517	30	722
Telephone-switch	T. J. Perrin	322,132	July 14	977	255	32	187
Telephone-switch	C. Whitlock and A. C. Knapp	326,610	Sept. 23	1652	485	32	1378
Telephone switch-board	C. C. Sonne	328,618	Oct. 20	1466	381	33	241
Telephone-switch-board plug	C. K. Mead	325,952	Sept. 8	970	247	32	1202
Telephone switch-boards. Operator's apparatus for	C. E. Scribner	330,063	Nov. 10	865	223	33	676
Telephone switch-boards. Talking-strap for	F. E. Fisher	314,819	Mar. 31	2423	640	30	1279
Telephone-switch. Gravity	C. E. Scribner	330,064	Nov. 10	867	223	33	677
Telephone system	R. P. Barbier	330,368	Nov. 17	1274	338	33	764
Telephone system	A. E. Dolbear	325,650	Sept. 8	587	149	32	1131
Telephone system	W. A. Jackson and W. R. Cole	310,282	Jan. 6	160	45	30	38
Telephone system	C. W. Price and A. Barrett	324,591	Aug. 18	1607	442	33	838
Telephone systems. Relay for	J. H. Clarke and G. W. Millard	316,238	Apr. 21	1738	456	31	329
Telephone-toll system	H. Edmunds and C. T. Howard	327,073	Sept. 29	2506	634	32	1502
Telephone-transmitter	A. Berthon	319,548	June 9	784	208	31	1202
Telephone-transmitter	W. Burnley	326,269	Sept. 15	1409	367	32	1269
Telephone-transmitter	G. W. Drawbaugh	316,683	Apr. 28	2635	667	31	497
Telephone-transmitter	G. W. Drawbaugh	317,445	May 5	706	177	31	651
Telephone-transmitter	J. Emmner, Jr.	330,879	Nov. 24	1930	523	33	686
Telephone-transmitter	M. G. Farmer	316,133	Apr. 21	1609	420	31	305
Telephone-transmitter	J. P. Freeman	318,423	May 19	1996	537	31	907
Telephone-transmitter	J. P. Freeman	318,424	May 19	1999	538	31	907
Telephone-transmitter	J. E. Fuller	316,888	Apr. 28	2643	669	31	498
Telephone-transmitter	G. M. Hopkins	314,841	Mar. 31	2452	647	30	1264
Telephone-transmitter	F. D. Marston	329,327	Oct. 27	2408	637	33	471
Telephone-transmitter	S. P. Nutt	319,927	June 9	1303	344	31	1294
Telephone-transmitter	T. J. Perrin	324,729	Aug. 18	1805	499	32	874
Telephone-transmitter	C. A. Randall	312,160	Feb. 10	950	263	30	534
Telephone-transmitter	C. A. Randall	312,161	Feb. 10	961	263	30	534
Telephone-transmitter	H. S. Thornberry	321,323	June 30	3193	851	31	1663
Telephone-transmitter	H. E. Waite	312,409	Feb. 17	1299	359	30	606
Telephone transmitter and relay	T. J. Perrin	324,726	Aug. 18	1801	497	32	874
Telephone transmitter and relay	T. J. Perrin	324,727	Aug. 18	1803	498	32	874
Telephone transmitting apparatus	T. J. Perrin	324,728	Aug. 18	1804	498	32	874
Telephone uses. Arm-rest for	F. G. Johnson	327,692	Oct. 6	257	64	33	45
Telephones. Auxiliary mouth-piece for	C. A. Harrison	327,393	Sept. 29	2339	767	32	1578
Telephones. Duplicate switch-board system for	C. E. Scribner	321,390	June 30	3283	877	31	1680

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Telephones. Increasing the efficiency of	A. E. Dolbear	325,660	Sept. 8	588	149	32	1132
Telephones. Line-wire for mechanical	J. F. Gilliland	327,940	Oct. 6	563	146	33	101
Telephonic and telegraphic signal system	J. A. Seely	332,012	Dec. 8	1131	285	33	1210
Telephonic apparatus	C. A. Randall	312,898	Feb. 24	1952	534	30	732
Telephonic apparatus	S. P. Thompson	327,837	Oct. 6	433	113	33	76
Telephonic appliance	J. F. McLaughlin	328,702	Oct. 20	1579	411	33	302
Telephonic circuit and apparatus	L. A. Berthon	311,944	Feb. 10	646	177	30	476
Telephonic circuit and apparatus	J. B. Wood	330,763	Nov. 17	1781	480	33	861
Telephonic communication. Circuit for	H. Alabaster and T. E. Gatehouse	314,305	Mar. 24	1718	457	30	1122
Telephonic connection	J. A. Harlan	313,731	Mar. 10	941	243	30	961
Telephonic instruments. Sound-concentrator for	J. Godfrey	329,732	Nov. 3	414	106	33	584
Telephonic receiver	W. Burnley	326,268	Sept. 15	1407	366	32	1288
Telephonic transmitter	H. Alabaster and T. E. Gatehouse	314,307	Mar. 24	1720	457	30	1122
Telephonic transmitter	S. E. Beedy	329,001	Oct. 27	1994	518	33	385
Telephonic transmitter	J. H. Guest	311,979	Feb. 10	709	194	30	487
Telephonic transmitter	J. F. McLaughlin	328,703	Oct. 20	1580	412	33	302
Telephonic transmitter. Electric	E. H. Johnson	319,415	June 2	585	159	31	1159
Telephonic transmitter-support	H. B. Lytle and J. A. McCoy	313,828	Mar. 10	1071	276	30	984
Tellermoscope. Electric	F. W. Flint	328,205	Oct. 13	906	235	33	172
Tellurian	J. G. and M. L. Bernelke	321,000	June 30	2788	741	31	1588
Tellurian	W. G. and H. L. Short	311,264	Jan. 27	1478	404	30	292
Temperature-regulation. System of	W. S. Johnson	331,406	Dec. 1	213	56	33	1036
Temperature-regulator. Electric	C. A. Tucker	328,156	Oct. 13	844	219	33	160
Temperature-regulator. Thermo-pneumatic	W. S. Johnson	314,027	Mar. 17	1353	352	30	1045
Tenoning and boring machine	L. Hutchins	317,999	May 19	1441	386	31	805
Tenoning and boring machine	R. Triller	312,530	Feb. 17	1475	404	30	637
Tenoning-machine	H. S. Boynton	329,007	Oct. 27	2004	521	33	387
Tenoning-machine	J. R. Brumby	314,792	Mar. 31	2390	632	30	1272
Tennis-court marker	R. B. Brown	324,649	Aug. 18	1707	470	32	855
Tennis-racquet	I. J. Turner	323,608	Aug. 4	296	85	32	577
Tent	W. H. Lushbaugh	318,382	May 19	1847	525	31	899
Tentering-machine	A. McLean	315,809	Apr. 14	1152	302	31	216
Terret. Harness	G. F. Eberhard	330,685	Nov. 17	1672	450	33	841
Testing-machine	C. C. Miller	313,607	Mar. 10	774	204	30	930
Textile fabrics, &c. Centrifugal machine for treating	J. O. Obermaier	329,204	Oct. 27	2291	593	33	438
Textile fabrics, including paper. Preserving, strengthening, waterproofing, and glossing	C. A. Maxfield	328,956	Oct. 27	1920	501	33	372
Textile fabrics, paper, &c. Saturating or coating	C. A. Maxfield	328,957	Oct. 27	1921	501	33	372
Textile fabrics with waterproofing, &c. Apparatus for treating	C. A. Maxfield	328,958	Oct. 27	1923	502	33	372
Thawing hydrants or water-pipes	R. O. Benton	329,881	Nov. 10	628	159	33	629
Thawing-machine	F. L. Mentel	325,002	Aug. 25	2189	599	32	951
Therapeutic apparatus. Galvanic	T. Schmauser	312,660	Feb. 24	1637	451	30	678
Thermal cut-out	W. Stanley, Jr.	310,472	Jan. 6	392	109	30	76
Thermic motor. Triple	W. S. Colwell	313,178	Mar. 3	198	48, 49	30	812
Thermic motor. Triple	W. S. Colwell	313,179	Mar. 3	203	49, 50	30	814
Thermic motor. Triple	W. S. Colwell	313,181	Mar. 3	207	50, 51	30	815
Thermic motor. Triple	W. S. Colwell	313,182	Mar. 3	210	51	30	816
Thermic motor. Triple	W. S. Colwell and A. J. Davis	313,183	Mar. 3	213	51	30	816
Thermo-electric battery	D. Lautensack	313,215	Mar. 3	258	65	30	824
Thermometer	F. Elsner	320,119	June 16	1577	416	31	1350
Thermometer	J. L. Sardy and C. N. Coles	332,947	Dec. 22	2455	649	33	1459
Thermometer	T. W. Shepherd	330,161	Nov. 10	998	260	33	702
Thermometer	H. Weinhausen	310,925	Jan. 20	984	268	30	195
Thermometer. Air	G. T. Beilby	320,749	June 23	2452	650	31	1520
Thermometer-case and magnifying-lens. Combined	F. A. Reichardt	325,186	Aug. 25	2421	665	32	995
Thermometer. Clinical	J. J. Hicks	317,783	May 12	1141	302	31	740
Thermometer. Oven	D. G. Cooper	328,878	Oct. 20	1793	467	33	342
Thermometers. Manufacture of	J. J. Hicks	318,925	June 2	74	.....	31	1061
Thermometric electric alarm	J. Barry	329,698	Nov. 3	366	93	33	574
Thermostat	F. Biven	323,556	Aug. 4	230	67	32	564
Thermostat	J. L. Campbell	316,738	Apr. 28	2436	634	31	461
Thermostat	G. L. Gray	327,941	Oct. 6	563	146	33	101
Thermostat	W. H. Schuh	327,324	Sept. 29	2839	741	32	1562
Thermostat	G. R. Williams	311,933	Feb. 10	632	174	30	474
Thermostat. Electric	C. E. Kells, Jr.	322,612	July 21	1625	430	32	311
Thermostat. Electric	F. H. Prentiss and J. A. Tilden	313,523	Mar. 10	668	174	30	910
Thermostat for fire-alarms	J. J. Byrne	322,417	July 21	1355	354	32	263
Thermostats. Manufacturing	M. Martin	329,469	Nov. 3	60	16	33	516
Thermostatic circuit-closer	G. F. Bulen	333,443	Dec. 29	3142	821	33	1584
Thermostatic electric controlling device	M. Martin	329,470	Nov. 3	60	16	33	516
Thickness-gage	E. Morrison and J. P. Herron	310,908	Jan. 20	957	260	30	192
Thill and pole coupling	E. M. Sammis	320,779	Nov. 3	475	119	33	595
Thill-coupling	J. B. Armstrong	310,358	Jan. 6	268	73, 74	30	51
Thill-coupling	S. H. Atkins	328,558	Oct. 20	1377	359	33	266
Thill-coupling	J. H. Barker	310,946	June 16	1341	353	31	1309
Thill-coupling	G. W. Beaver	314,337	Mar. 24	1786	475	30	1135
Thill-coupling	G. W. Beaver	325,048	Sept. 8	577	146	32	1130
Thill-coupling	G. W. Blair	311,464	Feb. 3	6	2	30	350
Thill-coupling	W. R. Bowman	319,186	June 2	305	81	31	1104
Thill-coupling	A. G. Brandt	317,084	May 5	204	51	31	560
Thill-coupling	V. W. Butts	318,867	May 26	2607	691	31	1022

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Thill-coupling	A. A. Dailey	312,097	Feb. 10	862	236	30	516
Thill-coupling	C. L. Dalton	317,530	May 12	805	207	31	677
Thill-coupling	W. Danner and J. M. Billing	312,823	Feb. 24	1860	510	30	717
Thill-coupling	S. H. Dickerson	327,898	Oct. 6	468	192	33	83
Thill-coupling	J. L. Downing	311,819	Feb. 3	459	125	30	435
Thill-coupling	A. Filkins	325,331	Sept. 1	134	37	32	1040
Thill-coupling	H. K. Forbis	315,759	Apr. 14	1093	287	31	205
Thill-coupling	W. Fuhrman	315,929	Apr. 14	1325	345	31	246
Thill-coupling	E. A. Galatian and J. B. Taets	312,112	Feb. 10	870	240	30	519
Thill-coupling	N. T. Hale	326,863	Sept. 22	2231	589	32	1446
Thill-coupling	M. Hall and J. C. Ryan	324,837	Aug. 25	1962	539	33	910
Thill-coupling	J. Harpold	319,483	June 9	700	188	31	1127
Thill-coupling	J. Harriman	321,720	July 7	413	110	32	77
Thill-coupling	E. J. Hart	330,585	Nov. 17	1549	415	33	616
Thill-coupling	R. Hart	317,349	May 5	572	146	31	688
Thill-coupling	G. H. Holzbog and M. J. Weickaler	320,659	June 23	2346	620	31	1499
Thill-coupling	W. Katon	312,125	Feb. 10	898	244	30	523
Thill-coupling	D. E. Kempster	331,642	Dec. 1	602	149	33	1103
Thill-coupling	W. A. Kendall and F. R. Glover	310,207	Jan. 6	62	17	30	14
Thill-coupling	F. D. Kornochan	321,036	June 30	2233	754	31	1597
Thill-coupling	J. A. Kneedler	327,284	Oct. 6	422	126	33	86
Thill-coupling	B. H. Land	320,572	Nov. 3	207	54	33	544
Thill-coupling	J. W. Leete	319,914	June 9	1228	340	31	1292
Thill-coupling	H. A. Lutgens	315,642	Apr. 14	927	243	31	173
Thill-coupling	W. T. Mason	318,487	May 26	2079	561	31	931
Thill-coupling	A. McDowell	325,428	Sept. 1	296	70	32	1070
Thill-coupling	A. B. McKay	325,352	Sept. 1	160	43	32	1045
Thill-coupling	J. M. Miller	314,463	Mar. 24	1917	512	30	1169
Thill-coupling	J. L. H. Mosier	311,600	Feb. 3	191	54	30	324
Thill-coupling	P. B. O'Brien	316,479	Apr. 28	2078	543	31	394
Thill-coupling	A. B. Perine	324,725	Aug. 18	1801	497	32	673
Thill-coupling	W. J. Perkins	316,565	Apr. 28	2178	574	31	414
Thill-coupling	C. H. Post	328,430	Oct. 13	1211	313	33	229
Thill-coupling	H. B. Pratt	317,649	May 12	1232	325	31	757
Thill-coupling	T. P. Randall	313,528	Mar. 10	673	176	30	911
Thill-coupling	T. P. Randall	322,481	July 21	1453	282	32	280
Thill-coupling	O. M. Raugh	310,483	Apr. 28	2082	545	31	385
Thill-coupling	N. Richey	320,817	June 23	2335	672	31	135
Thill-coupling	J. A. Robison	317,207	May 5	363	96	31	526
Thill-coupling	A. L. Romans	325,264	Sept. 8	869	219	32	1168
Thill-coupling	H. R. Saul	370,051	Nov. 10	849	219	33	672
Thill-coupling	W. A. Scott, Jr.	332,952	Dec. 22	2461	631	33	1460
Thill-coupling	G. W. Simons	317,421	May 5	668	169	31	644
Thill-coupling	J. M. Simpson	332,843	Dec. 22	2305	607	33	1530
Thill-coupling	A. F. Skinner	314,733	Mar. 31	2225	607	30	1223
Thill-coupling	B. C. Smith and C. W. Pride	328,726	Oct. 20	1615	420	33	308
Thill-coupling	E. H. Smith	323,746	Aug. 4	473	134	32	612
Thill-coupling	G. W. Stowe	317,685	May 12	1014	263	31	715
Thill-coupling	E. E. Swift	321,398	June 30	3296	880	31	1623
Thill-coupling	W. R. R. Tillion	328,155	Oct. 13	843	219	33	159
Thill-coupling	W. P. Tracy	310,480	Jan. 6	403	111	30	78
Thill-coupling	G. D. Umland	319,941	June 9	1329	350	31	1289
Thill-coupling	J. F. Van Anker	318,836	May 26	2557	681	31	1015
Thill-coupling	F. M. Waters	322,510	July 21	1495	393	32	228
Thill-coupling	D. T. Williams	333,186	Dec. 29	2799	733	33	1524
Thill-coupling	C. C. Wright	315,455	Apr. 7	633	168	31	116
Thill-coupling	C. C. Wright	317,070	May 5	182	46	31	556
Thill-coupling bolt	I. M. Richardson	313,242	Mar. 3	310	77	30	633
Thill-couplings. Anti-rattler and shaft-support for	B. Chamberlain	321,190	June 30	3034	604	31	1633
Thill-couplings. Anti-rattler for	C. A. Horton	318,477	May 26	2066	538	31	929
Thill-couplings. Anti-rattler for	W. E. Murbarger	315,535	Apr. 14	799	208	31	147
Thill-couplings. Anti-rattler for	T. P. Randall	332,943	Dec. 22	2446	647	32	1458
Thill-couplings. Die for making	H. A. McDermid and W. William-son	327,702	Oct. 6	267	67	33	47
Thill for sleighs. Shifting	W. H. Metherell and A. Keiser	323,221	Aug. 4	563	160	32	622
Thill-support	C. E. Galbreath	330,888	Nov. 24	1944	526	33	896
Thill-support	J. Hurrell	324,769	Aug. 18	1860	519	32	824
Thill-support	N. A. Vedder	317,507	May 12	906	231	31	694
Thimble	W. P. Slensby	315,671	Apr. 14	963	252	31	180
Thrasher and huller. Clover	C. A. Bikle	310,246	Jan. 6	106	29	30	22
Thrasher and separator	D. C. Matteson	322,118	July 14	972	253	32	196
Thrasher and separator	F. Payne	323,726	Aug. 4	440	127	32	607
Thrasher and separator. Traveling	W. Norton	315,651	Apr. 14	937	245	31	175
Thrasher band-cutter and feeder	E. T. Cook	314,805	Mar. 31	2406	626	30	1275
Thrasher band-cutter and grain-feeder	G. L. and D. Neukomm	312,006	Feb. 10	741	200	30	491
Thrasher band-cutting feeder	A. S. Pfatt	327,567	Oct. 6	112	25	33	21
Thrasher-spreader	G. W. Gould	310,671	Jan. 13	655	180	30	130
Thrasher. Traveling	D. Young	311,705	Feb. 3	320	88	30	409
Thrasher. Traveling	D. Young	326,617	Sept. 22	1862	498	32	1379
Thrashers. Combined band-cutter and grain-feeder for	C. Grover	324,767	Aug. 18	1856	511	32	824
Thrashing and hulling machines. Recleaning at-tachment for clover	H. Campbell	315,906	Apr. 14	1295	337	31	241
Thrashing-cylinder	G. A. Roberts	326,314	Sept. 15	1497	390	32	1303
Thrashing-cylinder	E. C. Souney	322,135	July 14	994	259	32	190
Thrashing grain. Machine for	A. Arrieta	325,582	Sept. 1	487	121	32	1108
Thrashing-machine	R. H. Coon	313,299	Mar. 3	382	94	30	246
Thrashing-machine	J. Hersherberger	324,967	Aug. 25	2183	507	32	859
Thrashing-machine	J. E. Kimble	326,991	Sept. 29	2404	628	32	1464
Thrashing-machine	A. J. Redman	317,201	May 5	377	94	31	592
Thrashing-machine	G. A. Roberts and C. Schafer	317,674	May 12	1001	259	31	713

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Thrashing-machine	J. W. Roweton	326,249	Sept. 15	1386	360	32	1284
Thrashing-machine	W. H. Smith	332,117	Dec. 8	1298	361	33	1238
Thrashing-machine	A. H. Walker	316,587	Apr. 28	2211	582	31	420
Thrashing-machine	T. J. Widemire	322,232	July 14	1116	290	32	213
Thrashing-machine	M. Williams	317,907	May 12	1311	351	31	773
Thrashing-machine	C. Woolnough	324,063	Aug. 11	893	246	32	696
Thrashing-machine band-cutter and feeder	R. Aitken	322,826	July 28	2003	529	32	387
Thrashing-machine band-cutter and feeder	W. S. Judd	315,948	Apr. 14	1351	350	31	250
Thrashing-machine band-cutter and feeder	W. H. Lightcap	330,718	Nov. 17	1717	463	33	850
Thrashing-machine band-cutter and feeder	J. McHenry and J. O'Donnell	317,401	May 5	636	163	31	639
Thrashing-machine band-cutter and feeder	C. Paridy	331,536	Dec. 1	398	106	33	1070
Thrashing-machine band-cutter and feeder	J. W. Turner and E. W. Strack	319,940	June 9	1328	350	31	1288
Thrashing-machine band-cutter and feeder combined	D. Grubb	310,417	Jan. 6	333	91	30	65
Thrashing-machine band-cutter and feeder combined	R. Harding	310,679	Jan. 13	666	182	30	132
Thrashing-machine band-cutter and self-feeder	J. N. Naly	321,997	July 14	808	211	32	155
Thrashing-machine band-cutting and feeding mechanism	A. McVeety	330,507	Nov. 17	1456	390	33	798
Thrashing-machine belt-winder	P. Olmsted	321,521	July 7	160	43	32	31
Thrashing-machine clover-hulling attachment	W. S. Reeder	330,736	Nov. 17	1747	470	33	855
Thrashing-machine concave	G. A. Roberts	320,228	June 16	1807	480	31	1391
Thrashing-machine concave	G. A. Roberts	320,700	June 23	2395	633	31	1508
Thrashing-machine conveyor	D. H. Good	315,404	Apr. 7	577	148	31	104
Thrashing-machine dust-protector	W. W. Barber	332,224	Dec. 15	1448	575	33	1271
Thrashing-machine elevator	D. B. Flak	326,064	Sept. 29	2373	621	32	1472
Thrashing-machine elevator	A. E. Preston	313,767	Mar. 10	993	256	30	970
Thrashing-machine elevator-lifter	W. J. Pulliam	317,573	May 12	870	223	31	689
Thrashing-machine extension-grate	C. Schaefer	318,142	May 19	1628	435	31	839
Thrashing-machine feeder	D. H. Good	315,764	Apr. 14	1098	288	31	205
Thrashing-machine feeder	L. Parham	328,058	Oct. 13	721	188	33	137
Thrashing-machine grain-cleaner	D. L. Stroud	326,805	Sept. 22	2144	558	32	1430
Thrashing-machine. Hand	A. E. Bruce	315,710	Apr. 14	1013	267	31	190
Thrashing-machine rattle-rake	W. and J. Schwartz	318,310	May 19	1553	497	31	890
Thrashing-machine straw carrier	C. A. Schoen	312,661	Feb. 24	1642	452	30	619
Thrashing-machine straw-elevator	D. D. and P. J. Sprague	330,268	Nov. 10	1128	300	33	728
Thrashing-machine straw-stacker	D. D. C. D. and P. J. Sprague	311,210	Jan. 27	1396	382	30	277
Thrashing-machines and clover-hullers. Feeder for	M. E. Perring	316,819	Apr. 28	2541	664	31	480
Thrashing-machines. Band-cutting feeder for	J. B. Davis	325,736	Sept. 8	704	176	32	1151
Thrashing-machines. Belt shortener and tightener for	S. B. Aldrich	330,542	Nov. 17	1499	401	33	805
Thrashing-machines. Grain sacking and weighing attachment for	W. H. Barber	319,170	June 2	286	76	31	1100
Thrashing-machines. Rake for conducting grain to	J. T. Watkins	321,067	June 30	2222	766	31	1605
Thrashing-machines. Straw-cutting attachment for	J. A. Buchanan	327,064	Sept. 29	2496	652	32	1500
Thrashing peas. Machine for	J. A. McMullen and A. R. Bloodworth	328,799	Oct. 20	1694	441	33	324
Thread-cutter	B. F. Walker	324,616	Aug. 18	1652	455	32	845
Thread cutter and holder. Combined	J. L. C. Cronyn	314,518	Mar. 24	2005	535	30	1174
Thread separator and traveler-cleaner	J. H. Osborn	326,236	Sept. 15	1359	371	32	1290
Threshold	D. Bartholomew	322,066	July 14	928	240	32	117
Threshold	S. A. Kintner	313,742	Mar. 10	957	247	30	964
Thresholds. Device to be substituted for	A. A. Chase and D. H. Hesselton	325,237	Sept. 1	8	3	32	1016
Ticket-case	L. J. Blades	321,783	July 7	507	135	32	95
Ticket-case	W. E. Elam	331,424	Dec. 1	323	87	33	1055
Ticket-case	W. E. Elam	331,425	Dec. 1	324	88	33	1056
Ticket-case	C. E. McElroy	320,949	June 30	2713	720	31	1574
Ticket-case	G. A. Weston and H. R. Prockter	314,090	Mar. 17	1433	374	30	1061
Ticket-case. Conductor's	S. Engel	317,447	May 5	710	178	31	651
Ticket-chart	H. E. Lomas	326,879	Sept. 22	2251	587	32	1449
Ticket-clip	W. Souter	315,178	Apr. 7	264	64	31	48
Ticket. Continuous mileage	J. P. Eastman	314,170	Mar. 17	1539	402	30	1079
Ticket cutter, register, and alarm	E. F. Poland and J. G. Crawford	331,213	Nov. 24	2382	644	33	979
Ticket-holder	S. E. Cilley	310,998	Jan. 20	1077	293	30	213
Ticket-holder	T. M. Metcalf	324,869	Aug. 25	2008	551	32	919
Ticket-holder	W. Patterson	310,610	Jan. 13	578	159	30	117
Ticket or stamp box. Car	I. G. Pollard	320,814	June 23	2531	671	31	1535
Ticket-reel	A. P. Brown and M. D. Stern	321,863	Dec. 8	916	236	33	1170
Tidal power	F. R. Bussard and M. Gates	322,875	Dec. 22	2363	625	33	1440
Tide. Apparatus for utilizing the rise and fall of the	C. M. Walker	315,863	Apr. 14	1226	320	31	229
Tie.							
See Bale-tie. Railway-chair tie.							
Bale and package tie. Railway cross-tie.							
Railway-tie.							
Tile	P. Simons	320,822	June 23	2540	673	31	1536
Tile construction. Illuminating	T. Hyatt	317,943	May 12	1353	364	31	790
Tile. Encaustic	F. J. Frenzel, Jr.	332,389	Dec. 15	1676	459	33	1311
Tile. Fibrous-pulp roofing	J. T. Edson	310,192	Jan. 6	43	13	30	11
Tile for furnace-linings. Perforated	W. Huston	317,459	May 5	723	153	31	654
Tile for glass and other furnaces	J. Ashcroft	311,035	Jan. 20	1171	320	30	231
Tile for sidewalks, roofing, &c. Illuminating	C. E. Furman	311,891	Feb. 10	580	150	30	464
Tile for walls, wood-work, &c.	J. Hines	321,724	July 7	417	111	32	78
Tile. Illuminated	E. N. Higley	312,269	Feb. 17	1104	300	30	568
Tile. Illuminating combination	T. Hyatt	317,944	May 12	1355	364	31	791
Tile-kiln	G. Jennings	311,660	Feb. 3	265	73	30	398
Tile-laying machine	M. F. Anderson	316,515	Apr. 28	2122	558	31	403
Tile-laying machine	G. Keith	327,274	Sept. 29	2775	720	32	1550
Tile-machine die	T. E. Chandler and E. Dodds	315,909	Apr. 14	1300	338	31	241

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Tile. Machine for laying drain.	I. Webster	329,246	Oct. 27	2348	608	33	449
Tile. Machine for making drain.	R. J. Carson and W. D. Sherman	326,018	Sept. 8	1058	289	32	1217
Tile machines. Automatic cut-off and take-away for drain.	C. J. Merrill and W. Viggers	332,546	Dec. 15	1897	496	33	1348
Tile-machines. Cut-off table for.	C. W. Crawford	329,194	Oct. 13	891	232	33	169
Tile-section between walls, joists, &c.	W. F. Higgins	331,500	Dec. 1	346	83	33	1060
Tile-setting.	A. H. Lord	320,567	June 23	2218	587	31	1475
Tile-setting apparatus.	A. N. Byers	319,449	June 9	649	175	31	1178
Tile-table.	G. Potts	316,172	Apr. 21	1654	433	31	314
Tile-table.	W. W. Wallace	315,359	Apr. 7	516	131	31	93
Tile-work adapted to hearths, fire-places, and vestibules.	E. F. MacKusick	321,619	July 7	287	76	32	55
Tiles, &c. Apparatus for setting encaustic.	R. Marsh	318,126	May 19	1606	429	31	835
Tiles. Method of and apparatus for setting.	B. W. Peterson	325,009	Aug. 25	2195	601	32	933
Tiles. Mouth-piece of presses for the manufacture of.	C. F. E. Kretzner	318,267	May 19	1787	478	31	889
Tiles or other articles of cement. Press for molding ornamental.	J. Larmanjat	319,626	June 9	1166	308	31	1270
Tiling and grating for covering vaults, roofs, &c. Illuminating.	T. Hyatt	315,412	Apr. 7	589	152	31	106
Tiling. Illuminating.	C. H. Ross	312,222	Feb. 10	1042	285	30	548
Tiling, paving, and flooring slab or building-block. Composite.	R. Marsh	313,221	Mar. 3	264	67	30	825
Till-alarm.	G. A. Colton	312,707	Feb. 24	1702	468	30	689
Till recording and registering apparatus.	H. Pottin	312,014	Feb. 10	752	205	30	485
Tiller-wheel on steamboats, &c.	J. A. Maxwell	310,213	Jan. 6	69	18	30	15
Tilting-chair.	A. Demand	316,127	Apr. 21	1601	418	31	303
Tilting chair.	D. W. Housley	321,816	July 7	560	146	32	104
Tilting-chair.	C. A. Ferley	324,954	Aug. 25	2117	579	32	940
Timber. Apparatus for treating, seasoning, and preserving.	J. B. Blythe	313,913	Mar. 17	1202	313	30	1017
Time and interest indicator.	R. T. Sitterley	322,757	July 21	1810	478	32	345
Time-check receiver.	L. Hanson	319,090	June 2	192	51	31	1094
Time-check register.	F. W. Griswold	313,934	Mar. 17	1240	323	30	1023
Time-check system.	J. S. Goldsmith	326,495	Sept. 15	1691	441	32	1343
Time-checks. Apparatus for controlling the issue of.	J. S. Goldsmith	326,493	Sept. 15	1685	440	32	1341
Time-checks. Apparatus for receiving.	J. S. Goldsmith	326,494	Sept. 15	1688	441	32	1341
Time-detector. Electric.	T. Ahearn	329,674	Nov. 10	617	157	33	627
Time-detector. Watchman's.	E. Berman	331,759	Dec. 8	776	196	33	1145
Time-detector. Watchman's.	L. Zehnder	324,972	Aug. 25	2140	585	32	944
Time-lock.	H. Gross	321,893	July 7	663	172	32	121
Time-lock.	H. Gross	321,894	July 7	666	173	32	121
Time-lock.	M. C. Hawkins	314,238	Mar. 31	2447	646	30	1283
Time-lock.	E. Stockwell	312,925	Feb. 24	1967	542	30	740
Time-lock.	J. B. Young	314,282	Mar. 24	1683	449	30	1116
Time-lock.	J. B. Young	314,283	Mar. 24	1686	449	30	1116
Time-lock. Electric.	W. E. Peirce	322,317	July 14	1214	319	32	231
Time-lock mounting.	W. B. Hayden	312,119	Feb. 10	890	242	30	521
Time-piece.	C. S. Lewis	312,479	Feb. 17	1402	386	30	624
Time-piece.	J. Pallweber	312,754	Feb. 24	1769	487	30	701
Time-piece dial.	C. F. Dietz	328,112	Oct. 13	791	206	33	149
Time-piece dial.	M. V. B. Ethridge	319,604	June 9	1136	301	31	1255
Time-piece dial.	H. W. Oliver	320,649	Nov. 3	576	147	33	613
Time-piece dial.	J. Stern	319,035	June 2	123	34	31	1071
Time-piece regulator.	A. Jungmans	320,562	June 23	2213	585	31	1474
Time-piece striking mechanism.	C. Scholle	315,843	Apr. 14	1195	311	31	224
Time-piece winding-indicator.	G. Marzari	331,985	Dec. 8	1096	285	33	1203
Time-pieces. Hand-setting attachment for.	W. E. Doolittle	323,796	Aug. 4	530	150	32	623
Time-pieces. Hour-hand movement for.	J. H. Lufkin	316,798	Apr. 28	2517	657	31	475
Time-pieces. Point-indicator for.	E. A. Nelson	315,322	Apr. 7	465	118	31	84
Time-recorder and station-indicator. Automatic.	G. E. Schlegelmilch	321,317	June 30	3186	850	31	1022
Time-recorder for railways, &c. Alarm.	G. M. Stout	332,020	Dec. 8	1140	298	33	1211
Time-recorder. Watchman's.	E. J. Colby	320,116	June 16	1573	415	31	1350
Time-recorder. Watchman's.	A. Howard	319,818	June 9	1156	305	31	1268
Time-recording apparatus.	C. S. Haskell	319,092	June 2	195	51	31	1064
Time-register for employes.	S. W. Maxson	329,045	Oct. 13	699	184	33	133
Time-register for seats.	C. W. Allen	312,176	Feb. 10	963	268	30	538
Time-signal.	S. J. Swayze and J. C. Lane	327,739	Oct. 6	311	80	33	54
Time-signal transmitting system.	J. M. Oram	328,055	Oct. 13	713	187	33	135
Tin can.	T. C. Adams	324,512	Aug. 18	1512	416	32	218
Tin can, canister, &c. Hermetically-sealed.	E. H. Cooke and H. T. Seymour	310,989	Jan. 20	1078	293	30	213
Tin-foil.	J. J. Crooke	315,008	Apr. 7	30	31	7	7
Tin-foil. Making.	J. J. Crooke	315,009	Apr. 7	32	31	7	7
Tin-foil. Manufacture of.	J. J. Crooke	315,007	Apr. 7	29	31	7	7
Tin-folding machine. Four-edge.	J. W. and H. Eager	329,149	Oct. 27	2209	573	33	423
Tin from tin scraps. Recovering.	C. A. Catlin	322,157	July 14	1024	220	32	105
Tin-plate. Apparatus for crystallizing.	J. L. Geier	322,056	July 14	889	230	32	636
Tin plates in crystallization. Apparatus for cooling.	C. R. H. M. Habenicht	323,006	Aug. 4	544	155	30	718
Tinner's and plumber's furnace.	Z. Davis	312,825	Feb. 24	1864	518	33	716
Tinner's portable furnace.	P. J. Fitzgerald	330,218	Nov. 10	1064	276	31	1027
Tinner's shear-table page.	C. H. Dodge	318,883	May 26	2621	696	31	100
Tinner's use. Plotter for.	C. D. Cowgill	315,398	Apr. 7	550	149	32	855
Tintograph.	E. H. Brown	324,648	Aug. 18	1704	470	33	1556
Tire and felly. Wheel.	P. W. McGuire. (Reissue)	10,676	Dec. 29	3213	841	33	1120
Tire and setter therefor. Vehicle.	A. Heusser	331,704	Dec. 1	691	170	33	525
Tire-bolts. Device for clamping.	W. F. Brown	323,392	Aug. 4	12	4	32	793
Tire-expanding machine.	J. Munton	324,406	Aug. 18	1367	372	33	526
Tire-fastener.	E. C. Pfeiffer	317,647	May 12	1228	325	30	175
Tire for wheels. Elastic.	J. Leigh and R. W. H. McDowell	310,562	Jan. 13	894	249	30	111
Tire for wheels. Rubber.	A. H. Overman	315,537	Apr. 14	790	209	31	111

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Tire-heater	M. Hoyt	323,686	Aug. 4	400	115	32	508
Tire-heating device	S. Mansfield	314,388	Mar. 24	1826	485 486	30	1143
Tire-heating furnace	M. L. Smith and B. Schad	314,202	Mar. 17	1574	417	30	1086
Tire-rolling machine	J. Munton	318,120	May 19	1611	430	31	836
Tire-setter	W. Keeler	315,298	Apr. 7	435	109	31	79
Tire-setter	G. J. Weber	317,054	May 5	161	40, 41	31	552
Tire-shrinker	H. G. Lane	320,071	June 16	1506	399	31	1339
Tire-shrinker	W. Lehmer	331,070	Nov. 24	2166	528	32	941
Tire-shrinking machine	D. A. Willbanks	316,511	Apr. 28	2117	557	31	402
Tire-tightener	H. A. and E. S. Burlingame	321,578	July 7	232	62	32	45
Tire-tightener	M. Chase	320,650	June 23	2578	682	31	1544
Tire-tightener	H. Crisler	319,885	June 9	1248	329	31	1284
Tire-tightener	E. R. Powers	325,442	Sept. 1	307	75	32	1074
Tire-tightener	G. W. Rawson	311,363	Jan. 27	1823	444	30	319
Tire-tightener	T. Rodes	312,900	Feb. 24	1957	535	30	734
Tire-tightener	N. J. Skaggs	310,918	Jan. 20	976	265	30	194
Tire-upsetter	W. Cross	313,062	Mar. 3	36	9	30	784
Tire-upsetter	G. W. Ford	325,793	Sept. 8	777	195	32	1105
Tire-upsetter	N. D. Stanley	319,861	June 9	1212	320	31	1278
Tire-welding apparatus. Wheel	W. Harrison	326,869	Sept. 22	2240	584	32	1447
Tire-welding machine	C. M. Collins	320,675	Nov. 24	1927	522	32	895
Tires. Centering and holding device for	S. H. Brown and L. Sibley	325,315	Sept. 1	114	33	32	1037
Tires. Device for setting India-rubber	W. H. Carmont	315,240	Apr. 7	365	90	31	66
Tires, &c., of vehicle-wheels. Cushion for	M. Chase	324,534	Aug. 18	1538	424	32	923
Tobacco-booking machine	W. Jones	310,593	Jan. 13	559	155	30	113
Tobacco-box	W. Demuth	325,918	Sept. 8	927	234	32	1194
Tobacco-box	A. M. Guyton	324,105	Aug. 11	942	250	32	706
Tobacco-box, &c	C. H. Scales	313,112	Mar. 3	97	25	30	795
Tobacco-carrier	E. Walton	332,123	Dec. 8	1306	339	33	1239
Tobacco. Compound for treating	A. Gloeser	327,158	Sept. 29	2632	.....	32	1523
Tobacco. Compound for treating	G. S. Yingling	332,176	Dec. 8	1381	.....	33	1252
Tobacco-curing apparatus	D. G. McLellan	332,729	Dec. 22	2166	572	33	1403
Tobacco-curing device	W. H. Snow	322,330	July 14	1231	323	32	234
Tobacco-curing house	J. Osborn	332,621	Dec. 15	2000	524	33	1368
Tobacco-cutter	T. H. Asbury	311,053	Jan. 20	1168	319	30	230
Tobacco-cutter	J. J. Hoppes	310,431	Jan. 6	347	95	30	68
Tobacco cutter and shaver. Combined	G. W. D. Upton	313,259	Mar. 3	329	81	30	836
Tobacco-cutting machine	G. Le Clair	327,885	Oct. 6	463	126	33	86
Tobacco-drier	J. Adt	323,251	July 28	2512	667	32	481
Tobacco-drier	R. W. Coffee	320,450	June 23	2085	549	31	1450
Tobacco-drier	S. Collins	321,797	July 7	531	140	32	99
Tobacco-drier	J. K. Hardwicke and E. B. Welles	318,729	May 26	2406	642	31	991
Tobacco-dropper	M. K. Brubaker	316,601	Apr. 28	2227	526	31	423
Tobacco-dusting machine	J. G. Dill	318,549	May 26	2187	525	31	950
Tobacco-elevator	S. D. Hurst	327,088	Sept. 29	2538	662	32	1507
Tobacco-granulating machine	L. Burdick and W. F. Coleman	318,542	May 26	2177	523	31	948
Tobacco-hanger	C. Engert	329,301	Oct. 27	2425	629	33	464
Tobacco-harvesting knife	F. Visscher	316,924	Apr. 28	2702	704	31	509
Tobacco-hiller	J. W. Kauffman	319,727	June 9	1025	271	31	1246
Tobacco holder and shaver	S. R. Parks	332,284	Dec. 15	1528	400	33	1285
Tobacco-leaves. Machine for crushing and stem- ming	A. T. Lendrum	321,614	July 7	281	74	32	54
Tobacco. Machine for dressing fine-cut	W. H. Benson	312,796	Feb. 24	1822	500 501	30	710
Tobacco. Machine for making and affixing tin tags to plug	E. H. Peck	327,306	Sept. 29	2818	735	32	1558
Tobacco. Machine for stripping leaf	O. Hammerstein	316,540	Apr. 28	2150	565 566	31	408
Tobacco. Machine for treating leaf	J. A. Poist	330,734	Nov. 17	1745	469	32	855
Tobacco machine. Plug	T. Puetz, Jr	330,649	Nov. 17	1868	510	33	880
Tobacco machine. Plug	T. Puetz, Jr	330,650	Nov. 17	1890	511	33	881
Tobacco machine. Plug	G. Wilkey and A. Rollins	313,903	Mar. 17	1184	308	30	1014
Tobacco-moistening apparatus	L. J. A. Laurier	324,853	Aug. 25	1982	545	32	914
Tobacco-moistening device	C. H. Clark	314,223	Mar. 24	1603	423	30	1101
Tobacco-packing machine	W. R. Musser	314,539	Mar. 24	2030	542	30	1179
Tobacco-pail cover	W. N. Ford	327,784	Oct. 6	361	94	33	64
Tobacco-pipe	J. Alkman	332,858	Dec. 22	2335	617	33	1435
Tobacco-pipe	W. R. Chadsey	311,409	Feb. 3	12	4	30	351
Tobacco-pipe	W. R. Chadsey	327,920	Oct. 6	537	140	33	96
Tobacco-pipe	T. Murphy	313,833	Mar. 10	1082	281	30	986
Tobacco-pipe	L. Nax	315,321	Apr. 7	464	117	31	84
Tobacco-pipe	J. Pfeiffer	314,344	Mar. 24	1771	471	30	1132
Tobacco-pipe	A. and C. Tappe	331,569	Dec. 1	452	117	33	1078
Tobacco-pipe	A. C. Winning	323,842	Aug. 4	501	166	32	635
Tobacco-pipe	M. T. Wyatt	329,873	Nov. 3	607	155	33	618
Tobacco-plant cutter	J. A. and C. F. Foster	323,312	July 28	2606	693	32	497
Tobacco-plant cutter	C. C. Nagley	323,718	Aug. 4	438	125	32	605
Tobacco-plant setter	J. W. Hawkins	331,498	Dec. 1	343	93	33	1059
Tobacco-plant splitter and cutter	D. Robinson	311,375	Jan. 27	1638	448	30	322
Tobacco-press	C. B. Adams	324,631	Aug. 18	1675	462 463 464	32	840
Tobacco-press	J. C. Barkley	322,776	July 21	1835	485	32	350
Tobacco pulp	J. De Snsini	318,881	May 26	2619	.....	31	1027
Tobacco-steaming apparatus	S. G. Flinton	331,696	Dec. 1	680	168	33	1118
Tobacco-stick holder	G. Blithe	322,244	July 14	1122	294	32	215
Tobacco-transporting rack	W. Sternberg, (Reissue)	10,560	Feb. 10	1069	294	30	554
Tobacco. Treating	E. Neuman	325,110	Aug. 25	2319	638	32	977
Toboggan	J. R. McLaren, Jr	312,679	Feb. 24	1937	530	30	730
Toe-calk bars. Roll for forming	J. W. Foulks	333,003	Dec. 22	2539	669	33	1473
Toe-calks. Machine for making	F. W. Tucker	326,463	Sept. 15	1653	432	32	1335
Toe protector or separator	M. W. Miner	317,834	May 12	1215	321	31	754
Toe-weight	H. P. Kent	320,365	June 16	1939	511	31	1414
Toggle-joint	F. L. Ellis	322,531	July 21	1516	399	32	992

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Toilet-case	L. Jordan	328,588	Oct. 30	1417	369	33	273
Toilet-case and satchel. Combined	L. Johnston	312,335	Feb. 17	1234	330	30	599
Toilet-case. Pocket	W. W. Watts	330,649	Nov. 17	1625	437	33	832
Toilet-paper fixture	O. H. Hicks	325,174	Aug. 25	2404	600	32	992
Toilet-paper. Package of	O. H. Hicks	325,410	Sept. 1	2633	65	32	1065
Toilet-powder box	H. Schmelz	322,977	July 28	2137	567	32	412
Tongs. Nail	W. Mosley	322,195	July 14	1072	272	32	202
Tongs. Pipe	G. B. Koons	321,038	June 30	2835	754	31	1597
Tongs. Pipe	H. F. W. Sohst	331,456	Dec. 1	286	78	38	1049
Tongs. Store	J. D. Colby and J. F. Luther	316,524	Apr. 28	2130	561	31	405
Tongue iron. Wagon	O. Vasorman	332,766	Dec. 22	2213	583	33	1413
Tongue support	J. M. Haas	329,699	Nov. 10	647	163	33	633
Tongue support. Vehicle	P. B. Stone	325,187	Aug. 25	2422	665	32	995
Tongue support. Wagon	F. Callan	321,082	June 30	2699	770	31	1608
Tongue support. Wagon	W. Bench	312,246	Feb. 17	1075	296	30	563
Tongue support. Wagon	C. Hein	331,235	Nov. 21	2416	654	33	965
Tongue support. Wagon	F. Orlikowski and C. Yanker	321,633	July 7	302	80	32	58
Tongue support. Wagon	J. Smalley	323,452	Dec. 15	1757	460	33	1325
Tongue support. Wagon	W. R. Spray	314,674	Mar. 17	1406	367	30	1056
Tonguing and grooving machine	F. R. Kearney	313,000	Feb. 24	2028	569	30	757
Tool. Combination	R. W. Archer	313,272	Mar. 3	342	84	30	634
Tool. Combination	M. Bourke	331,371	Dec. 1	163	41	33	1027
Tool. Combination	A. D. Crosby	317,738	May 12	1075	292	31	722
Tool. Combination	G. Cutter	322,914	July 28	2041	538	32	394
Tool. Combination	W. B. Kennedy	326,297	Sept. 15	1450	378	32	1284
Tool. Combination	W. J. Kriz, H. A. Hammel, and T. W. McManus	315,148	Apr. 7	224	55	31	41
Tool. Combination	A. E. Lytle	318,920	May 26	2669	707	31	1006
Tool. Combination	W. C. Miller	324,145	Aug. 11	996	274	32	716
Tool. Combination	G. Plumptre	329,208	Oct. 27	2296	595	33	439
Tool. Combination	T. E. Riddel	310,851	Jan. 13	821	238	30	172
Tool-handle	J. Balz	333,192	Dec. 29	2806	734	33	1325
Tool-handle	M. L. Coats	329,815	Nov. 3	527	134	33	604
Tool-handle	F. Cronin	330,774	Nov. 17	1791	482	33	867
Tool-handle	L. M. Devore	330,383	Nov. 17	1295	343	33	762
Tool-handle	H. J. Gosling	318,103	May 19	1577	429	31	840
Tool-handle	C. Hermann	323,145	July 28	2360	696	32	454
Tool-handle	J. C. Hirst and E. Dickie	324,379	Aug. 18	1330	362	32	785
Tool-handle	W. Nunley	310,959	Jan. 20	1038	281	30	205
Tool-handle	A. C. Stowe	327,969	Oct. 6	603	157	33	108
Tool-holder	J. H. Gibson	318,718	May 26	2391	637	31	988
Tool-holder	A. Pawling	319,016	June 2	105	28	31	1067
Tool-holder	A. J. Peavey	323,727	Aug. 4	451	128	32	607
Tool-holder	H. E. Sweet	329,969	Nov. 10	742	189	33	650
Tool-holder. Compound	E. F. Noyes	328,707	Oct. 20	1584	413	33	303
Tool-sharpener	P. E. Comstock	332,187	Dec. 8	1389	359	33	1254
Tool-standard fastening	E. M. Whyler	328,737	Oct. 20	1627	424	33	311
Tools. Adjusting device for machinists'	F. I. Getty and F. Dickinson	314,663	Mar. 31	2197	563	30	1236
Tools and tool-blanks. Manufacture of cutting	M. A. Howell, Jr.	310,290	Jan. 6	158	30	31	17
Tooth. Artificial	W. R. Evans	323,306	July 28	2601	691	32	496
Tooth. Artificial	C. P. Groat	330,631	Nov. 17	1862	503	33	576
Tooth. Artificial	C. P. Groat	333,216	Dec. 29	2539	743	33	1331
Tooth. Artificial	T. S. Phillips	325,626	Sept. 1	543	137	32	1116
Tooth. Artificial	J. A. Priest	310,849	Jan. 13	879	238	30	172
Tooth. Artificial	H. C. Register	319,746	June 9	1046	276	31	1240
Tooth. Artificial	L. T. Sheffield	330,431	Nov. 17	1377	362	33	750
Tooth. Artificial	M. W. Williams	317,259	May 5	450	113	31	605
Tooth-crown	C. P. Groat	319,226	June 2	365	98	31	1117
Tooth-crown and its attachments. Artificial	C. S. Case	328,837	Oct. 20	1744	455	33	334
Tooth-crown. Artificial	W. S. How	313,737	Mar. 10	949	246	30	962
Tooth-crown. Artificial	W. S. How	313,738	Mar. 10	951	246	30	962
Tooth-crown. Artificial	M. L. Logan	310,294	Jan. 6	174	49	30	34
Tooth-crowns. Applying metallic	C. P. Groat	319,228	June 2	368	98	31	1117
Top-prop	T. F. Lemassena	314,587	Mar. 31	2094	559	30	1218
Top-prop washer	E. Rothlisberger	313,773	Mar. 10	999	258	30	973
Topical remedy	E. W. R. Schröter	318,662	May 26	2321	31	33	468
Top-roll clearer. Automatic	S. D. Learned	329,320	Oct. 27	2451	635	33	468
Top. Spinning	C. H. Fry, Jr.	310,574	Jan. 13	533	146	30	108
Top. Spinning	W. H. Hall	323,808	Aug. 4	547	155	32	626
Torch	C. F. Mueller and J. W. Manger	315,317	Apr. 7	460	116	31	84
Torch	J. H. J. Ronner	314,725	Mar. 31	2276	604	30	1220
Torch. Campaign	C. E. Bartram	319,392	June 2	545	148	31	1131
Torch. Night signal	C. T. Lee	314,033	Mar. 17	1360	334	30	1047
Torch. Pyrotechnic signal	J. Dax	329,442	Nov. 3	21	6	33	508
Torch. Signal	H. J. Pain	319,843	June 9	1186	313	31	1773
Torpedo	T. Nordenfelt	312,579	Feb. 17	1538	419	30	650
Torpedo	C. Pilgrim	323,071	July 28	2268	600	32	435
Torpedo-boat propelled and steered by electricity	W. S. Sims	349,633	June 9	901	229	31	1223
Torpedo-boat. Submarine	P. B. Walker and H. G. Riggs	310,342	Jan. 6	247	67.68	30	47
Torpedo-boats. Electro-magnetic steering and reversing mechanism for	H. P. Griswold	333,008	Dec. 22	2544	671	33	1474
Torpedo for danger-signals upon railways	T. G. Palmer	310,718	Jan. 13	716	195	30	149
Torpedo for railway-signals	S. F. Allen	313,151	Mar. 3	151	37	30	800
Torpedo. Marine	A. Castro	322,900	July 28	2019	533	32	300
Torpedo. Marine	W. I. Chambers	327,380	Sept. 29	2922	762	32	1573
Torpedo. Marine	W. I. Chambers	328,919	Oct. 27	1864	487	33	362
Torpedo. Marine	J. A. Howell	311,325	Jan. 27	1563	426	30	307
Torpedo-net	W. M. Bullivant	312,965	Feb. 24	2039	556	30	749
Torpedo-placer	J. O. Boggs	317,079	May 5	198	50	31	539
Torpedo. Railway	C. Burnham	327,520	Oct. 6	19	4	33	4
Torpedo. Railway	J. M. Clough	311,416	Jan. 27	1693	462	30	331
Torpedo. Railway signal	H. F. Clark	332,784	Dec. 22	2235	589	33	1417
Torpedo. Railway signal	T. G. Palmer	310,717	Jan. 13	715	195	30	142
Torpedo-signal	H. F. Clark	330,562	Nov. 17	1523	407	33	210

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Torpedoes. Apparatus for launching	J. A. Howell	311,326	Jan. 27	1568	427 428	30	308
Torpedoes. Counterbalancing float for marine	R. M. Ruck and E. Jones	319,626	June 9	894	237	31	1222
Torpedoes. Explosive weight for	J. E. Gallagher	316,137	Apr. 21	1614	422	31	306
Tow-boat for canals	D. W. Cooke	318,920	Mar. 17	1215	317	30	1019
Towel-holder	D. H. Murphy	331,728	Dec. 1	730	183	33	1126
Towel-rack	J. Borgsten	320,211	June 16	1694	450	31	1372
Towel-rack	P. Stevens	318,147	May 19	1635	437	31	840
Towel-rack	E. F. Wineinan	323,478	Aug. 4	122	35	32	544
Tower	B. F. Orton	331,817	Dec. 8	849	217 218	33	1156
Tower and shield system of fortifications	T. R. Timby	312,230	Feb. 10	1051	287 288	30	550
Tower and shield system of fortifications. Revolving.	T. R. Timby	312,232	Feb. 10	1054	289	30	550
Tower. Skeleton	J. S. Adams	311,165	Jan. 27	1325	365	30	265
Toy	C. A. Bailey	315,379	Apr. 7	538	138	31	98
Toy	C. A. Bailey	315,380	Apr. 7	539	139	31	98
Toy	A. P. Brown	329,269	Oct. 27	2378	615	33	455
Toy	W. M. Campbell	320,429	June 16	2036	534 535	31	1432
Toy	C. Coester, Jr.	324,233	Aug. 11	1132	308	32	740
Toy	G. S. Crosby	330,297	Nov. 10	1167	311	33	736
Toy	W. E. Depp	330,681	Nov. 17	1667	449	33	840
Toy	A. M. Freeman	328,206	Oct. 13	967	225	33	172
Toy	A. M. Freeman	328,308	Oct. 13	1165	301	33	220
Toy	E. R. Tres	324,260	Aug. 11	1168	317	32	747
Toy	J. B. Nichols	315,437	Apr. 7	629	162	31	112
Toy	H. and M. J. Reilly	331,004	Nov. 24	2064	567	33	827
Toy	V. E. Richer	313,952	Mar. 17	1265	330	30	1028
Toy	J. G. Webb	311,215	Jan. 27	1408	384	30	279
Toy	A. Wilke	325,141	Aug. 25	2358	650	32	984
Toy	H. Zuydhoeck	320,202	June 16	1677	447	31	1369
Toy animal	S. M. Butler	329,436	Nov. 3	14	4	33	507
Toy animal figure. Mechanical.	W. H. Hall	328,912	Oct. 20	1844	4-1 4-2	33	352
Toy ball-throwing device	W. W. Armington	323,843	Aug. 4	592	166	32	635
Toy block	J. B. Anderson	312,420	Feb. 17	1314	362	30	609
Toy bowling-alley. Circular	P. Burkel	322,416	July 21	1354	353	32	263
Toy bubble-blower	C. L. Linney	327,400	Sept. 29	2940	770	32	1580
Toy. Building	W. Stranders	311,793	Feb. 3	431	116	30	429
Toy building-block	C. H. Westcott	319,764	June 9	1068	284	31	1253
Toy cap-exploder	H. M. Dixon	332,063	Dec. 8	1211	316	33	1224
Toy. Educational	E. Schneller	322,754	July 21	1807	477	32	344
Toy figure	W. H. Anderson	328,272	Oct. 13	966	257	33	187
Toy game	O. E. Lundstedt	330,990	Nov. 24	2077	563	33	924
Toy gravity-railway or parlor-sleigh	J. S. Baldwin	310,929	Jan. 20	989	269	30	196
Toy gun	G. S. Tingley	332,461	Dec. 15	1765	462	33	1327
Toy-house roof	H. C. Underwood	329,513	Nov. 3	119	31	33	528
Toy locomotive	G. S. Crosby	330,299	Nov. 10	1168	311	33	737
Toy. Mechanical	W. H. Anderson	311,219	Jan. 27	1415	385 386	30	281
Toy motor	W. N. Weeden	318,335	May 19	1885	507	31	887
Toy or game. Mechanical	W. S. Reed and T. J. Walsh	320,501	June 23	2137	564	31	1460
Toy or puzzle. Spelling	W. Stranders	318,223	May 26	2543	677	31	1013
Toy. Pyrotechnical	G. Taylor	329,504	Nov. 3	106	28	33	525
Toy revolving detonator	S. Armstrong	330,066	Nov. 10	906	234 235	33	623
Toy savings-bank	H. C. Hart	317,771	May 12	1123	296	31	737
Toy savings-bank	C. G. Shepard and P. Adams, Jr.	321,650	July 7	321	85	32	61
Toy savings-bank	E. G. Shepard and P. Adams, Jr.	328,723	Oct. 20	1611	419 420	33	308
Toy spring-gun	W. W. Armington	316,862	Apr. 28	2612	681	31	493
Toy spring-gun	M. Bradley	310,873	Jan. 20	912	248	30	184
Toy spring-gun	G. Eusey	313,413	Mar. 3	521	136	30	874
Toy spring-gun	F. W. Goodyear	317,119	May 5	256	64	31	570
Toy spring-gun	F. W. Goodyear	332,892	Dec. 22	2380	629	33	1443
Toy spring-gun	D. L. Wilcox	326,366	Sept. 15	1543	400	32	1314
Toy swing. Electro-magnetic	M. Bacon	312,178	Feb. 10	966	269	30	538
Toy top	F. Weber	327,043	Sept. 29	2479	646	32	1496
Toy-vehicle team	G. S. Crosby	330,298	Nov. 10	1168	311	33	736
Toys. Faucet for	W. Newman	312,750	Feb. 24	1765	485	30	700
Trace and hame connection	O. P. Cobb	326,546	Sept. 22	1758	460	32	1363
Trace-carrier	F. O. Derr	319,681	June 9	958	254	31	1234
Trace-carrier	J. S. Dick	331,620	Dec. 1	571	139	33	1098
Trace-carrier	M. B. Friable	320,549	June 23	2201	581	31	1471
Trace-carrier	A. C. Judson	322,360	July 14	1303	340	32	248
Trace-carrier	A. Maxwell	321,123	June 30	2951	782	31	1616
Trace-carrier	J. H. Philpott	313,519	Mar. 10	665	173	30	909
Trace-carrier	B. F. Stevens	326,602	Sept. 22	2141	557	32	1430
Trace-carrier	J. R. Young	329,630	Oct. 20	1490	388	33	286
Trace-connection for hames. Adjustable	J. A. Alexander	332,859	Dec. 22	2335	617	33	1435
Trace-carrier for harness	J. B. Gathright	325,731	Sept. 8	829	207	32	1174
Trace-fastener	C. L. Bellamy	319,546	June 9	782	208	31	1201
Trace-fastener	G. D. Spielman	330,436	Nov. 17	1364	363	33	780
Trace-fastening	J. Espy and D. N. Tarbox	318,422	May 19	1996	537	31	907
Trace-fastening. Adjustable	J. A. Alexander	332,861	Dec. 22	2337	618	33	1435
Trace guide and fastener	E. C. L. Kunnecke	333,136	Dec. 29	2733	718	33	1513
Trace-holder	H. A. Pott	313,765	Mar. 10	992	256	30	970
Trace-holder	J. Strong	311,686	Feb. 3	298	81	30	405
Trace-holder for back-bands	A. Collins	325,502	Sept. 1	380	93	32	1088
Trace-hook	C. B. Webb	329,108	Oct. 27	2153	557	33	412
Trace-support	H. S. Bollinger and C. C. Schwaner	331,761	Dec. 8	778	197	33	1145
Traces to back-bands. Plate for securing	B. F. Jones	322,059	July 14	892	241	32	170
Tracing the outline of the human foot. Instrument for	A. W. Cox	317,309	May 5	516	132	31	618
Track	P. D. Wagner	322,660	July 21	1883	446	32	322

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.		
				Spec.	Dr'g.	Vol.	Page.	
Track and wheel cleaning and lubricating device.	F. G. Tuttle	333,090	Dec. 22	2660	696	33	1494	
Track-buffer	R. P. Garsed	318,462	May 26	3049	554	31	926	
Track-clearer	L. Morgan	330,725	Nov. 17	1730	466 467	33	852	
Track-fastener	H. R. Wolpert	339,870	Nov. 3	602	154	33	617	
Track-gage	R. Caffrey	326,271	Sept. 15	1419	367	32	1229	
Track-gage	W. D. Dalton	311,418	Jan. 27	1696	462	30	332	
Track-instrument	H. D. Winton	317,910	May 12	1314	351	31	773	
Track-laying device	G. A. Smith	321,765	July 7	485	128	32	90	
Track-lifter	L. D. Badger	328,376	Oct. 13	1133	292	33	214	
Track-switch	E. L. Giles	321,356	June 30	3239	864	31	1672	
Tracks. Adjustable chair for	W. E. Nickerson	311,254	Jan. 27	1461	399	30	290	
Tracks or tramways. Trolley for overhead	R. Cartwright	318,165	May 19	1654	443 443	31	844	
Traction-engine	A. C. Ames	320,743	June 23	2443	648	31	1519	
Traction-engine	R. S. Angell	314,285	Mar. 24	1639	450	30	1117	
Traction-engine	E. M. Birdsall	320,752	June 23	2456	651	31	1521	
Traction-engine	F. W. Bohn	310,980	Jan. 20	1068	291	30	211	
Traction-engine	J. H. Elward	329,153	Oct. 27	2215	574	33	424	
Traction-engine	J. H. Elward	329,154	Oct. 27	2217	574	33	424	
Traction-engine	C. and E. E. Ervin	314,924	Mar. 31	2567	679	30	1303	
Traction-engine	C. M. Giddings	330,576	Nov. 17	1537	411	33	814	
Traction-engine	A. Greig, R. H. Shaw, and J. Whittingham.	316,774	Apr. 28	2484	648 649	31	470	
Traction-engine	J. C. Harker	312,630	Feb. 24	1597	437 438	30	670	
Traction-engine	M. W. Hazeltin	311,319	Jan. 27	1555	424	30	306	
Traction-engine	J. Herahberger	312,633	Feb. 24	1605	440	30	672	
Traction-engine	O. W. Kelly and L. F. Dieter	310,443	Jan. 6	359	99	30	70	
Traction-engine	S. Mason	327,607	Oct. 6	396	103	33	69	
Traction-engine	H. B. McMurray	318,194	May 19	1690	453	31	851	
Traction-engine	H. Rendleman	325,768	Sept. 8	746	186	32	1160	
Traction-engine	F. W. Robinson	311,530	Feb. 3	97	29	30	367	
Traction-engine	W. H. Snyder	314,072	Mar. 17	1404	366	30	1055	
Traction-engine	G. Stringer	319,344	June 2	499	135 136	31	1143	
Traction-engine	L. C. Taber	329,238	Oct. 27	2336	605	33	447	
Traction-engine	J. W. Terman	333,300	Dec. 29	3038	793	33	1567	
Traction-engine	D. W. Webster	331,593	Dec. 1	526	128	33	1090	
Traction-engine	J. C. White	317,903	May 12	1308	350	31	772	
Traction-engine gear	M. Lafever	326,994	Sept. 29	2408	629	32	1485	
Traction-engine reversing-gear	I. Lehmer	320,665	June 23	2354	622	31	1500	
Traction-engine wheel	C. M. Giddings	326,109	Sept. 15	1177	301	32	1247	
Traction-engines. Platform for	H. Campbell and H. N. Land	317,722	May 12	1054	276	31	724	
Traction-way	R. Gornall	325,167	Aug. 25	2304	658	32	990	
Traction-wheel	J. Burkholder	317,719	May 12	1054	275	31	723	
Traction-wheel	F. F. Landis	325,750	Sept. 8	724	180 181	32	1155	
Traction-wheel	H. B. Larzelere	330,068	Nov. 24	2164	567	33	941	
Traction-wheel	L. W. Noyes	323,591	Aug. 4	270	79	32	573	
Train-sighter	J. R. Park	328,606	Oct. 20	1445	376	33	978	
Train-signal	C. Caine	317,720	May 12	1055	275	31	723	
Train-signal	M. F. Parrish and S. J. Munn	320,495	June 23	2125	560	31	1457	
Train-signaling. Electric	E. T. Gilliland	318,102	May 19	1574	422	31	829	
Tram-rails. Hanger for overhead	H. R. Towne	316,504	Apr. 28	2109	554	31	400	
Tramway. Electric	C. Basto	319,947	June 16	1341	353	31	1309	
Tramway for curves and cable-grips	A. S. Hallidie	330,976	Nov. 24	2059	557	33	920	
Tramway-switch	H. A. Hunter	333,076	Dec. 22	2636	691	33	1429	
Tramway-switches. Device for operating	W. F. Shorey	322,487	July 21	1459	384	32	281	
Tramway. Tubular	A. E. Brown	313,285	Mar. 3	358	89	30	841	
Tramways. Device for loading and unloading	C. M. Huson	312,274	Feb. 17	1117	307 308	30	571	
Transcycle	J. A. Enos	311,112	Jan. 20	1255	344	30	245	
Transits and other instruments of precision. Securing the parts of	F. W. Gardam	325,070	Aug. 25	2271	624	32	969	
Transits for vertical sighting. Attachment for engineers'	G. N. Saegmuller	327,320	Sept. 29	2834	739	32	1561	
Transom-lifter	G. J. Dickson	332,794	Dec. 22	2246	592	33	1490	
Transom-lifter	A. English	331,289	Dec. 1	50	11	33	1008	
Transom-lifter	A. Langstrom	324,943	Aug. 25	2099	574	32	936	
Transom-lifter	A. F. Pfeifer	311,256	Jan. 27	1463	400	30	290	
Transom-lifter	G. H. Sargent	324,170	Aug. 11	1034	282	32	722	
Transom-lifter	J. H. Shaw	312,024	Feb. 10	770	210	30	499	
Transom-lifter	J. H. Shaw	322,722	Oct. 20	1610	419	33	308	
Transom-lifter	C. E. Steller	317,036	May 5	135	35	31	547	
Transom-lifter	J. F. Wollensak	310,352	Jan. 6	260	71	30	50	
Transom-operator	S. Strong	312,224	Feb. 10	1044	296	30	549	
Transparency-frame	W. H. Ball	315,994	Apr. 21	1415	367	31	269	
Transpalypter	J. B. Johnson	310,592	Jan. 13	558	155	30	113	
Transportation-can	J. F. Swab	322,082	Oct. 13	754	197	33	143	
Trap:								
See Animal-trap.	Overflow-fixture trap.							
Ant-trap.	Plumber's trap.							
Ball-trap.	Rat-trap.							
Bed-bug trap.	Rat and mouse trap.							
Drain-pipe trap.	Seal-trap.							
Eaves-trough trap.	Sewer-trap.							
Feed-water trap.	Sewer-gas trap.							
Fly-trap.	Steam-trap.							
Gopher-trap.	Steel-trap.							
Grease-trap.	Stench-trap.							
Hog-trap.	Target-trap.							
Mole-trap.	Vermine-trap.							
Overflow-trap.	Water-trap.							
Trap for bath-tubs, sinks, &c.		C. A. Blessing	325,496	Sept. 1	362	88	32	1029

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Trap for soil and other pipes.....	S. S. Hellyer.....	320,435	June 16	2044	536	31	1434
Trap for soil and other pipes.....	S. S. Hellyer.....	329,388	Oct. 27	2564	681 682 449	33	487
Trap for wash-basins, &c.....	R. B. Dick.....	330,683	Nov. 17	1669	450	33	841
Trap for wash-basins. Automatic.....	W. E. Delehanty and E. J. Murphy.....	326,277	Sept. 15	1418	369	32	1290
Trap-lock.....	S. Ayres.....	331,223	Nov. 24	2394	648	33	982
Traps. Non-siphoning attachment for closet and other.....	H. Mackley and J. B. Ross.....	321,829	July 7	584	151	32	107
Traveling-bag handles. Manufacturing.....	F. Armbruster.....	326,471	Sept. 15	1662	434	32	1337
Traveling-bags, satchels, &c. Manufacturing.....	R. W. Chapman.....	311,059	Jan. 20	1179	323 324	30	232
Traveling-box for dogs.....	L. E. Evans.....	315,925	Apr. 14	1321	344	31	245
Traveling device. Circular.....	C. Bliven.....	325,386	Sept. 1	227	57	32	1057
Tray. Carrying.....	C. A. Andrews.....	330,662	Nov. 17	1643	441	33	835
Tray. Finger-ring.....	T. S. Coffin.....	329,018	Oct. 27	2025	525	33	290
Tray. Jeweler's watch.....	C. A. Kron.....	328,412	Oct. 13	1189	308	33	225
Tray, &c. Rotary.....	A. W. Stevens.....	327,032	Sept. 29	2456	641	32	1493
Treadle.....	A. Ball.....	320,996	June 30	2782	739	31	1587
Treadle.....	T. P. Gooch.....	326,802	Sept. 22	2230	582	32	1445
Treadle.....	E. F. Henderson.....	315,292	Apr. 7	417	104	31	76
Treadle.....	R. H. Kingsbury.....	310,686	Jan. 13	678	186	30	135
Treadle and rod. Combined foot.....	W. B. Cleves and F. G. Ryan.....	322,793	July 21	1854	493	32	354
Treadle attachment.....	A. B. McAtee.....	325,103	Aug. 25	2311	636	32	976
Treadle mechanisms. Device for Tree: See Boot-tree. Saddle-tree. Double-tree. Shoe-tree. Pad-tree. Single-tree.	O. B. Thompson.....	328,825	Oct. 20	1726	449	33	331
Tree-box.....	A. H. Hatmaker.....	316,262	Apr. 21	1768	464	31	334
Tree-box.....	K. H. Nichols.....	325,184	Aug. 25	2419	664 665	32	995
Tree-prop.....	I. H. Kizer.....	324,777	Aug. 18	1874	515	32	887
Tree-protector.....	F. McMaster.....	320,926	Nov. 10	678	174	33	639
Tree-protector.....	J. F. Wilson.....	318,586	May 26	2230	586	31	957
Tree-protector and lawn ornament.....	J. S. Hughes.....	313,424	Mar. 3	537	141	30	877
Tree-protectors. Constructing oil-troughs for.....	A. G. Cook.....	322,523	July 21	1508	396	32	290
Tree-seat.....	J. F. Gresale.....	323,415	Aug. 4	43	11	32	531
Trellis.....	C. D. Halfpenny.....	317,930	May 12	1349	363	31	780
Trellis for grape-vines.....	C. H. T. Claus.....	319,074	June 9	951	252	31	1232
Tremolo. Fan.....	J. A. Hendrick.....	322,450	July 21	1401	368	32	271
Trench-building machine.....	W. S. Morton.....	315,534	Apr. 14	786	207 208	31	146
Trestle.....	G. W. Murray.....	320,674	June 23	2264	624	31	1502
Trestle. Extension.....	H. H. Childers.....	315,726	Apr. 14	1038	273	31	194
Trestle. Folding and extension.....	G. Hansen.....	318,896	May 26	2637	699	31	1031
Trestle socket and clamp. Combined.....	G. W. Zeigler.....	318,154	May 19	1642	439	31	642
Tricycle.....	R. H. Andrews.....	310,688	Jan. 20	907	247	30	183
Tricycle.....	D. M. Babcock.....	322,406	July 21	1342	349	32	261
Tricycle.....	J. H. Cilley.....	328,761	Oct. 20	1648	429 430	33	316
Tricycle.....	H. J. Gormley.....	314,236	Mar. 24	1618	428	30	1103
Tricycle.....	C. F. Hadley.....	313,863	Mar. 17	1128	293	30	1003
Tricycle.....	L. Hall.....	318,725	May 26	2401	640	31	990
Tricycle.....	T. P. and J. B. Hall.....	310,676	Jan. 13	660	181	30	131
Tricycle.....	T. P. and J. B. Hall.....	325,338	Sept. 1	143	39	32	1042
Tricycle.....	C. G. E. Hennig.....	310,998	Jan. 20	1092	299	30	216
Tricycle.....	C. G. E. Hennig.....	316,146	Apr. 21	1623	425	31	307
Tricycle.....	C. G. E. Hennig. (Reissue).....	10,575	Mar. 24	2051	546	30	1182
Tricycle.....	J. W. Matteson.....	323,052	July 28	2243	593	32	430
Tricycle.....	P. E. McIntosh.....	329,755	Nov. 3	445	112	33	589
Tricycle.....	T. H. Paessler.....	311,084	Jan. 20	1218	334	30	229
Tricycle.....	T. H. Paessler.....	320,677	June 23	2267	626	31	1503
Tricycle.....	T. H. Paessler.....	320,678	June 23	2270	626 627	31	1503
Tricycle.....	D. H. Rice.....	326,244	Sept. 15	1376	356	32	1282
Tricycle.....	D. H. Rice.....	326,245	Sept. 15	1379	357 358	32	1283
Tricycle.....	T. Shakespear.....	325,019	Aug. 25	2206	605	32	955
Tricycle.....	F. Von Palstring. (Reissue).....	10,624	July 14	1337	348	32	254
Tricycle.....	T. R. A. Weber, C. G. E. Hennig, and A. E. Frommelt.....	321,162	June 30	2297	795	31	1626
Tricycle-clutch.....	D. H. Rice.....	316,061	Apr. 21	1497	391	31	284
Tricycle-gear.....	A. C. Latta.....	331,644	Dec. 1	604	149	33	1103
Tricycle hobby-horse.....	R. P. Heilman and R. B. Perkins.....	325,408	Sept. 1	261	65	32	1064
Tricycle. Lady's.....	L. P. Valiquet.....	313,460	Mar. 3	589	151	30	886
Tricycle-shaft-fastening device.....	D. H. Rice.....	331,330	Dec. 1	103	24	33	1017
Tricycle-steering device.....	A. H. Overman and C. F. Hadley.....	313,018	Feb. 24	2120	578	30	763
Trimmer: See Hedge-trimmer. Welt-trimmer. Heel-trimmer. Wick-trimmer. Lumber-trimmer.							
Trimming.....	L. Stark.....	319,142	June 2	256	67	31	1094
Trimming-machine.....	E. Jordan.....	310,894	Jan. 20	937	255	30	189
Trimming-machine.....	J. C. Wetmore.....	323,760	Aug. 4	492	139	32	615
Trimming. Textile.....	H. F. Quint and J. H. Mowen.....	318,028	May 19	1483	397	31	813
Triturator.....	L. H. Witte.....	313,906	Mar. 17	1188	309	30	1014
Triturating-mill.....	J. R. Alsing.....	320,994	June 30	2780	739	31	1586
Trough: See Drinking-trough. Feeding-trough. Eaves-trough. Hog-trough. Feed-trough. Watering-trough.							
Trough-clamp.....	R. D. Seward and S. D. Noel.....	319,139	June 2	253	66	31	1094

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Trowel-handle	C. Richardson	314,479	Mar. 24	1851	520	30	1165
Trowel. Plastering	J. C. Huther	316,464	Apr. 28	2050	539	31	289
Truck	F. L. Bestor	310,362	Jan. 6	272	75	30	52
Truck	J. Esch	320,680	June 23	2589	686	31	1546
Truck	H. Martin	314,594	Mar. 31	2102	561	30	1219
Truck	H. A. Stevens	322,499	July 21	1463	369	28	225
Truck	J. R. Walker	320,418	June 16	2023	531	31	1430
Truck and bag-holder. Combined	C. W. Camp	315,719	Apr. 14	1030	270	31	133
Truck and bag-holder. Combined	A. C. Dodge	330,624	Nov. 17	1670	450	33	641
Truck and bag-holder. Combined	E. J. Earl	321,286	June 30	3150	840	31	1635
Truck and bag-holder. Combined	C. H. Price and J. Stevenson	312,016	Feb. 10	759	207	30	497
Truck and ladder. Combined	J. C. Lowen	310,636	Jan. 13	861	233	30	169
Truck and support. Barrel	M. Miller	333,144	Dec. 29	2741	780	33	1514
Truck. Barrel	J. E. Hunter	322,623	July 21	1902	505	32	362
Truck. Barrel	G. H. Spencer	328,076	Oct. 13	743	194	33	141
Truck. Cable-car	J. J. Endrea	326,107	Sept. 15	1175	300	32	1246
Truck. Car	W. T. Browne	332,378	Dec. 15	1660	435	33	1308
Truck. Car	C. E. Candee	310,586	Jan. 20	1075	293	30	212
Truck. Car	I. H. Congdon	314,224	Mar. 24	1604	424	30	1101
Truck. Car	J. Gerhardt	324,831	Aug. 25	1955	536	32	909
Truck. Car	F. A. Graff	325,532	Sept. 1	422	106	32	1088
Truck. Car	F. A. Graff. (Reissue)	10,660	Nov. 10	1264	336	33	735
Truck. Car	T. W. Hogsett	328,679	Oct. 20	1550	403	33	286
Truck. Car	M. G. Hubbard	312,720	Feb. 24	1730	473	30	692
Truck. Car	M. G. Hubbard	326,653	Sept. 22	1903	500	32	1338
Truck. Car	M. G. Hubbard	326,653	Sept. 22	1906	501	32	1338
Truck. Car	M. G. Hubbard	326,654	Sept. 22	1908	501	32	1338
Truck. Car	L. K. Jewett	324,383	Aug. 18	1337	363	32	727
Truck. Car	E. C. Manning	326,999	Sept. 29	2415	631	32	1467
Truck. Car	H. C. McCarty	314,459	Mar. 24	1913	511	30	1159
Truck. Car	J. McEwen	317,822	May 12	1199	318	31	751
Truck. Car	W. H. Montz	322,741	July 21	1794	473	32	342
Truck. Car	C. L. Morehouse	320,156	June 16	1623	432	31	1359
Truck. Car	C. L. Morehouse	331,994	Dec. 8	1107	288	33	1205
Truck. Car	W. H. H. Sisum	321,392	June 30	2286	878	31	1681
Truck. Car	G. Souther	320,011	June 16	1429	375	31	1234
Truck. Car	G. S. Strong and A. Mitchell	312,928	Feb. 24	1992	544	30	740
Truck. Car	J. D. Trammell	314,402	Mar. 24	1843	491	30	1147
Truck. Car	J. Turner	332,622	Dec. 15	2092	549	33	1383
Truck. Car	A. M. Wellington	332,981	Dec. 22	2497	660	33	1406
Truck. Fire	W. T. Covert	321,342	June 30	3214	857	31	1666
Truck. Folding barrow	J. W. Coleman	329,623	Nov. 3	272	70	33	557
Truck for elevated cars	J. A. Enos	331,349	Dec. 1	185	42	33	1031
Truck for moving houses	E. W. Whitehead	327,632	Oct. 6	177	43	33	32
Truck. Freight	J. Dixon and E. B. Rhodes	321,802	July 7	536	141	32	100
Truck. Hand	A. A. Acklen and U. C. Pipes	319,046	June 2	137	37	31	1073
Truck. Hand	J. C. Dean	321,605	July 7	383	102	32	72
Truck. Hand	G. A. Kollenberg	321,902	July 7	677	176	32	123
Truck. Hand	J. Steel	319,524	June 9	752	201	31	1196
Truck. Hand	D. S. Wing	310,485	Jan. 6	408	112	30	79
Truck. Harvester	W. A. Ober	330,258	Nov. 10	1112	295	33	725
Truck. Hook-and-ladder	D. T. Young	315,690	Apr. 14	985	252	31	185
Truck. Hose	E. A. Taft	320,015	June 16	1434	377	31	1325
Truck. Piano	J. F. Barrows	322,150	July 14	1018	265	32	194
Truck. Reaper	G. M. L. McMillen	310,214	Jan. 6	70	18	30	15
Truck. Stove	F. B. Smith	318,145	May 19	1633	436	31	840
Truck. Warehouse	G. F. Armstrong	334,066	Aug. 11	1895	247	32	986
Truck-wheel	A. Partridge	319,244	June 9	1186	313	31	1274
Trundle and hoop	W. Webster	329,518	Nov. 3	125	33, 34	33	529
Trundling-wheel	J. J. Myers	327,577	Oct. 6	98	22	33	19
Trunk	E. Andrews	312,946	Feb. 24	2014	570	30	744
Trunk	E. Andrews	332,034	Dec. 8	1172	307	33	1216
Trunk	G. Crouch	324,091	Aug. 11	924	255	32	702
Trunk	G. Deimel	311,176	Jan. 27	1352	371	30	969
Trunk	G. Deimel	318,455	May 26	2040	551	31	925
Trunk	G. S. Eggemann	318,174	May 19	1667	447	31	247
Trunk	A. C. Frankel	330,886	Nov. 24	1941	525	33	896
Trunk	L. A. Leiser	323,434	Aug. 4	65	17	32	535
Trunk	O. R. Meredith, J. I. Gallacher, and C. F. Jones	310,704	Jan. 13	701	191	30	139
Trunk	F. H. Ransom	316,176	Apr. 21	1659	434	31	315
Trunk	M. R. Redmond, G. P. McFarlane, and J. Mallon	311,919	Feb. 10	611	169	30	470
Trunk	G. H. Wells	331,351	Dec. 1	131	32	33	1091
Trunk	H. F. Wulf	327,749	Oct. 6	321	82, 83	32	56
Trunk	C. Zimmerman	320,740	June 23	2440	647	31	1518
Trunk and bed. Combined	M. A. Rooney	327,595	Oct. 6	123	29	33	25
Trunk and camp-bedstead. Combined	G. Vuitton	325,879	Sept. 8	885	223	32	1185
Trunk-brace. Inside	J. M. March	315,046	Apr. 7	83	90	31	17
Trunk buffer and caster. Combined	S. M. Michelson	313,096	Mar. 3	75	90	30	791
Trunk-catch	T. F. Conklin	311,721	Feb. 3	336	93	30	412
Trunk-catch	J. J. Cowell	317,736	May 12	1072	291	31	727
Trunk-catch	J. J. Cowell	329,625	Nov. 3	274	71	33	557
Trunk-catch	J. O. Ford	312,195	Feb. 10	1007	274	30	542
Trunk-catch	J. E. Ladd	325,347	Sept. 1	153	42	32	1044
Trunk-catch	T. L. Rivers	332,004	Dec. 8	1120	292	33	1206
Trunk-catch	J. Wayland	311,276	Jan. 27	1501	410	30	297
Trunk catch or fastener	G. H. Blakesley	325,234	Sept. 1	5	2	32	1016

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Trunk-deck attachment.....	L. Ganick.....	321,961	July 14	750	198	32	146
Trunk-fastener.....	W. B. Coulter.....	311,232	Jan. 27	1474	391	50	284
Trunk-fastener.....	J. H. Medcraft.....	311,348	Jan. 27	1700	438	50	315
Trunk-fastener.....	G. D. Spielman.....	330,435	Nov. 17	1362	363	33	780
Trunk-fastening.....	J. H. Alexander.....	321,779	July 7	503	134	32	94
Trunk-fastening.....	G. H. Blakesley.....	319,550	June 9	787	208	31	1202
Trunk-ild support.....	C. P. Howell.....	326,038	Sept. 8	1085	276	32	1222
Trunk-lock.....	W. P. Adams.....	320,036	June 16	1461	384	31	13.0
Trunk-lock.....	L. E. Dupont.....	314,522	Mar. 24	2009	536	30	1175
Trunk-lock.....	W. Hochu.....	311,759	Feb. 3	390	106	30	422
Trunk-lock.....	F. W. Mix and G. B. Cowles.....	331,427	Dec. 1	249	66	33	1042
Trunk-lock.....	C. F. Veit.....	325,995	Sept. 8	1028	261	32	1212
Trunk-lock plate and socket.....	F. W. Mix.....	331,426	Dec. 1	249	65	33	1042
Trunk-stay.....	S. M. Michelson.....	311,439	Jan. 27	1723	469	30	337
Trunk-strap.....	W. J. Muncey.....	316,384	Apr. 21	1939	569	31	362
Trunk-top.....	J. F. Osborn.....	338,602	Oct. 20	1441	375	33	277
Trunk-top. Veneer.....	J. F. Osborn.....	338,603	Oct. 20	1442	375	33	277
Trunk-top. Veneer.....	J. F. Osborn.....	338,604	Oct. 20	1443	378	33	278
Trunk-trav.....	J. Pronsnitzer.....	310,222	Jan. 6	78	20	30	17
Trunk. Wardrobe.....	O. H. Meurer and G. N. Klein.....	325,555	Sept. 1	457	114	32	1104
Trunks and boxes. Fastening for.....	C. Mark.....	324,048	Aug. 25	2110	577	32	959
Trunks, chests, &c. Stay for.....	H. Laurence.....	318,123	May 19	1603	428	31	85
Truss.....	A. R. Bassett.....	320,453	June 23	2078	547	31	1449
Truss.....	J. Cronin.....	311,570	Feb. 3	150	42	30	377
Truss.....	A. J. Lytle.....	316,903	Apr. 28	2674	697	31	505
Truss.....	D. Pomeroy.....	324,586	Aug. 18	1601	441	32	837
Truss.....	A. Pullar.....	318,434	May 19	2015	542	31	910
Truss.....	L. Schmitt.....	329,682	Nov. 3	346	88	33	570
Truss.....	J. N. Stark and G. P. Bartlett.....	316,303	Apr. 21	1831	479	31	344
Truss.....	P. Tefft.....	319,346	June 2	501	136	31	1143
Truss.....	S. M. Van Alstine.....	328,985	Oct. 27	1973	512	33	381
Truss.....	B. F. Williamson.....	319,372	June 2	532	145	31	1149
Truss.....	A. D. Winters.....	314,503	Mar. 24	1986	530	30	1171
Truss and supporter. Combined.....	H. A. Wheeler.....	332,443	Dec. 15	1746	456	33	1323
Truss. Body.....	O. Case.....	313,057	Mar. 3	32	8	30	784
Truss. Hernial.....	N. Jones.....	326,122	Sept. 15	1193	305	32	1249
Truss-pad.....	H. G. Farr.....	321,091	June 30	2913	774	31	1611
Truss-pad.....	I. N. Foote.....	311,739	Feb. 3	360	96	30	417
Truss-pad. Hernial.....	E. Chesterman.....	328,109	Oct. 13	787	205	33	149
Tub:							
See Bath-tub. Paint-tub.							
Bath and wash tub. Wash and bath tub.							
Mash-tub.							
Tub-fastener.....	G. F. Atwood.....	330,814	Nov. 17	1843	497	33	872
Tubs. Machine for making.....	M. Corcoran and C. M. Gates.....	317,518	May 12	600	205	31	676
Tube:							
See Roller-tube. Rubber tube.							
Bottle-tube. Soda-water draft-tube.							
Ear-tube. Speaking-tube.							
Floor-tube. Well-tube.							
Metal tube.							
Tube.....	J. Hudson.....	319,721	June 9	1019	269	31	1245
Tube.....	P. Patterson.....	318,286	May 19	1808	424	31	874
Tube-cleaner for fuel-economizers or feed-water heat-ers.	C. H. Holt.....	328,220	Oct. 13	924	241	33	176
Tube-coupling cover.....	P. Patterson.....	318,925	May 26	2673	709	31	1037
Tube-cutter.....	D. A. Ritchie.....	328,973	Oct. 27	1953	569	33	378
Tube-expander.....	R. Barnard and E. Miles.....	325,170	Aug. 25	2369	653	32	986
Tube-expander.....	W. A. Bole.....	319,879	June 9	1240	327	31	1282
Tube-expander.....	C. Dudley.....	333,206	Dec. 29	2826	739	33	1529
Tube-expander.....	H. Hayes.....	325,244	Sept. 1	15	6	32	1018
Tube-expander.....	F. Sulter.....	328,632	Oct. 20	1475	384	33	283
Tube-forming machine.....	J. L. Richter.....	327,721	Oct. 6	203	74	33	51
Tube-joint.....	C. E. Emery.....	310,264	Jan. 6	135	39	30	27
Tube joint. Metal.....	W. A. Miles.....	325,556	Sept. 1	458	114	32	1103
Tube-machine.....	W. Wattle.....	324,198	Aug. 11	1069	294	32	733
Tube. Machine for contracting the end of a.....	W. R. Walton.....	324,507	Aug. 18	1504	411	32	816
Tube-making machine.....	J. J. Fisher and J. A. Herrick.....	311,477	Feb. 3	92	6	20	353
Tube. Prospecting or well-boring.....	A. Ball.....	316,865	Apr. 28	2614	681	31	493
Tube-rolling machine.....	C. Kellogg.....	325,938	Sept. 8	947	240	32	1198
Tube-skelps. Machine for bending.....	J. Hooven.....	320,936	June 30	2698	716	31	1572
Tube-skelps. Machine for bending.....	J. R. Jackson.....	315,626	Apr. 14	908	239	31	169
Tube-skelps. Machine for scarfing and bending.....	P. Patterson and H. E. Boyd.....	314,712	Mar. 31	2254	599	30	1247
Tube-welding machine.....	G. S. Strong.....	324,610	Aug. 18	1638	450	32	843
Tubes. Apparatus for centering and inserting disks in the ends of.....	C. W. Nason.....	331,529	Dec. 1	387	104	33	1068
Tubes. Closing the ends of metal.....	C. W. Nason.....	331,528	Dec. 1	386	104	33	1068
Tubes. Die for drawing and compressing.....	W. Alderdice.....	329,612	Nov. 3	259	67	33	554
Tubes from hollow ingots. Machine for making.....	S. P. M. Tasker.....	331,571	Dec. 1	454	118	33	1079
Tubes from hollow ingots. Machine for making.....	S. P. M. Tasker.....	331,572	Dec. 1	458	118	33	1079
Tubes from hollow ingots. Machine for making.....	S. P. M. Tasker.....	331,579	Dec. 1	496	121	33	1083
Tubes from hollow ingots. Machine for making.....	S. P. M. Tasker.....	331,580	Dec. 1	490	121	33	1084
Tubes from hollow ingots. Machine for making.....	S. P. M. Tasker.....	331,581	Dec. 1	495	122	33	1084
Tubes from hollow ingots. Machine for making.....	S. P. M. Tasker.....	331,582	Dec. 1	500	123	33	1085
Tubes from hollow ingots. Machine for making.....	S. P. M. Tasker.....	331,583	Dec. 1	505	124	33	1086
Tubes from hollow ingots. Machine for making.....	S. P. M. Tasker.....	331,584	Dec. 1	508	125	33	1086

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Tubes from hollow ingots. Machine for making taper	S. P. M. Tasker	331,574	Dec. 1	465	119	33	1080
Tubes from hollow ingots. Machine for making taper	S. P. M. Tasker	331,575	Dec. 1	470	119	33	1081
Tubes from hollow ingots. Machine for making taper	S. P. M. Tasker	331,576	Dec. 1	475	120	33	1082
Tubes from hollow ingots. Machine for making taper	S. P. M. Tasker	331,577	Dec. 1	480	120	33	1082
Tubes. Machine for welding plugs in the ends of	C. W. Nason	331,527	Dec. 1	384	104	33	1068
Tubes. Making seamless	W. H. Brown	316,600	Apr. 26	2226	536	31	423
Tubes. Sectional non-conductive covering for	W. M. Suhr	312,037	Feb. 10	783	213	30	501
Tubes. Testing metallic	F. G. Stone and W. R. Walton	324,495	Aug. 18	1424	406	32	813
Tubing and cord, and for covering telegraph and other wires. Machine for making	V. and J. Royle, Jr.	325,363	Sept. 1	176	47, 48	32	1047
Tubing. Machine for making metal	D. A. Ritchie	328,974	Oct. 27	1955	509	33	378
Tubing. Manufacture of	J. Lippincott	330,338	Nov. 10	1216	325 326 324 265	33	746
Tubing. Manufacturing	C. Kellogg	324,118	Aug. 11	960	265	32	709
Tubular boiler	J. C. Benjamin	330,202	Nov. 10	1048	273	33	712
Tubular boiler	A. D. Davis. (Reissue)	10,636	Aug. 18	1895	520	32	692
Tubular boiler. Portable	W. Moran	318,128	May 19	1610	430	31	636
Tuck-marker	J. C. Goodwin	310,476	Nov. 17	1420	379	33	791
Tuck-marker	E. C. Reese	317,418	May 5	664	108	31	643
Tug	T. Jacoby	311,989	Feb. 10	721	197	30	429
Tug	M. W. Rohrer, Jr., and D. H. Boyer	330,426	Nov. 17	1351	360	33	772
Tug and buckle. Hame	H. J. Bickle	321,944	July 14	739	193	34	143
Tug and hip-strap attachment for harness	J. J. Lain	325,547	Sept. 1	447	117	32	1101
Tug and trace fastening. Hame	W. H. Tyler	311,736	Feb. 3	433	117	30	429
Tug. Draft	R. B. Ayres	314,909	Mar. 31	2547	673	30	1306
Tug-fastener	I. Baloun	328,449	Oct. 20	1237	321	31	941
Tug. Hame	M. F. Anderson and W. H. Wilcox	328,557	Oct. 20	1377	358	33	265
Tug. Hame	C. J. Cooper	315,005	Apr. 7	26	7	31	7
Tug. Hame	L. Gustafel, Jr.	324,321	July 28	2618	696	32	490
Tug. Hame	A. L. Hill	322,934	July 28	2067	550	32	399
Tug. Hame	C. B. Lindsey and D. N. Goddard	310,683	Jan. 13	685	188	30	116
Tug. Hame	T. L. Rivers	319,126	June 2	240	62, 63	31	1092
Tug. Hame	T. L. Rivers	325,013	Aug. 25	2201	603	32	853
Tug. Hame	T. L. Rivers	330,517	Nov. 17	1471	393	33	800
Tug. Hame	C. C. Schwaner	321,253	June 30	3109	827	31	1046
Tug. Harness	L. A. Blood	312,799	Feb. 24	1826	501	30	711
Tug. Metallic shaft	J. H. Moyer	324,876	Aug. 25	2017	553	32	920
Tug. Shaft	H. F. Bock	310,366	Jan. 6	276	76	30	53
Tug. Shaft	H. F. Bock	310,367	Jan. 6	277	76	30	53
Tug. Shaft	O. Keen	329,569	Nov. 3	202	53	33	543
Tugs. Roll for harness-loop	J. Wagner	322,570	July 21	1575	415	32	301
Tumbling-barrel	D. McCance	322,621	July 21	1634	432	32	313
Tuning-fork	D. W. Segrove	320,090	Oct. 27	2128	551	33	408
Tuning-hammer	A. W. Green	318,981	June 2	69	18	31	1061
Tuning-hammer	F. W. Hale	310,673	Jan. 13	657	180	30	131
Tuning implement	F. W. Hale	310,674	Jan. 13	658	190	30	131
Tuning-pin for musical instruments	H. E. Forrest	322,272	July 14	1159	303	32	220
Tunnel. Device for removing the debris of a blast from the face of a	G. H. Van Vleck	333,966	Dec. 29	2914	769	33	1546
Tunnels. Building	C. SooySmith	331,657	Dec. 1	692	153	33	1107
Tunneling and sinking shafts	C. SooySmith	331,656	Dec. 1	621	153	33	1107
Tunneling-shield	A. Krause	326,659	Sept. 22	1914	502	32	1389
Turbine	C. P. Coolidge	319,957	June 16	1355	356	31	1311
Turbine-wheel gate	E. C. Gevelin	331,051	Nov. 24	2143	581	33	977
Turn-buckle	L. Wilkinson	328,443	Oct. 13	1228	318	33	322
Turn-buckles. Die for making	C. H. Williams	332,127	Dec. 8	1310	340 341	33	1240
Turning crank-pins. Machine for	H. A. Reed and W. H. Maddock	329,320	July 14	1218	320	32	322
Turning-machine	A. T. Booth	329,126	Oct. 27	2181	565	33	417
Turning tool	H. W. Hubbard	325,085	Aug. 25	2291	631	32	972
Turn-tables and bridges. Center for	J. W. Seaver	323,743	Aug. 4	462	133	32	611
Turpentine-hacker	W. Watson	327,207	Sept. 29	2695	700	32	1536
Tuyere	W. I. Mann	313,068	Mar. 3	63	17	30	729
Tuyere. Furnace	A. Brown and W. R. Clark	328,284	Oct. 13	1001	260	33	190
Tuyere-iron	J. Hadley	312,628	Feb. 24	1595	437	30	670
Tuyere-iron	B. S. Logan	311,017	Jan. 20	1118	305	30	921
Tuyere-swinging apparatus	R. Gracey	316,530	Apr. 22	2149	565	31	408
Tuyeres, blast-furnaces, &c. Water-circulation for	E. A. Uehling	330,442	Nov. 17	1374	366	33	782
Tweezers and screw-driver. Combined	C. E. Glessner	311,308	Jan. 27	1543	420	30	304
Tweezers. Diamond	R. Hensley	327,334	Sept. 29	2940	767	32	1578
Twine-holder	J. L. Byers	318,868	May 26	2008	699	31	1094
Twine-package	A. R. Turner, Jr.	318,933	May 26	2035	711	31	1039
Twist-drill	M. C. Johnson	329,174	Oct. 27	2240	580	33	1022
Twist-drill	A. Söderström	321,144	June 30	2976	728	31	1022
Twist-drill socket	G. A. Letter	321,615	July 7	2829	75	31	54
Twist-drills. Machine for making	F. Buchter	320,456	June 23	2081	548	31	1449
Twist-drills. Machine for making	S. Moore	331,904	Dec. 8	975	253	31	1181
Twist-drills. Machine for making	F. H. Richards	320,968	June 30	2744	730	31	1580
Twist-drills. Machine for making	F. H. Richards	320,969	June 30	2747	730	31	1580
Twist-drills. Machine for making	G. R. Stetson	312,401	Feb. 17	1292	356 357	30	604
Twist-drills. Manufacturing	G. R. Stetson	331,739	Dec. 1	743	188	33	1130
Twister-head for machines for forming interlocking eyes	R. Faries	333,121	Dec. 29	2711	711	33	1509
Tympan-sheet and compound for same	J. P. Babington	312,694	Feb. 24	1681		30	685
Type-bars. Machine for dressing	O. Mergenthaler	328,961	Oct. 27	1931	503 504	33	373
Type-case stand	H. Wells	327,622	Oct. 6	124	43	33	31
Type. Elastic-faced printing	R. H. Smith	326,599	Sept. 22	1834	492	32	1376
Type for matrix-making	J. O. Clephane	311,412	Jan. 27	1687	490	30	331

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Type-founding machine.....	J. M. Hepburn.....	324,111	Aug. 11	949	261 262 263	32	707
Type-matrices. Machine for forming.....	O. Mergenthaler.....	332,354	Dec. 15	1623	426 427 428	33	1303
Type-matrices. Machine for making.....	F. D. Maltby.....	329,466	Nov. 3	48	13 14 15	33	514
Type-mold.....	I. Baas, Jr., and L. B. Benton.....	326,009	Sept. 8	1047	260 469	32	1215
Type. Setting.....	J. E. Munson.....	320,271	June 16	1769	470 471 472	31	1385
Type-setting machine.....	J. E. Munson.....	320,272	June 16	1775	473 474 475	31	1386
Type-wheels. Apparatus for making.....	E. R. and A. W. Hoffmann.....	323,677	Oct. 20	1547	403	33	296
Type-writer.....	B. T. Mulligan.....	333,080	Dec. 22	2641	692 693	33	1490
Type-writers. Cabinet or case for.....	W. Horrocks.....	333,225	Dec. 29	2855	746 560	33	1534
Type-writers. Register for.....	H. W. Yonley.....	329,116	Oct. 27	2165	561	33	414
Type-writing machine.....	J. C. Allen.....	312,546	Feb. 17	1498	408	30	642
Type-writing machine.....	W. J. Barron.....	330,198	Nov. 10	1043	272	33	711
Type-writing machine.....	E. S. Belden.....	310,244	Jan. 6	102	28, 29	30	22
Type-writing machine.....	E. S. Belden.....	315,700	Apr. 14	996	261 262	31	187
Type-writing machine.....	E. S. Belden.....	315,701	Apr. 14	998	263	31	188
Type-writing machine.....	E. S. Belden.....	315,702	Apr. 14	999	263	31	188
Type-writing machine.....	E. S. Belden.....	324,520	Aug. 18	1518	418 419	32	819
Type-writing machine.....	V. W. Blanchard.....	321,479	July 7	97	26	32	19
Type-writing machine.....	B. A. Brooks.....	323,495	Aug. 4	143	42, 43	32	548
Type-writing machine.....	L. S. Burridge and N. R. Marshman.....	314,996	Apr. 7	13	4	31	5
Type-writing machine.....	L. S. Burridge and N. R. Marshman.....	315,386	Apr. 7	547	141	31	99
Type-writing machine.....	S. S. Burt.....	317,499	May 12	776	198 199	31	672
Type-writing machine.....	M. C. Dodge.....	312,981	Feb. 24	2058	562	30	753
Type-writing machine.....	P. T. Dodge.....	322,810	July 21	1877	497	32	357
Type-writing machine.....	L. C. Farmer.....	317,753	May 12	1101	289 290	31	732
Type-writing machine.....	G. C. Garrison.....	312,113	Feb. 10	877	240 241	30	520
Type-writing machine.....	H. A. H. Guhl.....	318,426	May 19	2004	539 540	31	908
Type-writing machine.....	A. P. Hansen.....	327,946	Oct. 6	569	148	33	102
Type-writing machine.....	L. H. Hoefer.....	316,267	Apr. 21	1773	466 467	31	335
Type-writing machine.....	J. A. Kaley.....	317,371	May 5	597	153 154	31	632
Type-writing machine.....	G. Lucas.....	313,827	Mar. 10	1068	275 276	30	964
Type-writing machine.....	J. R. Murphy.....	324,407	Aug. 18	1368	372 373	32	793
Type-writing machine.....	N. F. Petit, Jr.....	310,308	Jan. 6	196	53	30	37
Type-writing machine.....	E. R. Roe.....	325,446	Sept. 1	312	76	32	1075
Type-writing machine.....	C. Spiro.....	322,495	July 21	1472	386 387 388	32	284
Type-writing machine.....	C. Spiro.....	322,989	July 28	2150	571	32	415
Type-writing machine.....	C. Spiro.....	331,337	Dec. 1	111	26	33	1018
Type-writing machine.....	F. X. Wagner.....	326,178	Sept. 15	1289	330 331	32	1265
Type-writing machine.....	T. Wilkins.....	330,183	Nov. 10	1025	268	33	708
Type-writing machine.....	G. W. N. Yost.....	313,973	Mar. 17	1285	335 336	30	1032
Type-writing machines. Aligner for.....	C. Smith.....	325,635	Sept. 1	553	141	32	1120
Type-writing machines. Copy-holder for.....	W. H. Clarkson.....	311,292	Jan. 27	1524	415	30	301
Type-writing machines. Escapement or feeding device for.....	W. S. Boyd.....	326,011	Sept. 8	1049	267	32	1216
Type-writing machines. Index-plate for.....	H. Anderson.....	318,077	May 19	1544	414	31	823
Type-writing machines. Ink-ribbon annunciator for.....	T. I. Daniel.....	332,791	Dec. 22	2243	591	33	1419
Type-writing machines. Inking-ribbon alarm for.....	A. O. Hall.....	314,016	Mar. 13	1338	348	30	1043
Type-writing machines. Platen-shifting attachment for.....	C. S. Southworth.....	331,659	Dec. 1	624	154	33	1107
Type-writing machines. Type-aligner for.....	C. Smith.....	326,062	Sept. 8	1121	285	32	1220
Types. Manufacturing elastic-faced printing.....	R. H. Smith.....	324,423	Aug. 18	1394	380	32	797
Typographic blocks or plates from photo-negatives. Producing.....	G. Sutherland.....	325,636	Sept. 1	554	.....	32	1120
Umbrella.....	W. Egan.....	318,710	May 26	2381	635	31	986
Umbrella.....	R. Folger.....	331,231	Nov. 24	2407	651	33	983
Umbrella.....	R. Geisler.....	330,010	Nov. 10	798	204	33	660
Umbrella.....	G. Gilardini.....	319,225	June 2	352	94	31	1114
Umbrella.....	F. Haitz.....	326,213	Sept. 15	1331	344	32	1275
Umbrella.....	C. R. Hicks.....	313,668	Mar. 10	855	222	30	946
Umbrella.....	J. Matzenbacher.....	328,128	Oct. 13	908	211	33	153
Umbrella.....	J. D. Neabitt.....	324,581	Aug. 18	1595	440	32	835
Umbrella.....	H. F. Sawtelle.....	313,111	Mar. 3	95	25	30	794
Umbrella.....	E. V. Whitaker.....	322,227	July 14	1110	289	32	211
Umbrella and cane. Combined.....	G. Leland.....	329,656	Nov. 3	309	79	33	563
Umbrella and overshoe rack.....	H. J. Smith and C. Rounds.....	322,987	July 28	2148	570	32	414
Umbrella and parasol.....	E. C. Kuhn.....	321,612	July 7	277	74	32	53
Umbrella and parasol.....	J. T. Smith.....	326,890	Sept. 22	2270	594	32	1453
Umbrella and parasol.....	J. Willis.....	319,767	June 9	1074	286	31	1254

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Umbrella and parasol frame	W. B. Conner	330,566	Nov. 17	1528	409	33	812
Umbrella display-rack	S. V. Hendryx	328,487	Oct. 20	1377	331	33	248
Umbrella-displayer	F. R. Hazelton	322,600	July 21	1007	425	32	308
Umbrella drip-cup	L. T. Jones	330,789	Nov. 17	1809	488	33	866
Umbrella. Folding	S. J. Wilson	321,561	July 7	213	56	32	42
Umbrella-frames. Machine for riveting	A. Ligibel	321,231	June 30	3063	819	31	1642
Umbrella joint	S. W. Staats	327,734	Oct. 6	306	78	33	53
Umbrella lock	E. H. Griffin	313,493	Mar. 10	632	164	30	903
Umbrella notch and runner	J. G. Powell	314,394	Mar. 24	1832	487	30	1144
Umbrella notches and runners. Mold for	J. G. Powell	314,395	Mar. 24	1833	488	30	1144
Umbrella, parasol, or sunshade	T. Wrench	323,321	July 28	2703	720	32	515
Umbrella rib-tip shield	W. P. Richards	321,855	July 7	622	160	32	113
Umbrella runner and notch	F. Leecraft	311,015	Jan. 20	1115	304	30	220
Umbrella show-stand	T. M. Torgus	323,977	Aug. 11	772	215	32	675
Umbrella-stand	W. C. Carter	323,397	Aug. 4	19	5	32	526
Umbrella-sticks. Machine for forming ferrule-seats on	H. Plumb	313,836	Mar. 10	1084	281	30	986
Umbrella-support	F. Haitz	314,290	Mar. 24	1094	452	30	1117
Umbrella-support	F. Haitz	326,214	Sept. 15	1331	345	32	1275
Umbrella-support	D. C. Markham	332,917	Dec. 22	2414	638	33	1451
Umbrella-top	D. C. Markham	332,918	Dec. 22	2414	638	33	1451
Undergarment	J. D. Gidley	326,630	Sept. 22	1879	485	32	1385
Underground conductor	P. McMackin	327,458	Sept. 27	3017	788	32	1591
Underground conductor for wires	B. L. Nevins	319,112	June 2	221	58	31	1068
Underground conductors. Apparatus for laying	H. C. Spalding	327,474	Sept. 29	3034	792	32	1594
Underground conductors. Conduit for	H. C. Spalding	327,466	Sept. 29	3026	790	32	1593
Underground conduit	D. H. Dorsett	322,520	July 21	1513	399	32	201
Underground conduit	A. E. Lytle	315,954	Apr. 14	1361	332	31	252
Underground wires and cables. Conduit for	B. L. Nevins	319,420	June 2	592	161	31	1161
Underground wires. Conduit for	W. D. Smith and F. J. Milliken	322,018	July 14	839	219	32	161
Underskirt	J. Mayer	327,183	Sept. 29	2667	693	32	1530
Underwaist	C. N. Chadwick	330,205	Nov. 10	1051	274	33	713
Underwaist. Child's	M. J. Flynn	326,553	Sept. 22	1767	469	32	1304
Universal joint	E. P. Cowles	317,737	May 12	1074	221	31	727
Universal joint for steam, water, and other liquid pipes	E. D. Cody	325,056	Aug. 25	2253	619	32	985
Unloading and elevating apparatus	M. J. McNelly	310,699	Jan. 13	692	190	30	137
Unwinder. Thread	W. Grover	331,194	Nov. 24	2355	637	33	974
Unwinder. Thread	L. R. Hopkins	330,788	June 23	2409	682	31	1529
Unwinding attachment for spools and bobbins	C. E. Wilkinson	311,625	Feb. 3	230	62	30	306
Upholstering purposes. Preparing feather-vanes for	E. K. Warren	327,127	Sept. 29	2590	449	32	1516
Upholstering-spring	C. H. Ames	316,218	Apr. 21	1712	449	31	324
Upholstering-springs. Machine for making	P. Fraser	323,657	Aug. 4	362	103	32	590
Upholstery-trimming and making the same	H. C. Lees	317,151	May 5	298	76	31	578
Upright boiler	M. Cridge and T. H. Carlin	332,188	Dec. 8	1390	360	33	1254
Urinal	J. E. Boyle	329,806	Nov. 3	512	130	33	602
Urn for cooking purposes. Water-	J. F. Trout	326,529	Sept. 15	1736	453	32	1351
Urn. Hot-water	E. B. Manning	319,736	June 9	1034	274	31	1249
V-jointer	R. A. Bauer	319,173	June 2	289	77	31	1101
Vacuum-brake apparatus. Automatic	J. Gresham	332,653	Dec. 15	2049	538	33	1376
Vacuum-pan	A. W. Colwell	330,209	Nov. 10	1056	276	33	714
Vacuum. Producing a	G. Hambruch	323,325	July 28	2624	698	32	508
Vaginal irrigator	J. W. Gordon and G. T. Blanchard	331,128	Nov. 24	2257	613	33	937
Valises, &c. Detachable handle and safety-lock attachment for	C. White	318,672	May 26	2335	693	31	977
Valve:							
See Sewer-pipe valve.							
Valve	A. Bergès	314,784	Mar. 31	2380	630	30	1270
Valve	D. D. Buick	321,885	July 7	655	170	32	119
Valve	W. J. Cambridge	330,676	Nov. 17	1661	447	33	839
Valve	F. W. Dick and J. Fleming	328,390	Oct. 13	1157	298	33	929
Valve	W. F. Durfee	323,404	Aug. 4	28	8	32	525
Valve	L. G. Engel	321,270	July 14	1156	303	32	280
Valve	T. and J. Galvin	321,807	July 7	541	143	32	101
Valve	H. Hall	310,509	Jan. 6	440	121	30	86
Valve	O. B. Hall	327,875	Oct. 6	474	124	33	24
Valve	J. M. Harman	327,548	Oct. 6	62	14	33	12
Valve	F. Hennebochle	323,144	July 28	2338	686	32	433
Valve	B. W. Hoxie	311,833	Feb. 3	420	131	30	439
Valve	W. S. Jarboe	312,725	Feb. 24	1728	475	30	694
Valve	E. A. W. Jefferies	318,000	May 19	1443	387	31	805
Valve	C. T. Lormor	320,807	June 23	2322	668	31	1533
Valve	J. O'Meara	316,168	Apr. 21	1650	439	31	313
Valve	G. E. Pottle	320,062	June 30	2733	728	31	1572
Valve	T. L. Rankin	312,164	Feb. 10	968	264	30	535
Valve	N. M. Stebbins	313,549	Mar. 10	609	183	30	910
Valve	V. O. Strobel	327,117	Sept. 29	2572	671	32	1513
Valve	F. Tudor	319,939	June 9	1322	340	31	1299
Valve	M. Wuernel	330,861	Nov. 17	1907	516	33	824
Valve and alarm for steam-boilers. Safety-	W. B. Railing and C. N. May	317,952	May 12	1367	367	31	793
Valve and blow-off cock. Safety-	D. F. Reese	314,719	Mar. 31	2266	602	30	1249
Valve and faucet	R. Marsh	330,680	June 23	2615	693	31	1551
Valve and lever. Tank	J. E. Boyle	328,873	Oct. 20	1785	460	33	341
Valve and muffler. Pop	C. H. De Witt	322,640	Oct. 20	1748	455	33	334
Valve and operating mechanism for valves	W. Scott. (Reissue)	10,653	Oct. 20	1850	483	33	120
Valve. Automatic	J. A. Ayres	327,966	Oct. 13	625	165	33	323
Valve. Automatic air-	W. Vanderman	312,042	Feb. 10	786	214	30	502

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'k.	Vol.	Page.
Valve. Automatic safety regulator.	J. W. Pertz	330,615	Nov. 17	1583	494	33	823
Valve. Balance.	A. Beckett	325,640	Sept. 8	578	146	32	1130
Valve. Balance slide.	W. A. Campbell	324,299	Aug. 11	1219	332	32	758
Valve. Balance slide.	G. T. Snowden	326,800	Sept. 23	2130	557	32	1429
Valve. Balance slide.	J. B. Wallace	319,151	June 2	265	70	31	1096
Valve. Balanced.	D. Mercer	312,000	Feb. 10	734	201	30	492
Valve. Balanced.	M. N. Packard	325,963	Sept. 8	987	251	32	1205
Valve. Balanced slide.	J. E. Baker	315,459	Apr. 14	665	173	31	125
Valve. Balanced slide.	A. Jackson	312,858	Feb. 24	1909	523	30	725
Valve. Balanced slide.	P. McDermott	312,144	Feb. 10	922	250	30	527
Valve. Balanced slide.	J. G. Miner	314,258	Mar. 24	1647	437	30	1108
Valve. Balanced slide.	J. D. Olds	319,115	June 2	226	59	31	1069
Valve. Balanced slide.	J. D. Olds	332,279	Dec. 15	1521	398	33	1284
Valve. Balanced slide.	F. M. Stevens	320,599	June 23	2266	599	31	1484
Valve. Balanced slide.	C. P. Wetherill	319,649	June 9	924	244	31	1227
Valve. Balanced slide.	D. A. Woodbury. (Reissue)	10,661	Nov. 10	1265	336	33	755
Valve. Balanced slide.	D. A. Woodbury	331,018	Nov. 24	2107	570	33	930
Valve. Balanced slide.	D. A. Woodbury	331,858	Dec. 8	900	235	33	1165
Valve. Balanced stop.	W. Jackson	329,650	Nov. 3	302	77	33	569
Valve. Ball.	C. Whitaker	326,613	Sept. 22	1859	487	32	1370
Valve. Bladder.	E. L. Perry	329,773	Nov. 3	469	118	33	594
Valve. Blowing-engine.	F. W. Gordon	325,074	Aug. 25	2276	625	32	969
Valve box for water or other main and service pipes.	D. H. Sherman	313,541	Mar. 10	689	180	30	914
Stop.							
Valve case. Straight-way.	A. Weber	316,588	Apr. 28	2213	582	31	420
Valve. Check.	D. Austin and F. H. Smith	322,889	July 28	2006	530	32	388
Valve. Check.	W. Barker	314,216	Mar. 24	1593	481	30	1099
Valve. Check.	W. Chappell	314,107	Mar. 17	1455	380	30	1064
Valve. Check.	J. D'Esté	326,549	Sept. 22	1762	461	32	1363
Valve. Check.	L. Schutte	328,979	Oct. 27	1967	511	33	380
Valve. Check.	P. G. Van Wie	325,229	Sept. 1	81	24	32	1031
Valve. Circular slide.	W. C. Church	316,236	Apr. 21	1736	455	31	328
Valve. Circular slide.	W. C. Church	316,237	Apr. 21	1737	456	31	328
Valve. Combined stop and check.	L. G. Gilbert	315,273	Apr. 7	407	101	31	73
Valve. Combined throttle and safety.	H. A. Langhlin	318,004	May 19	1450	388	31	806
Valve. Combined waste and overflow.	W. A. Pitt	310,057	Apr. 21	1492	390	31	223
Valve. Compound.	G. W. Appleby	318,159	May 19	1649	441	31	843
Valve. Differential-pressure.	A. Kaiser	313,080	Mar. 3	54	15	30	788
Valve. Differential-pressure.	A. Kaiser. (Reissue)	10,645	Sept. 22	2327	609	32	1464
Valve. Disk and cone.	T. Barber	311,942	Feb. 10	643	178	30	476
Valve. Engine.	M. C. Baker	319,661	June 9	936	248	31	1229
Valve. Engine.	G. Schuhmann	315,844	Apr. 14	1199	312	31	224
Valve for beer-casks. Safety.	J. C. Schaefer	318,040	May 19	1496	401	31	815
Valve for blowing-engines.	P. L. Welmer	313,140	Mar. 3	135	33	30	801
Valve for boilers. Signal.	A. McLane	312,741	Feb. 24	1751	482	30	698
Valve for drinking-troughs. Automatic.	J. I. Richey	319,025	June 2	114	31	31	1069
Valve for engine-cylinders. Automatic waste.	W. R. Townsend	320,826	June 23	2544	674	31	1537
Valve for engines.	J. L. Bogert	325,488	Sept. 1	364	88, 89	32	1085
Valve for engines. Relief.	C. B. Turner	326,070	Sept. 8	1134	288	32	1231
Valve for fluid-pressure brakes. Engineer's.	J. Kearney	325,092	Aug. 25	2300	633	32	973
Valve for steam-boilers. Check.	R. McDowell	320,320	June 16	1972	519	31	1422
Valve for steam-engine cylinders. Relief.	T. M. Fell	310,935	Jan. 20	1001	271	30	198
Valve for steam-engine cylinders. Relief.	T. M. Fell	319,571	June 9	813	216	31	1207
Valve-gear.	G. Abrams and N. Nilson	329,525	Nov. 3	141	36	33	531
Valve-gear.	P. Brotherhood	323,270	July 28	2533	672	32	485
Valve-gear.	S. E. Crawford	321,523	July 7	938	63	32	46
Valve-gear.	F. M. Davis	329,228	Oct. 27	2406	623	33	460
Valve-gear.	J. R. Deering	321,195	June 30	3041	605	31	1634
Valve-gear.	J. Dick	329,691	Nov. 10	638	162	33	631
Valve-gear.	W. H. Donaldson	324,094	Aug. 11	929	256	32	703
Valve-gear.	C. P. Holst	323,935	Aug. 11	717	200	32	665
Valve-gear.	A. L. Ide	319,819	June 9	1158	306	31	1869
Valve-gear.	F. W. Jenkins	321,111	June 30	2937	779	31	1614
Valve-gear.	A. B. Landis	321,117	June 30	2943	780	31	1615
Valve-gear.	H. G. Manning	319,737	June 9	1035	274	31	1248
Valve-gear.	M. N. Packard	325,964	Sept. 8	968	251	32	1205
Valve-gear.	G. T. Pillsbury	331,003	Nov. 24	2993	566	33	927
Valve-gear.	D. D. Pinkham	324,724	Aug. 18	1681	517	32	880
Valve-gear.	J. B. Quinn	329,338	Oct. 27	2456	641	33	474
Valve-gear.	H. F. Shaw	322,242	Dec. 22	2304	606	33	1430
Valve-gear.	J. A. Stout	310,743	Jan. 13	747	203	30	148
Valve-gear.	G. S. Strong	315,972	Apr. 14	1386	359	31	257
Valve-gear.	L. Subrheingrich	318,827	May 26	2547	678	31	1014
Valve-gear.	J. B. Sutherland	317,475	May 5	742	188	31	657
Valve-gear.	W. Wilson	327,047	Sept. 29	2476	647	32	1497
Valve-gear. Engine.	G. Abrams and N. Nilson	317,071	May 5	184	40	31	556
Valve-gear. Engine.	J. Grime	330,782	Nov. 17	1802	485	33	865
Valve-gear. Engine.	W. Voit	319,433	June 2	618	167	31	1166
Valve-gear for compound engines.	G. E. Dow	330,387	Nov. 17	1301	345	33	769
Valve-gear. Locomotive.	W. J. Lewis	331,799	Dec. 8	819	208	33	1152
Valve gear. Reversing.	P. Maltby	333,473	Dec. 29	8186	831	33	1591
Valve-gear. Steam-engine.	G. Abrams and N. Nilson	316,433	Apr. 28	2015	529	31	383
Valve-gear. Steam-engine.	M. N. Lynn	313,007	Feb. 24	2099	572	30	760

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dis.	Vol.	Page.
Valve-gear. Steam-engine.	M. N. Ly'n	332,905	Dec. 8	1415	365	31	1258
Valve-gear. Steam-engine.	J. Nenert	315,654	Apr. 14	940	246	31	1175
Valve-gear. Steam-engine.	J. D. Olds	319,114	June 2	223	58, 59	31	1088
Valve-gear. Steam-engine.	R. Scheidler	316,187	Apr. 21	1671	438	31	317
Valve-gear. Steam-engine.	A. J. Stevens	324,964	Aug. 25	2130	522	32	942
Valve-gear. Steam-engine.	T. B. Van Anken	323,238	July 28	2492	662	32	477
Valve-gear. Steam-engine.	J. Wheelock	326,819	Sept. 22	2169	565	32	1434
Valve-gearing	G. M. Pelton	331,436	Dec. 1	259	70	33	1044
Valve-gearing. Steam-engine	T. H. Carlin	316,739	Apr. 28	2439	635	31	461
Valve. Governor.	E. Wright	324,446	Aug. 18	1419	387	32	802
Valve handle. Steam.	J. E. Gaffley	327,251	Sept. 29	2749	713	32	1546
Valve. Hydraulic.	R. H. Tweddell, J. Platt, and J. Fielding.	317,428	May 5	624	173	31	646
Valve-indicator	A. L. Ide	322,723	July 21	1768	467	32	338
Valve-lever. Throttle.	A. M. Stickney	313,886	Mar. 17	1172	306	30	1012
Valve. Lock.	F. Engelhard	322,590	July 21	1595	421	32	305
Valve-lock	M. Jones	313,211	Mar. 3	253	64	30	883
Valve mechanism	C. A. Dixon	319,802	June 9	1130	300	31	1264
Valve-motion	G. S. Strong	320,995	June 23	2639	700	31	1354
Valve-motion for locomotives. Hydraulic	F. F. Ross	330,927	Nov. 24	1997	540	33	908
Valve-motion for steam-engines	W. G. Chapin	322,348	July 14	1259	329	32	929
Valve-movement for direct-acting engines	W. D. Hooker	313,868	Mar. 17	1136	226	30	1005
Valve. Multiplex safety.	G. W. Richardson	311,147	Jan. 30	1303	359	30	255
Valve-operating mechanism	L. T. Scofield	317,217	May 5	394	99	31	585
Valve-operating mechanism	F. M. Stevens	323,606	Aug. 4	299	84	32	578
Valve-operating mechanism	G. S. Strong	320,992	June 23	2636	668	31	1354
Valve-operating mechanism. Slide	J. W. Sargent	318,037	May 19	1493	401	31	814
Valve-operator. Electric	C. L. Clarke	327,525	Oct. 6	18	5	33	5
Valve or cock for liquid-receptacles	L. Abbott	330,766	Nov. 17	1785	480	33	862
Valve or steam-trap. Air.	J. P. Marsh	310,583	June 9	852	226	31	1214
Valve. Piston.	P. Armington	323,652	Dec. 15	2014	528	33	1370
Valve. Piston.	F. Rosdick	323,410	Aug. 4	36	9	32	529
Valve. Piston.	J. W. Sargent	332,113	Dec. 8	1293	335	33	1237
Valve. Pop safety.	J. E. Davis	323,794	Aug. 4	522	150	32	622
Valve. Pop safety.	W. E. Pearson	320,200	June 16	1794	477	31	1329
Valve. Pressure-regulating	H. F. Hodges	323,039	July 28	2224	588	32	426
Valve. Regulating.	E. Hill	317,357	May 5	580	149	31	629
Valve. Regulator.	C. Priemann	321,913	July 7	689	180	32	185
Valve. Relief.	W. B. Coulter	311,723	Feb. 3	338	94	30	413
Valve. Reversing.	W. A. Campbell	324,222	Aug. 11	1120	304	32	738
Valve. Reversing.	P. Maltby	333,419	Dec. 29	3112	812	33	1580
Valve. Reversing.	E. L. Moore	314,341	Mar. 24	1764	471	30	1131
Valve. Reversing.	H. Stevens	323,462	Aug. 4	100	30	32	541
Valve-rod connection	J. B. Stanwood	313,961	Mar. 17	1272	332	30	1030
Valve. Rotary automatic cut-off.	H. F. Hodges	330,328	Nov. 10	1204	322	33	744
Valve. Rotary steam.	G. W. Sypher	321,156	June 30	2990	793	31	1624
Valve. Safety.	J. Barbe	328,451	Oct. 20	1239	321	33	941
Valve. Safety.	T. Burke	315,475	Apr. 14	693	181	31	129
Valve. Safety.	W. A. Campbell	314,649	Mar. 31	2181	578	30	1233
Valve. Safety.	G. H. Crosby	318,961	June 2	41	11	31	1056
Valve. Safety.	W. E. Granger	326,904	Sept. 22	2220	599	32	1436
Valve. Safety.	W. S. Jarboe	312,724	Feb. 24	1726	474	30	893
Valve. Safety.	T. Kays	318,748	May 26	2435	652	31	996
Valve. Safety.	W. N. Nicholson and A. T. Allcock	310,459	Jan. 6	377	105	30	74
Valve. Safety.	J. W. Powers	328,062	Oct. 13	796	190	33	138
Valve. Safety.	G. W. Richardson	325,273	Sept. 1	54	17	39	1098
Valve. Safety.	H. C. Wilder	322,084	July 14	925	239	32	177
Valve. Slide.	C. M. Giddings	314,120	Mar. 17	1475	365	30	1069
Valve. Slide.	D. O. Ladd	331,506	Dec. 1	353	95, 96	33	1061
Valve. Slide.	W. Mitchell	331,992	Dec. 8	1106	287	33	1262
Valve. Sliding gate.	J. Old	322,939	Dec. 22	2441	646	33	1437
Valve. Slow-closing.	E. L. Knight	319,268	June 2	405	107	31	1194
Valve. Steam.	W. C. McKinnis	312,488	Feb. 17	1413	390	30	626
Valve. Steam.	W. Mitchell	320,154	June 16	1691	431	31	1358
Valve. Steam-actuated	J. S. Bartlett	325,900	Sept. 8	901	237	32	1189
Valve. Steam-actuated	W. A. P. Bicknell	320,212	June 16	1694	450	31	1372
Valve. Steam-actuated	C. H. Barton	317,500	May 12	780	199	31	673
Valve. Steam-actuated	L. B. Carricaburu	321,085	June 30	2903	772	31	1809
Valve. Steam-actuated	L. B. Carricaburu	321,581	July 7	925	62	32	46
Valve. Steam-actuated	E. M. Corvett	327,069	Sept. 29	2502	653	32	1501
Valve. Steam-actuated	J. E. Denton	325,568	Sept. 1	394	97	32	1080
Valve. Steam-actuated	G. H. Dickson	319,965	June 16	1368	359	31	1313
Valve. Steam-actuated	A. Horsfield	321,605	July 7	269	71	31	52
Valve. Steam-actuated	H. L. Perrine	313,367	Mar. 3	464	190	30	892
Valve. Steam-actuated	W. S. Phelps	313,684	Mar. 10	869	227	30	949
Valve. Steam-actuated	H. C. Sergeant	330,068	Nov. 10	875	235	33	678
Valve. Steam-boiler	W. R. Edwards and F. J. Schultz	321,197	June 30	3046	806	31	1635
Valve. Steam-engine	H. C. Anson	332,863	Dec. 22	2338	618	33	1435
Valve. Steam-engine	C. A. Carlson	326,398	Sept. 15	1576	409	32	1221
Valve. Steam-engine	D. D. Hardy	313,729	Mar. 10	938	243	30	961
Valve. Steam-engine	D. C. Harlow	313,496	Mar. 10	636	165	30	904
Valve. Steam-engine	A. L. Ide	319,261	June 2	397	105	31	1193
Valve. Steam-engine	W. H. Smith	317,870	May 12	1260	333	31	722
Valve. Steam-engine	P. L. Welmer	323,474	Aug. 4	115	33, 34	32	543
Valve. Steam-engine	H. H. Westinghouse	332,689	Dec. 15	2099	551	33	1385

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Valve. Steam-engine.	H. H. Westinghouse and W. A. Bole.	329,347	Oct. 27	2500	644	33	476
Valve. Steam-engine.	J. Wheelock.	330,820	Sept. 22	2171	566	32	1435
Valve. Steam-engine relief.	H. G. Robinson.	310,912	Jan. 20	968	302	30	192
Valve. Steam-engine reversing.	A. Freeman.	311,890	Feb. 10	578	158	30	464
Valve. Steam-engine rotary.	J. L. Bogert.	310,978	Jan. 20	1065	289	30	210
Valve. Steam oscillating.	J. M. Kells.	312,126	Feb. 10	888	244	30	523
Valve-stems. Revolvable joint for screw.	J. H. Blessing.	310,870	Jan. 20	909	247	30	183
Valve-stems. Revolvable joint for screw.	J. H. Blessing.	315,464	Apr. 14	672	175	31	126
Valve. Stop.	M. B. Fisher.	310,766	Apr. 28	2476	646	31	468
Valve. Stop.	J. Pfau.	326,238	Sept. 15	1365	352	32	1280
Valve. Stop.	P. Reilly.	324,486	Aug. 18	1469	403	32	811
Valve. Stop and waste.	P. Harvey.	314,836	Mar. 31	2445	646	30	1283
Valve. Stop and waste.	P. Harvey.	318,247	May 19	1760	471	31	864
Valve. Stop and waste.	P. Harvey.	329,736	Nov. 3	418	108	33	564
Valve. Stop and waste.	P. Harvey.	331,789	Dec. 8	806	205	33	1150
Valve. Straight-way.	P. B. Page.	314,708	Mar. 31	2248	588	30	1246
Valve. Straight-way stop.	H. Hall.	318,894	May 26	2635	699	31	1031
Valve. Straight-way stop.	H. Hall.	330,322	Nov. 10	1198	390	33	743
Valve. Throttle.	E. Lunkenheimer. (Reissue)	10,557	Feb. 3	525	149	30	447
Valve. Throttle.	L. S. Woodbury.	318,072	May 19	1539	412	31	822
Valve. Throttle.	C. H. Worthen.	332,855	Dec. 22	2323	615	33	1433
Valves and their spindles. Swivel-connection for.	H. R. Frisbie.	324,676	Aug. 18	1739	479	32	861
Valves. Core for straight-way stop.	G. Hildreth.	330,327	Nov. 10	1203	322	33	744
Valves. Mechanism for operating.	J. H. Blessing.	326,196	Sept. 15	1304	337	32	1269
Valves of fluid-meters. Apparatus for actuating the.	F. W. Hood and L. W. Lombard.	331,136	Nov. 24	2267	615	33	959
Valves. Testing globe.	G. F. Hammer.	315,276	Apr. 7	411	102	31	75
Valveless engine.	M. J. O'Connor.	321,842	July 7	600	156	32	110
Vapor apparatus for hot-houses, &c.	H. Steinko and M. Limprecht.	320,411	June 16	2015	529	31	1429
Vapor bath.	P. D. Pink.	317,669	May 12	995	258	31	712
Vapor-burner.	C. Barton.	323,103	July 28	2310	611	32	444
Vapor-burner.	C. V. Best.	312,247	Feb. 17	1076	297	30	564
Vapor-burner.	D. A. Dangler and E. H. Wacker-man.	318,090	May 19	1500	418	31	826
Vapor-burner.	Z. Davis.	311,818	Feb. 3	458	125	30	435
Vapor-burner.	E. C. Peck.	329,481	Nov. 3	75	20	33	519
Vapor-burner.	O. B. Peck.	317,567	May 12	858	221	31	687
Vapor-burner.	N. L. Ponschkeff.	323,594	Aug. 4	279	81	32	573
Vapor-burner.	P. Schneider and H. Trenkamp.	318,303	May 19	1831	491	31	878
Vapor-burner.	P. Schneider and H. Trenkamp.	318,304	May 19	1833	491	31	878
Vapor-burner.	J. B. Wallace.	314,404	Mar. 24	1845	492	30	1147
Vapor-burner.	C. and J. Whittingham and R. A. Jones.	321,872	July 7	642	166	32	117
Vapor-burner.	F. B. Wigle.	318,151	May 19	1639	438	31	841
Vapor-burner attachment.	A. P. Avery.	312,085	Feb. 10	816	223	30	508
Vapor-burner for soldering and branding irons.	L. Baumeister.	317,489	May 12	766	195	31	670
Vapor burner. Oil.	F. Marquart.	322,620	July 21	1633	432	32	313
Vapor-burner valve.	D. E. Bangs.	312,067	Feb. 10	818	224	30	508
Vapor-burners. Flame-deflector for.	E. A. Edwards.	314,923	Mar. 31	2566	678	30	1303
Vapor engine. Explosive.	L. H. Nash.	331,078	Nov. 24	2179	591	33	943
Vapor engine. Explosive.	L. H. Nash.	331,079	Nov. 24	2182	592	33	944
Vapor engine. Explosive.	L. H. Nash.	331,210	Nov. 24	2378	643	33	978
Vapor-generator.	M. Chase.	326,478	Sept. 15	1600	436	32	1338
Vapor-generator for baths and bath apparatus.	G. Douglass.	327,539	Oct. 6	49	11	33	10
Vaporizer.	J. H. Valentine.	323,547	Aug. 4	218	64, 65	32	562
Vaporizer and fumigator.	G. S. Goodhart.	312,459	Feb. 17	1372	378	30	619
Varnish.	W. E. B. Davies.	320,464	June 23	2091	501	31	1451
Varnish.	G. Renas.	314,607	Mar. 31	2119	501	30	1223
Varnish.	H. T. Smith.	322,016	July 14	837	201	32	160
Varnish. Apparatus for the manufacture of.	S. W. Mayer and P. J. Bungart.	318,642	May 26	2292	612	31	969
Varnish from sludge-tar. Manufacture of.	R. M. Breinig.	315,597	Apr. 14	866	201	31	161
Varnish. Manufacture of amber.	J. W. Goussen.	311,118	Jan. 20	1261	345	30	247
Varnishing-machine.	J. E. Hinds.	325,176	Aug. 25	2407	661	32	993
Varnishing-machine.	C. E. Myers.	326,051	Sept. 8	1101	281	32	1225
Vases having a body made of plastic material. Construction of.	J. J. West.	311,092	Jan. 20	1227	336	30	241
Vat.							
See Cheese-vat. Liming-vat.							
Vault. Burial.	O. H. Anderson.	325,230	Sept. 1	2	1	32	1015
Vault. Burial.	L. Dydrnski.	325,826	Sept. 8	825	206	32	1174
Vault-cover.	W. H. Beckwith.	314,781	Mar. 31	2377	620	30	1270
Vault-cover.	J. Raynald.	315,836	Apr. 14	1166	309	31	222
Vault cover and ventilator.	A. W. Herr.	330,400	Nov. 17	1322	351	33	773
Vault cover or grating. Illuminating.	T. Hvatt. (Reissue)	10,626	July 21	1998	528	32	380
Vault-covers. Hinge and frame for.	M. S. Weller.	316,705	Apr. 22	2287	622	31	452
Vault. Fire-proof.	C. C. Gilman.	322,247	Dec. 15	1480	386	31	1276
Vault. Grave.	W. Corbett.	323,917	Aug. 11	691	194	32	660
Vault. Safe-deposit.	R. E. Dixon.	329,147	Oct. 27	2206	572	33	422
Vegetable and meat slicer.	T. M. Knapp.	331,411	Dec. 1	221	57, 58	33	1037
Vegetable boiler and cutter.	C. Unger.	314,084	Mar. 17	1423	372	30	1059
Vegetable-cutter.	A. Cannon.	330,560	Nov. 17	1522	407	33	810
Vegetable-cutter.	J. Eckhardt.	323,127	July 28	2340	621	32	450
Vegetable-cutter.	A. John.	326,222	Sept. 15	1342	347	32	1276
Vegetable-cutter.	A. Leonhardt.	330,246	Nov. 10	1099	291	33	723
Vegetable-slicer.	H. Hasenpflug.	318,560	May 26	2200	568	31	852
Vegetable-slicing device.	W. Popp.	323,960	Aug. 11	748	208	32	671
Vegetable-slicing machines. Supporting-case for.	A. J. Kludzio.	322,410	Oct. 13	1187	307	32	224
Vegetable-washer.	J. S. Dodge.	322,429	July 21	1372	358	32	266
Vehicle.	D. S. Anderson.	327,429	Sept. 29	2283	779	32	1586

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				Spec.	Dr. k.	Vol.	Page.
Vehicle	J. L. Mather	313,507	Mar. 10	649	169	30	906
Vehicle	T. H. Paessler	328,709	Oct. 30	1587	413	33	303
Vehicle	J. W. Patterson and N. R. Jones	313,763	Mar. 10	929	255	30	970
Vehicle-body	J. McQueen and W. H. Carmont	330,996	Nov. 24	9084	564	33	925
Vehicle body and seat	D. A. Vanhorne	314,499	Mar. 24	1980	528	30	1171
Vehicle-body corner-iron	C. R. Wilson and G. M. Chalfant	397,045	Sept. 29	2473	646	32	1496
Vehicle-body support	T. D. Lines	313,350	Mar. 3	444	112	30	838
Vehicle-bolster stake	R. Gerner	313,199	Mar. 3	236	60	30	830
Vehicle-brace. Spring	N. Willmes	399,798	Nov. 3	496	125	33	509
Vehicle-brake	T. Briggs	332,492	Dec. 15	1793	471	33	1331
Vehicle-brake	F. C. Day	312,436	Feb. 17	1337	368	30	613
Vehicle-brake	J. B. Hinton	329,312	Oct. 27	2445	633	33	467
Vehicle-brake	P. H. Ingraham	310,518	Jan. 6	449	124	30	87
Vehicle-brake	J. L. McIntosh, E. H. Bacon, and T. Vail	317,164	May 5	332	80	31	528
Vehicle-brake	E. Steck	321,546	July 7	196	52	33	39
Vehicle-brake. Automatic	R. R. Pace	317,846	May 12	1227	325	31	756
Vehicle-breeching attachment	J. C. Williams	312,416	Feb. 17	1300	361	30	695
Vehicle. Child's	J. S. Anthes	323,131	Dec. 8	1321	343	33	1942
Vehicle-coupling	J. Klenk	324,474	Aug. 18	1453	387	34	886
Vehicle-dash	A. S. Parker	332,282	Dec. 15	1726	400	33	1265
Vehicle-dash-board	K. J. Schuster	313,889	Mar. 17	1105	303	30	1010
Vehicle-drop-perch	H. W. Pull	314,714	Mar. 31	2259	600	30	1947
Vehicle-drop-perch	H. W. Pull (Reissue)	10,616	June 23	2655	705	31	1556
Vehicle. Dumping	E. Von Oven	327,505	Sept. 29	3071	800	32	1091
Vehicle fan attachment	R. Meacham	320,082	June 16	1524	404	31	1341
Vehicle-gear	J. N. Brown	318,663	May 26	2603	690	31	1024
Vehicle-gear-iron	C. R. Wilson	311,094	Jan. 20	1229	337	30	241
Vehicle. One-wheeled	J. O. Loe	325,548	Sept. 1	448	111	32	1101
Vehicle platform-gear	P. B. Cunningham and A. Barnes	331,688	Dec. 1	669	166	33	1116
Vehicle platform-spring	A. B. Johnson	330,405	Nov. 17	1327	333	33	773
Vehicle-reach	J. A. Mack and C. Hanson	331,310	Dec. 1	72	18	33	1012
Vehicle. Road	W. J. Brewer	312,960	Feb. 24	2032	554	30	747
Vehicle. Road	W. J. Brewer (Reissue)	10,635	Aug. 18	1894	590	32	891
Vehicle running-gear	C. Ahrens	324,207	Aug. 11	1102	297	32	735
Vehicle running-gear	J. B. Armstrong	319,049	June 2	140	38	31	1073
Vehicle running-gear	J. B. Armstrong	319,050	June 2	142	38	31	1073
Vehicle running-gear	J. M. Bonck	331,471	Dec. 1	310	83	33	1063
Vehicle running-gear	A. K. Caverly	314,222	Mar. 24	1601	423	30	1100
Vehicle running-gear	A. Chalfant	318,354	May 19	1913	516	31	692
Vehicle running-gear	J. T. Cordery	329,817	Nov. 3	529	135	33	694
Vehicle running-gear	M. Frear	313,486	Mar. 10	623	169	30	902
Vehicle running-gear	G. E. Garretson	328,933	Oct. 27	1835	491	33	366
Vehicle running-gear	S. Gesner, Jr., and J. F. Stevens	311,654	Feb. 3	257	71	30	397
Vehicle running-gear	N. L. Holmes	326,116	Sept. 15	1186	303	32	1249
Vehicle running-gear	A. G. Johnson	319,621	June 9	1160	306	31	1969
Vehicle running-gear	R. T. Killip	322,109	July 14	960	249	32	183
Vehicle running-gear	A. McPherson and F. P. Ramsdall	332,930	Dec. 22	2427	649	33	1454
Vehicle running-gear	W. Miles	320,260	June 16	1766	492	31	1285
Vehicle running-gear	T. C. Munz	327,405	Sept. 29	2954	771	32	1521
Vehicle running-gear	G. W. Simmons	320,303	June 16	1825	426	31	1235
Vehicle running-gear	J. W. Vaughn	313,392	Mar. 3	493	129	30	886
Vehicle running-gear	R. Wiehle, W. Lorey, Jr., and C. Feuchter	332,029	Dec. 8	1165	304	33	1214
Vehicle running-gear	A. K. Wilson and B. F. Holder	327,371	Sept. 29	2907	759	32	1572
Vehicle sand-band	C. H. Smith	319,529	June 9	750	201	31	1195
Vehicle-seat	F. W. Coleman	322,684	July 21	1710	433	32	328
Vehicle-seat	R. T. Crawford	324,662	Aug. 18	1790	473	32	857
Vehicle-seat	G. W. Payne	327,584	Oct. 6	108	94	33	30
Vehicle-seat and end-gate. Combined	W. P. Walling	324,196	Aug. 11	1086	293	32	733
Vehicle-seat attachment	F. A. Mackie	317,395	May 5	628	160	31	657
Vehicle-seat fastener	E. S. Davis	330,876	Nov. 24	1928	528	33	886
Vehicle-seat spring	T. S. King and C. E. Stivers	314,138	Mar. 17	1459	391	30	1072
Vehicle seat. Two-wheeled	C. W. Burgtorf	320,559	Nov. 17	1321	406	33	819
Vehicle-seats. Adjustable back for	C. Straubel and P. Hebel	332,303	Dec. 15	1551	406	33	1299
Vehicle-seats. Spring-back for	A. Fellows	316,449	Apr. 28	3041	535	31	387
Vehicle-shaft support	J. F. Pace	327,191	Sept. 29	2678	696	32	1532
Vehicle shifting-rail	G. Straw	310,474	Jan. 6	393	109	30	76
Vehicle shifting seat	C. K. Mellinger	321,625	July 7	292	77	32	56
Vehicle shifting top	A. H. Winchell	331,667	Dec. 1	635	166	33	1109
Vehicle. Side-bar	A. A. Abbott	333,271	Dec. 29	2922	764	32	1547
Vehicle. Side-bar	F. Depew	321,587	July 7	244	65	32	47
Vehicle. Side-bar	L. Stonfer	326,692	Sept. 22	1963	516	33	1399
Vehicle. Side-spring	H. A. Moyer	325,182	Aug. 25	2416	663	32	994
Vehicle side spring	C. Haendle	312,844	Feb. 24	1828	517	30	722
Vehicle side spring	J. H. Snodgrass	312,174	Feb. 10	990	267	30	537
Vehicle. Spring	M. P. Henderson	330,025	Nov. 10	819	209	33	665
Vehicle. Spring	C. W. Saladee	331,334	Dec. 1	103	25	32	1018
Vehicle. Spring	J. W. Whittie	326,823	Sept. 23	2176	567	32	1436
Vehicle-spring	A. Armstrong	326,472	Sept. 15	1664	434	32	1377
Vehicle-spring	S. A. Bailey	328,100	Oct. 13	774	202	33	491
Vehicle-spring	F. T. Batzlaff	323,291	July 28	2564	623	32	972
Vehicle-spring	W. L. Bay	313,800	Mar. 10	1038	266	30	362
Vehicle-spring	J. A. Birkimer	322,574	July 21	1580	416	32	6
Vehicle-spring	W. Boughton	310,175	Jan. 6	20	5	30	6
Vehicle-spring	A. S. Bridgee	323,906	Aug. 11	6-1	191	32	684
Vehicle-spring	J. P. Buchholtz	327,518	Oct. 6	10	3	33	4
Vehicle-spring	G. W. Bunn	311,807	Feb. 3	446	121	30	43
Vehicle-spring	C. H. Cain	332,577	Dec. 22	2365	625	33	1440
Vehicle-spring	L. F. Case, Jr	328,287	Oct. 13	1004	261	33	120
Vehicle-spring	J. Dain, Jr	317,745	May 12	1092	286	31	730

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Vehicle-spring	A. H. Dickey	312,441	Feb. 17	1341	370	30	614
Vehicle-spring	H. B. Dye	315,921	Apr. 14	1315	342	31	244
Vehicle-spring	T. Graether	326,031	Sept. 8	1077	475	32	1221
Vehicle-spring	W. W. Grier	320,578	Nov. 17	1540	412	33	814
Vehicle-spring	A. Gunmer	322,924	July 28	2054	543	33	397
Vehicle-spring	G. B. Hamlin	319,243	June 2	375	100	31	1118
Vehicle-spring	J. Hanser	312,846	Feb. 24	1890	518	30	722
Vehicle-spring	C. N. Haskins	330,023	Nov. 10	815	209	33	664
Vehicle-spring	E. J. Hess	329,552	Nov. 3	180	48	33	539
Vehicle-spring	F. Horn	323,335	July 28	2639	702	32	503
Vehicle-spring	J. Hutchins	325,009	Sept. 1	517	130	32	1113
Vehicle-spring	J. J. Kalina	314,029	Mar. 17	1357	353	30	1046
Vehicle-spring	J. Keugel	329,316	Oct. 27	2448	634	33	468
Vehicle-spring	T. J. Magner	322,338	Oct. 13	948	247	33	180
Vehicle-spring	H. W. Moore	314,702	Mar. 31	2241	596	30	1245
Vehicle-spring	E. F. Morse	324,72	Aug. 25	2013	552	32	920
Vehicle-spring	R. Mulholland	315,453	Apr. 7	93	23	31	19
Vehicle-spring	J. D. Owen	331,430	Dec. 1	252	67	33	1043
Vehicle-spring	J. G. Parsons	329,289	June 16	1974	522	31	1424
Vehicle-spring	O. S. Plummer and J. M. Wood	323,009	Oct. 20	1448	377	33	278
Vehicle-spring	J. Priest	314,078	Mar. 31	2645	699	30	1316
Vehicle-spring	P. Quinn	313,520	Mar. 10	671	175	30	910
Vehicle-spring	J. G. Roth	331,215	Nov. 24	2328	646	33	980
Vehicle-spring	J. G. Roth	333,257	Dec. 29	2903	759	33	1543
Vehicle-spring	F. Rupp and D. F. Smith	325,015	Aug. 25	2203	603	32	954
Vehicle-spring	S. G. Smith	315,176	Apr. 7	262	63	31	48
Vehicle-spring	A. Straub	319,243	June 2	498	135	31	1143
Vehicle-spring	E. C. Tecktonius	321,663	July 7	337	80	32	64
Vehicle-spring	J. W. Wetmore	325,431	Aug. 25	2222	610	32	958
Vehicle-spring	F. L. Whartenby	312,778	Feb. 21	1799	495	30	707
Vehicle-spring	J. Wolf	311,669	Dec. 1	639	157	33	1110
Vehicle-spring brace	E. J. Strong	317,040	May 5	142	36	31	548
Vehicle-spring clip	W. Evans	324,000	Aug. 25	2172	594	32	948
Vehicle-spring clip	W. Evans	329,063	Sept. 29	2372	620	32	1478
Vehicle-spring coupling	G. M. Hubbard	320,135	June 16	1588	422	31	1354
Vehicle-spring equalizer	G. S. Hosmer	315,291	Apr. 7	423	108	31	78
Vehicle-spring gear	B. P. Morrison	316,640	Apr. 28	2273	598	31	431
Vehicle-spring, Metallic	J. Graves	317,990	May 19	1427	393	31	802
Vehicle. Spring-propelled	G. B. Berrell	329,003	Oct. 27	1907	519	33	326
Vehicle spring-seat	C. Van Horn	331,100	Nov. 24	2211	599	33	949
Vehicle spring, Two-wheeled	F. Forler	315,928	Apr. 14	1324	344	31	246
Vehicle-step	W. B. Philbert	315,233	Apr. 14	1184	308	31	221
Vehicle-top	E. W. Cannon and E. H. Jones	320,332	June 16	1888	496	31	1405
Vehicle-top	S. M. Chester	321,795	July 7	529	140	32	98
Vehicle-top	K. W. Holmes	332,529	Dec. 15	1871	489	33	1344
Vehicle-top bow	J. M. Perkins	326,585	Sept. 22	1908	475	32	1372
Vehicle. Two-wheeled	A. A. Abbott	324,794	Aug. 25	1901	523	32	899
Vehicle. Two-wheeled	D. A. Adams	317,271	May 5	465	117	31	608
Vehicle. Two-wheeled	J. H. Barker	321,477	July 7	94	25	32	19
Vehicle. Two-wheeled	C. S. Beebe	323,257	July 28	2617	668	32	482
Vehicle. Two-wheeled	F. Bex and E. F. Heunsch	332,777	Dec. 22	2227	587	33	1416
Vehicle. Two-wheeled	T. Boettcher	316,002	Apr. 21	1423	370	31	271
Vehicle. Two-wheeled	J. C. Blocher	329,124	Oct. 27	2178	564	33	417
Vehicle. Two-wheeled	W. C. Bradford	329,132	Oct. 27	2187	567	33	418
Vehicle. Two-wheeled	T. H. Brown	319,060	June 2	156	42	31	1076
Vehicle. Two-wheeled	W. M. Buchanan	311,290	Jan. 27	1523	415	30	300
Vehicle. Two-wheeled	J. P. Calnan	317,925	May 12	1332	358	31	776
Vehicle. Two-wheeled	J. P. Calnan	331,375	Dec. 1	168	43	33	1028
Vehicle. Two-wheeled	L. S. Clark	330,468	Nov. 17	1410	375	33	789
Vehicle. Two-wheeled	H. Eache	324,223	Aug. 25	1943	534	32	906
Vehicle. Two-wheeled	T. N. Gahagen	318,557	May 26	2197	587	31	951
Vehicle. Two-wheeled	J. A. Gallagher	331,957	Dec. 8	1055	274	33	1197
Vehicle. Two-wheeled	E. H. Griswold	330,017	Nov. 10	807	206	33	662
Vehicle. Two-wheeled	P. F. Hellerstedt	311,244	Jan. 27	1449	395	30	287
Vehicle. Two-wheeled	A. Hofmann	331,705	Dec. 1	693	171	33	1120
Vehicle. Two-wheeled	J. T. McIntyre	318,127	May 19	1609	429	31	836
Vehicle. Two-wheeled	T. O'Brien	317,179	May 5	338	85	31	585
Vehicle. Two-wheeled	W. C. Pitzer	317,413	May 5	656	167	31	642
Vehicle. Two-wheeled	H. W. Ransom	326,587	Sept. 22	1810	476	32	1372
Vehicle. Two-wheeled	J. F. Sanders and T. T. Whitcomb	321,140	June 30	2970	797	31	1621
Vehicle. Two-wheeled	W. H. Schmiedlen	326,595	Sept. 22	1824	480	32	1374
Vehicle. Two-wheeled	J. F. Schwartz	318,807	May 26	2521	673	31	1009
Vehicle. Two-wheeled	D. M. Sechler	324,886	Aug. 25	2028	555	33	922
Vehicle. Two-wheeled	D. M. Sechler	324,962	Aug. 25	2128	581	32	942
Vehicle. Two-wheeled	E. G. Seitz	311,922	Feb. 10	616	170	30	471
Vehicle. Two-wheeled	D. P. Sharp	313,379	Mar. 3	478	128	30	865
Vehicle. Two-wheeled	N. W. Shernau	325,172	Sept. 8	754	188	32	1161
Vehicle. Two-wheeled	H. B. Sorter	325,168	Sept. 15	1263	325	32	1202
Vehicle. Two-wheeled	G. G. Sowder	327,733	Oct. 6	305	78	33	53
Vehicle. Two-wheeled	J. G. Stocks	310,621	Jan. 13	550	163	30	119
Vehicle. Two-wheeled	L. St. Ores	327,036	Sept. 29	2461	643	32	1494
Vehicle. Two-wheeled	H. C. Swan	319,037	June 2	126	34	31	1071
Vehicle. Two-wheeled	R. F. Taliaferro and E. P. Mitchell	310,740	Jan. 13	752	205	30	149
Vehicle. Two-wheeled	J. Wesely	310,760	Jan. 13	769	208	30	151
Vehicle. Two-wheeled	O. Willson	312,690	Feb. 24	1677	402	30	685
Vehicle. Two-wheeled	R. G. Wood	317,066	May 5	176	45	31	555
Vehicle-wheel	J. Barbiero	311,280	Jan. 27	1512	412	30	299
Vehicle-wheel	H. J. Barrett	324,072	Aug. 11	900	248	32	697
Vehicle-wheel	R. Bean and A. W. Grant	319,777	June 9	1084	288	31	1256

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & R.	Vol.	Page.
Vehicle-wheel	J. H. Bissell	310,779	Jan. 13	794	215	30	156
Vehicle-wheel	R. S. Carr	319,458	June 9	652	178	31	1179
Vehicle-wheel	J. E. Deweese	314,580	Mar. 24	2007	535	30	1174
Vehicle-wheel	J. Fishwick	333,402	Dec. 29	3089	806	33	1576
Vehicle-wheel	W. Gibby	322,174	July 14	1045	271	32	136
Vehicle-wheel	A. W. Grant	320,930	June 30	2681	714	31	1579
Vehicle-wheel	T. M. Hammond	320,932	June 30	2684	715	31	1581
Vehicle-wheel	W. H. Harding	310,585	Jan. 13	549	151	30	111
Vehicle-wheel	R. F. H. Hövet	313,209	Mar. 3	250	63	30	682
Vehicle-wheel	G. W. Howell	316,365	Apr. 21	1904	503	31	357
Vehicle-wheel	C. W. Long	322,168	July 14	1083	276	32	294
Vehicle-wheel	F. M. Priestley	311,144	Jan. 20	1300	358	30	254
Vehicle-wheel	J. L. Ritter	353,182	Dec. 29	2764	724	33	1528
Vehicle-wheel	J. M. Rosebrooks	328,068	Oct. 13	734	191	33	139
Vehicle-wheel	B. Rushmer and G. A. Joyce	325,278	Sept. 1	66	20	32	1088
Vehicle-wheel	M. Sattley	321,758	July 7	475	1-5	34	88
Vehicle-wheel	J. Taylor	325,024	Aug. 25	2212	607	32	956
Vehicle-wheel	G. T. Warwick	315,004	Apr. 7	146	35	31	28
Vehicle-wheel	H. B. Weinstock	333,027	Dec. 8	1163	304	33	1214
Vehicle-wheel	D. S. Wing	328,555	Oct. 20	1374	358	33	265
Vehicle-wheel	J. L. Yost	312,692	Feb. 24	1679	463	30	685
Vehicle-wheel and axle	E. J. Gray	319,973	June 16	1379	361	31	1315
Vehicle-wheel wedge	H. G. Cady	323,910	Aug. 11	685	192	32	629
Vehicles. Boot for drivers' seats for	M. H. Crane	325,914	Sept. 8	923	223	32	1183
Vehicles or cars. Propulsion of	F. O. Landgrane, M. P. Schetzler, and M. E. Willis.	333,224	Dec. 29	2866	749	33	1536
Vehicles. Power-accumulator for	L. Montgillon	310,907	Jan. 20	955	260	30	191
Vehicles. Umbrella-covering for	C. H. Butlin	311,809	Feb. 3	448	129	30	422
Velocimeter	R. J. McCarty	331,517	Dec. 1	370	99	33	1065
Velocipede	A. J. and F. S. Beavis	318,532	May 26	2148	578	31	945
Velocipede	W. P. Benham	310,776	Jan. 13	792	214	30	156
Velocipede	A. H. Bock	331,113	Nov. 24	2837	608	33	934
Velocipede	C. E. Buell	331,276	Dec. 1	14	4	33	1003
Velocipede	J. W. Burroughs	324,749	Aug. 18	1827	505	32	879
Velocipede	H. L. Chapman	329,362	Oct. 27	2523	650	33	469
Velocipede	W. Clemson	324,536	Aug. 18	1540	435	32	894
Velocipede	J. C. Clime	315,003	Apr. 7	23	6	31	7
Velocipede	D. Crowley	323,640	Aug. 4	341	97	32	555
Velocipede	L. Dickey	319,682	June 9	956	254	31	1224
Velocipede	J. M. Dillon	325,823	Sept. 8	622	205	32	1172
Velocipede	A. Fritz	324,826	Aug. 25	1949	535	32	967
Velocipede	J. Harrington	324,317	Aug. 11	1945	338	32	768
Velocipede	T. F. Hennessy	327,064	Sept. 29	2524	658	32	1585
Velocipede	S. B. Hill	312,634	Feb. 24	1606	441	30	672
Velocipede	W. Hillman	311,390	Jan. 27	1557	426	30	386
Velocipede	T. B. Jeffery	312,473	Feb. 17	13-3	383	30	623
Velocipede	F. Junge	327,952	Oct. 6	577	150	33	104
Velocipede	H. A. King	327,397	Sept. 29	2943	769	32	1579
Velocipede	H. A. King	327,954	Oct. 6	520	151	33	164
Velocipede	J. Knous	322,543	July 21	1527	403	32	284
Velocipede	H. Lacasse	327,978	Oct. 6	614	160	33	111
Velocipede	E. G. Latta	322,733	July 21	1780	470	32	339
Velocipede	E. G. Latta	323,162	July 28	2282	632	32	452
Velocipede	E. G. Latta	323,695	Aug. 4	409	117	32	589
Velocipede	E. G. Latta	324,568	Aug. 18	1574	435	32	631
Velocipede	E. G. Latta	325,944	Sept. 8	952	243	32	1200
Velocipede	E. G. Latta	326,752	Sept. 22	2069	538	32	1416
Velocipede	E. G. Latta	327,399	Sept. 29	2946	769	32	1579
Velocipede	E. G. Latta	328,235	Oct. 13	941	245	33	179
Velocipede	E. G. Latta	328,693	Oct. 20	1565	408	33	689
Velocipede	E. G. Latta	332,092	Dec. 8	1259	327	33	1221
Velocipede	E. G. and A. C. Latta	322,113	July 14	965	251	32	184
Velocipede	E. G. and A. C. Latta	325,420	Sept. 1	273	68	32	1067
Velocipede	C. S. Laddell	320,073	June 16	1508	400	31	1339
Velocipede	C. S. Laddell. (Reissue)	10,673	Dec. 15	2107	558	33	1367
Velocipede	A. W. McClure	331,518	Dec. 1	372	100	33	1065
Velocipede	W. E. Nye	321,910	July 7	625	178	32	124
Velocipede	H. S. Owen	330,346	Nov. 10	1233	309	33	424
Velocipede	H. J. Paucy and C. T. Crowden	316,649	Apr. 23	2229	601	31	630
Velocipede	F. B. Powers	313,234	Mar. 3	295	74	30	596
Velocipede	C. E. Pratt	318,500	May 26	2100	566	31	936
Velocipede	C. E. Pratt and A. E. Wallace	310,540	Jan. 6	485	135	30	99
Velocipede	B. Roper	332,005	Dec. 8	1121	292	33	1208
Velocipede	W. A. Rudling and J. F. Coffin	319,130	June 2	245	64	31	1092
Velocipede	A. Rugally	321,642	July 7	313	83	32	60
Velocipede	H. Schneider	319,329	June 2	480	130	31	1129
Velocipede	C. F. Stillman	324,605	Aug. 18	1630	448	32	841
Velocipede	D. S. Troy	317,893	May 12	1281	345	31	768
Velocipede	J. M. Tryon	329,102	Oct. 27	2143	534	33	416
Velocipede	C. H. and J. I. Veeder	312,407	Feb. 17	1297	358	30	605
Velocipede	R. Von Malkowsky	310,548	Jan. 6	500	138	30	96
Velocipede	A. Vrecland	327,125	Sept. 29	2588	674	32	1516
Velocipede	A. E. Wallace	312,411	Feb. 17	1301	350	30	604
Velocipede	A. E. Wallace	314,633	Mar. 31	2160	574	30	1229
Velocipede	T. Warwick	329,517	Nov. 3	124	32, 33	33	329

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Velocipede	C. Weber	333,268	Dec. 29	2917	763	33	1546
Velocipede	C. L. Work	314,160	Mar. 17	1522	399	30	1070
Velocipede-boats. Wind-guard for	J. Thompson	314,491	Mar. 24	1970	524	30	1168
Velocipede-brace, shaft, &c	D. H. Rice	331,331	Dec. 1	104	24	33	1017
Velocipede-brake	E. P. Howe	330,026	Nov. 10	819	210	33	865
Velocipede-brake. Automatic	E. P. Howe	330,027	Nov. 10	820	210	33	865
Velocipede. Ice	J. Hussong	330,786	Nov. 17	1805	487	33	866
Velocipede. Ice	C. Wünsch	311,862	Feb. 3	518	140	30	445
Velocipede. Marine	S. Curlin	315,743	Apr. 14	1067	280	31	200
Velocipede-motor	A. A. Ugland	319,040	June 2	128	35	31	1071
Velocipede-pedal	C. H. Gates	327,786	Oct. 6	364	95	33	64
Velocipede-pedal	C. F. Hadley	313,323	Mar. 3	412	103	30	852
Velocipede-pedal	A. H. Overman	320,851	Nov. 3	580	148	33	613
Velocipede-pedal	A. E. Wallace	318,149	May 19	1637	437	31	841
Velocipede. Railway	C. H. Copp	312,332	Feb. 17	1197	328	30	586
Velocipede-saddle	F. J. Drake	319,470	June 9	677	182	31	1183
Velocipede-saddle	J. Knous	318,568	May 26	2207	590	31	953
Velocipede-saddle	J. A. Lamplugh	323,093	Aug. 4	406	116 117	32	599
Velocipede-saddle	A. H. Overman	331,001	Nov. 24	2091	565 566	33	926
Velocipede-saddle	C. E. Pratt	312,219	Feb. 10	1039	285	30	549
Velocipede-saddle-spring	W. Hillman	310,823	Jan. 13	848	230	30	166
Velocipede-seat	A. H. Overman	320,850	Nov. 3	578	148	33	613
Velocipede-seat spring	R. E. Humphreys	332,658	Dec. 15	2057	540	33	1378
Velocipede-spring clip	J. Knous	311,128	Jan. 27	1362	374	30	272
Velocipede-treadle-motion	G. H. Griffiths	314,013	Mar. 17	1332	347	30	1042
Velocipede-wheel	A. M. White	310,857	Jan. 13	888	240	30	173
Velocipede-wheel	A. M. White	317,056	May 12	1376	370	31	785
Velocipede-wheel rim	R. Heeley	315,026	Apr. 7	52	12	31	19
Velocipedes. Ball-bearing for	O. Philfeldt	327,408	Sept. 29	2257	772	32	1581
Veneer. Applying wood	A. and C. De Burbon d'Este Paleologus Gonzaga.	331,232	Nov. 24	2408		33	984
Veneer ornamental work. Open-	F. Koskul	311,014	Jan. 20	1114	304	30	220
Veneering	C. W. Spurr	329,499	Nov. 3	100	26	33	524
Vent	G. W. Gillette	327,674	Oct. 6	239	58	33	42
Vent	H. Metzger	319,007	June 2	94	25	31	1065
Vent for beer-kegs. Safety-	N. Olson	316,644	Apr. 28	2280	600	31	433
Ventilating apparatus. Atomizer for	E. Oehlmann	330,919	Nov. 24	1924	536 537	33	906
Ventilating apparatus for rocking-chairs	J. Fernie	322,705	July 21	1746	461	32	334
Ventilating apparatus. Portable	R. E. Walsh	330,177	Nov. 10	1018	266	33	707
Ventilating attachment	B. J. Goldsmith	325,243	Sept. 1	14	5	32	1012
Ventilating buildings	I. J. Ordway	326,035	Sept. 8	1108	283	32	1227
Ventilating-cap	J. A. Hughes and C. S. Mengel	322,377	July 14	1301	339	32	247
Ventilating-louver	G. Hayes	313,865	Mar. 17	1132	294 295 222 223	30	1004
Ventilating mines. Apparatus for	M. L. D. Weston	315,578	Apr. 14	847	222 223	31	157
Ventilating sewers	G. Hargreaves	321,719	July 7	412	110	32	77
Ventilating sewers	J. S. Wilson and W. W. Green	328,164	Oct. 13	861	224	33	163
Ventilating the hull of a navigable vessel	E. E. Ferrin	313,066	Mar. 3	40	10	30	785
Ventilation. House-	L. Merriman	323,567	Aug. 4	265	78	32	571
Ventilation. System of	T. J. Simpson	328,212	Oct. 20	1716	447	33	329
Ventilator:							
See Decr-ventilator.	Gas-main ventilator.						
Boot and shoe ven-	Grain-bin ventilator.						
tilator.	Hat-ventilator.						
Box-ventilator.	Mine-ventilator.						
Car-ventilator.	Stove-pipe ventilator.						
Churn-ventilator.	Water-closet ventilator.						
Filter-ventilator.	Window-ventilator.						
Ventilator	J. M. Ayer	312,177	Feb. 10	984	268 269	30	538
Ventilator	A. Daub	332,059	Dec. 8	1205	314	33	1222
Ventilator	V. Dorneck	323,300	July 28	2592	688	32	494
Ventilator	C. E. Grannis	313,492	Mar. 10	631	164	30	903
Ventilator	R. E. Hennings	320,251	June 16	1744	464	31	1381
Ventilator	F. Koller	318,912	May 26	2659	704	31	1035
Ventilator	C. B. Loveless	315,522	Apr. 14	758	201	31	141
Ventilator	C. B. Loveless	319,590	June 9	850	226	31	1213
Ventilator	A. Olsen	318,494	May 26	2087	564	31	934
Ventilator	W. H. Payne	324,271	Aug. 11	1183	321	32	750
Ventilator	L. Schanck	312,903	Feb. 24	1961	536	30	735
Ventilator	W. Scharnweber	327,414	Sept. 29	2965	774	32	1522
Ventilator	W. Scharnweber	329,680	Nov. 3	343	87, 88	31	570
Ventilator	A. S. Seaman	314,822	Mar. 31	2508	665	30	1294
Ventilator	T. J. Simpson	327,350	Sept. 29	2245	742	32	1563
Ventilator	F. H. Smith	327,603	Oct. 6	141	34	33	26
Ventilator for cooking and other apartments	D. Burgess	322,379	Dec. 15	1662	435	33	1309
Ventilator wheel or fan	E. F. Kittoe	320,052	Oct. 27	2073	538	33	398
Vermin-trap	E. J. Jarvis	314,133	Mar. 17	1494	390	30	1071
Vertical boiler	W. E. Haxtun	320,024	Nov. 10	817	200	33	664
Vertical drill	E. Smedley	313,114	Mar. 3	99	25	30	795
Vertical tube-boiler	P. Holtzmann and R. Mayer	333,012	Dec. 22	2553	672	33	1475
Vessel for transporting liquid cargoes in bulk	L. V. Sone	326,344	Sept. 15	1511	697	31	1029
Vessel-holder	J. P. Eustis	318,887	May 26	2626	694	31	1029
Vessel. Navigable	R. B. Condon	314,435	Mar. 24	1888	504	30	1155
Vessel. Screw-propelled	C. W. Field, Jr.	332,243	Dec. 15	1475	385	33	1275
Vessels and cars, &c. Apparatus for discharging contents of	A. E. Brown	314,424	Mar. 24	1869	498	30	1152
Vessels. Attaching tops to	D. W. Norris	311,777	Feb. 3	411	111	30	425
Vessels. Coating or lining	L. L. Maxfield	332,160	Dec. 8	1361		33	1249
Vessels. Construction of	A. Belus	321,569	July 7	223	59	32	44

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Vessels, &c. Construction of the hulls of	G. H. Pond	321,450	July 7	57	16.17	32	13
Vessels. Decreasing the frictional resistance to	F. D. Owen	312,500	Feb. 17	1439	395	36	631
Vessels. Device for keeping ice off the sterns of	G. S. King	338,229	Oct. 13	935	243	33	177
Vessels. Elastic joint for the planking of	C. E. Mark	311,583	Feb. 3	181	52	30	329
Vessels. Floating sunken	A. Amiro	317,274	May 5	467	117	31	609
Vessels. Leak-stopper for	J. B. Corey	312,613	Feb. 24	1590	432	30	667
Vessels. Mechanism relating to chain-stoppers and windlasses of navigable	J. J. Emery	311,573	Feb. 3	133	44	30	377
Vest and overshirt. Combined lapel	A. W. Mensor	310,803	Apr. 28	2522	659	31	476
Vest-pattern	E. Shively and M. E. Clark	330,162	Nov. 10	999	360	33	763
Vest-protector	T. S. Beals	321,177	June 30	3017	799	31	1630
Veterinary surgical instrument	S. Cochrane	319,454	June 9	655	176	31	1179
Vibrating piston engine	W. E. Crist	316,006	Apr. 28	2232	588	31	424
Vibrations of forks, reeds, &c. Actuating and correcting the	P. B. Delany	322,809	July 21	1874	497	32	357
Vibrations of forks, reeds, &c. Regulating the	P. B. Delany	322,694	July 21	1733	452	32	332
Vibrations of reeds. Actuating and correcting the	P. B. Delany	322,696	July 21	1735	458	32	332
Vibrations of reeds and forks. Mechanically correcting the	P. B. Delany	322,695	July 21	1734	458	32	332
Vinegar generator	H. P. McMaster	323,056	July 28	2248	594	32	431
Violin	I. Hall	322,925	July 28	2054	543	32	397
Violin	J. Prenzel	316,058	Apr. 28	2299	603	31	436
Violin	M. W. White	323,765	Aug. 4	502	141	32	617
Violin attachment	I. J. Hart	322,098	July 14	944	244	32	180
Violin-bow	G. H. Franklin and H. G. Barr	320,123	June 16	1584	418	31	1362
Violin-bow	R. N. Gilmore	323,139	July 28	2354	624	32	433
Violin-bow guide	A. Martel	316,157	Apr. 21	1640	429	31	311
Violin-bridge	M. W. White	330,276	Nov. 10	1138	302	33	730
Violin. Piano	T. Oleson	314,540	Mar. 24	2032	542	30	1179
Violin-string holder	J. D. Loppentien	323,513	Aug. 4	171	50	31	354
Violin tail piece	E. J. Albert	330,185	Nov. 10	1099	269	33	709
Violas. Rosin-holder for	J. W. Angus	331,751	Dec. 8	766	193	33	1143
Vise	H. D. Booth	332,478	Dec. 15	1790	470	33	1331
Vise	G. A. Colton	320,224	June 16	1710	455	31	1375
Vise	O. Flagstad	322,655	Aug. 4	361	103	32	589
Vise	T. G. Hall	311,487	Feb. 3	36	10	30	336
Vise	P. Minet	321,995	July 14	805	210	33	155
Vise	V. M. Moore	326,137	Sept. 15	1218	311	32	1254
Vise	V. M. Moore	326,138	Sept. 15	1219	311	32	1254
Vise	W. H. Northall	311,905	Dec. 8	978	253	33	1181
Vise	S. O. Parker	319,743	June 9	1042	276	31	1249
Vise	J. B. Wilder	324,907	Aug. 25	2059	563	33	828
Vise. Bench	W. Mickel	310,639	Jan. 13	865	234	30	169
Vise. Bench	W. H. Northall	332,200	Dec. 8	1424	367	33	1260
Vise. Engraver's	H. Schmidt	314,610	Mar. 31	2122	566	30	1223
Vise-jaw. Adjustable	E. Shaw	333,261	Dec. 29	2207	760	33	1544
Vise. Pipe	J. C. Bauer	328,102	Oct. 13	778	207	33	147
Vise. Pipe	H. Meadows	329,406	Oct. 27	2591	668	33	492
Vise. Pipe	J. S. Woolsey	330,538	Nov. 17	1493	399	33	805
Vise. Saw	H. Flater	311,241	Jan. 27	1445	394	30	286
Vise. Wood-worker's bench	A. J. Tyler	331,745	Dec. 1	751	190	33	1131
Volatilizer	G. W. and C. A. Gelsenhainer	317,760	May 12	1110	282	31	734
Voltaic batteries. Amalgamating zinc plates or bars for	F. H. Hubbard	317,538	May 12	825	212	31	631
Voltaic batteries. Amalgamating zinc plates or bars for	W. S. Platt	313,615	Mar. 10	789	207	30	933
Voltaic batteries. Liquid for	A. F. W. Partz	328,607	Oct. 20	1447	33	278	
Voltaic battery	D. G. Fitz Gerald and T. J. Jones	333,292	Dec. 29	2251	33	1552	
Vulcanizable compound or crude kerite	A. G. Day	322,805	July 21	1869	33	356	
Vulcanized-fiber roller or wheel, &c.	F. Taylor	316,247	Apr. 28	2580	677	31	428
Vulcanizer	F. H. Childester	315,241	Apr. 7	367	90	31	66
Vulcanizing rubber and for other purposes. Apparatus for	H. C. Miller	332,408	Dec. 15	1700	445	33	1315
Wagon	J. C. Huggins	313,335	Mar. 3	423	106	30	854
Wagon	S. E. Orvick	331,254	Nov. 24	2445	661	33	990
Wagon	C. Roberts	327,316	Sept. 29	2830	738	32	1560
Wagon and carriage brake. Automatic	S. Kennedy	326,658	Sept. 22	1913	502	32	1329
Wagon-bed lifter	W. H. Thomas	312,038	Feb. 10	782	213	30	401
Wagon-bodies. Device for removing	G. W. Hodge and L. J. A. Roswall	328,403	Oct. 13	1176	304	33	222
Wagon-bodies. Device for removing	J. B. Taylor	330,752	Nov. 17	1767	476	33	858
Wagon-bodies. Device for removing	P. M. and W. T. Thurman	316,851	Apr. 28	2506	678	31	460
Wagon-body	A. D. Gingerick	326,970	Sept. 29	2381	623	32	1440
Wagon-body	W. H. Jenkins	324,558	Aug. 18	1562	431	32	829
Wagon-body	J. B. Law and C. Mooney	332,912	Dec. 22	2409	637	33	1449
Wagon-body	W. H. Teets	323,973	Aug. 11	765	214	33	871
Wagon-body corner-iron	E. Hentelinson	310,517	Jan. 6	448	124	30	871
Wagon-bolster spring	T. S. King and C. E. Stivers	314,139	Mar. 17	1499	391	30	1072
Wagon bottom. Dumping	G. W. Richardson	321,533	July 7	177	47	32	35
Wagon-box	J. Dick	318,703	May 26	2374	633	31	985
Wagon-box	J. F. Ruhl	310,915	Apr. 28	2693	701	31	562
Wagon-box brace	P. Andersen	323,532	Aug. 4	225	66	32	563
Wagon-box coupling	D. M. Jones	321,367	June 30	3255	869	31	1675
Wagon-box fastener	J. A. Jones	322,184	July 14	1039	274	32	201
Wagon brake	E. M. Allen	322,340	July 14	1314	326	32	277
Wagon-brake	A. K. Barmore	325,038	Aug. 25	2233	612	32	940
Wagon-brake	C. Behringer	321,178	June 30	3019	799	31	1630
Wagon-brake	B. Bosch	310,174	Jan. 6	19	5	30	6
Wagon-brake	G. P. Card	322,788	July 21	1849	491	32	353
Wagon-brake	M. Cartmell and N. Bayless	324,081	Aug. 11	911	252	32	700
Wagon-brake	M. Conrad	327,921	Oct. 6	538	140	33	96
Wagon-brake	H. M. and J. M. Crippen	332,789	Dec. 22	2239	590	33	1412
Wagon-brake	G. Dillig	318,550	May 26	2188	585	31	950
Wagon-brake	A. M. Garman	321,769	July 7	401	107	32	75
Wagon-brake	O. O. Honeywell	333,221	Dec. 29	2248	745	32	1538

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Wagon-brake	R. E. McClelland	313,083	Mar. 3	71	19	30	790
Wagon-brake	J. Meyer and H. Bler	317,831	May 12	1213	321	31	753
Wagon-brake	F. R. Smith	319,141	June 2	253	67	31	1094
Wagon-brake	W. S. Smith	313,115	Mar. 3	150	26	30	795
Wagon-brake	F. Stalder	324,045	Aug. 11	869	239	32	691
Wagon-brake	F. M. Swann and W. W. Adkins	332,671	Dec. 15	2091	549	33	1383
Wagon-brake. Automatic	D. Oltmanns	321,521	Aug. 4	182	53	32	556
Wagon-brake. Hay	O. C. Walker and L. B. Altaffer	322,023	July 14	849	221	32	162
Wagon-brake lever	G. P. Riester	321,315	June 30	3183	849	31	1661
Wagon. Buckboard	F. B. and L. E. Bessette	318,534	May 26	2150	579	31	945
Wagon. Buckboard	D. Brown and J. D. Bradley	333,053	Dec. 22	2600	622	33	1424
Wagon. Buckboard	D. Stebbins	317,035	May 5	135	34	31	547
Wagon circle-iron	N. L. Holmes	323,934	Aug. 11	714	200	32	665
Wagon circle-post	N. L. Holmes	311,000	Jan. 20	1094	299	30	216
Wagon-clip	C. A. Gale	321,707	July 7	399	106	32	75
Wagon. Draft	G. S. and W. B. Morgan	315,531	Apr. 17	780	205	31	145
Wagon. Dumping	J. N. Archambault	333,048	Dec. 22	2600	681	33	1483
Wagon. Dumping	J. Cameron	329,714	Nov. 3	389	99	33	579
Wagon. Dumping	A. Kohlrieser	338,790	Oct. 20	1681	438	33	322
Wagon. Dumping	W. and J. H. Leonhardt	319,497	June 9	718	193	31	1190
Wagon. Dumping	J. McFarland	332,414	Dec. 15	1709	448	33	1316
Wagon. Dumping	J. S. McMurtry	319,739	June 9	1037	275	31	1248
Wagon. Dumping	A. S. Miller	338,504	Oct. 20	1301	338	33	253
Wagon. Dumping	F. C. Milliken	332,818	Dec. 22	2270	599	33	1424
Wagon. Dumping	J. J. Murphy	314,868	Mar. 31	2490	660	30	1291
Wagon. Dumping	H. Nolen	325,185	Aug. 25	2420	665	32	995
Wagon. Dumping	H. L. Raff	317,576	May 12	873	294	31	689
Wagon. Dumping	G. W. Reed	312,295	Feb. 17	1153	315	30	578
Wagon. Dumping	L. Rodenhansen	332,109	Dec. 8	1284	334	33	1236
Wagon. Dumping	T. S. Stewart	315,968	Apr. 14	1380	357	31	235
Wagon. Dumping	W. P. Sumner	313,125	Mar. 3	114	28	30	797
Wagon. Dumping	F. T. Tarbox	313,126	Mar. 3	115	28	30	798
Wagon. Dumping	C. M. Titus	329,346	Oct. 27	2498	644	33	476
Wagon. Farm	M. Spaulding	325,455	Sept. 1	334	72	32	1077
Wagon-frame for moving tobacco	L. N. Cash	322,039	July 14	885	225	32	165
Wagon-gear	E. E. Hatheway	327,505	Sept. 29	2765	718	32	1548
Wagon-gear	N. L. Holmes	339,118	Nov. 10	943	246	33	692
Wagon-gearing	H. Seeman	325,809	Sept. 8	875	220	32	1184
Wagon grain-rack	M. M. Bledsoe	316,441	Apr. 28	2033	532	31	326
Wagon-jack	H. G. Cady	329,969	Nov. 10	782	201	33	658
Wagon-jack	J. F. Eastman	324,543	Aug. 18	1546	427	32	825
Wagon-jack	J. L. Gray	321,810	July 7	546	144	32	102
Wagon-jack	F. Kellogg	321,115	June 30	2941	780	31	1615
Wagon-jack	A. Moto and J. B. Brewster	312,747	Feb. 24	1759	484	30	699
Wagon-jack	J. T. Reed	317,577	May 12	874	224	31	690
Wagon-jack	W. I. Schryver	329,089	Oct. 27	2127	551	33	408
Wagon-jack	D. S. Wamemaker	331,103	Nov. 24	2214	600	33	950
Wagon-jack and step-ladder combined	F. N. McKean	328,701	Oct. 20	1578	411	33	302
Wagon loading and unloading device	A. M. Woolfolk	322,681	July 21	1986	526	32	377
Wagon loading machine	A. L. Slawson	311,936	Feb. 10	623	172	30	472
Wagon log-carrying attachment	J. J. Monroe	318,281	May 19	1803	482	31	872
Wagon. Lumber	W. and J. H. Leonhardt	328,793	Oct. 20	1687	439	33	323
Wagon-rack	C. Cotton	318,959	June 2	39	10	31	1056
Wagon-rack	H. Geiger	318,100	May 19	1571	421	31	828
Wagon-rack	W. A. Moore	313,753	Mar. 10	975	251	30	967
Wagon-reach	M. Keech and J. Laberdee	332,084	Dec. 8	1246	325	33	1229
Wagon-reach coupling	H. Mitchell	328,242	Oct. 13	862	248	33	181
Wagon. Road	J. Vaughan	333,364	Dec. 29	3042	794	33	1568
Wagon running-gear	W. C. Boyle	322,246	July 14	1131	295	32	215
Wagon running-gear	J. Copple	317,515	May 12	800	205	31	676
Wagon running-gear	H. M. Horne	331,137	Nov. 24	2270	616	33	959
Wagon running-gear	L. D. Hurd	318,906	May 26	2650	702	31	1033
Wagon running-gear	L. D. Hurd	321,503	July 7	124	33	32	25
Wagon. Salvage-corps	C. T. Holloway	316,971	May 5	53	14	31	532
Wagon scoop-board	A. J. Sweney	315,678	Apr. 14	970	254	31	182
Wagon-seat	J. T. Dongino	310,692	Jan. 13	819	222	30	160
Wagon-seat	O. S. Miner	328,505	Oct. 20	1302	338	33	253
Wagon-seat	C. Zimmerman	314,410	Mar. 24	1851	493	30	1148
Wagon-seat lock	J. Blakeslee	328,178	Oct. 13	875	227	33	166
Wagon-spring	T. R. La Due	324,263	Aug. 11	1171	318	32	748
Wagon-spring	N. A. Newton	325,355	Sept. 1	163	44	32	1045
Wagon. Spring	H. C. Swan	324,342	Aug. 11	1282	347	32	769
Wagon spring-seat	C. Van Horn	331,101	Nov. 24	2219	599	33	949
Wagon-stake	F. Lang	323,512	Aug. 4	171	50	32	554
Wagon-stake. Detachable	R. D. Shutt	311,206	Jan. 27	1391	380	30	276
Wagon-stake holder	H. Johnson	317,138	May 5	979	71	31	574
Wagon-standard	J. M. Roberts and B. W. Case	324,958	Aug. 25	2124	580	32	941
Wagon-standard	J. Starnes	327,604	Aug. 4	321	84	32	576
Wagon-standard	B. W. Tuttle	327,504	Sept. 29	3070	800	32	1601
Wagon-step	E. Bodman	326,096	Sept. 15	1167	288	32	1245
Wagon-top	H. W. Blood	314,098	Mar. 17	1441	377	30	1062
Wagon. Trade	M. Esten	325,696	Sept. 1	505	126	32	1111
Wagon. Weighing delivery	S. Park	322,138	Oct. 13	818	214	33	155
Wagon-wheel	J. W. Welser	325,137	Aug. 25	2354	649	32	983
Wagons. Adjustable elevator-support for derrick	J. Carlton	319,066	June 2	163	44	31	1077
Wagons. Device for loading live stock on	T. Allen	319,164	June 2	281	74	31	1099
Waist	C. M. A. Barry	318,681	May 26	2346	626	31	979
Waistcoat	P. Baker	316,220	Apr. 21	1713	450	31	324
Waist-lining	J. Reinhardt	325,097	Sept. 8	637	162	32	1140

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Wall and ceiling of buildings	L. A. Mitchell	318,196	May 19	1695	454	31	882
Wall-bracket	C. H. Smith	325,456	Sept. 1	394	78	39	1077
Wall-coping. Manufacture of	J. Francy	313,583	Mar. 10	743	198	30	925
Wall-covering	G. Jordan	325,090	Aug. 25	2298	632	32	973
Wall-covering, leather-cloth, &c. Manufacture of ornamental	S. Loewenthal	327,286	Sept. 29	2791		32	1553
Wall-decorating material	O. E. Vail	316,063	Apr. 21	1532		31	920
Wall-decoration. Fabric for	J. Klec	324,941	Aug. 25	2098	574	32	936
Wall decorations. Fabric for	W. Nielson	329,764	Nov. 3	456	115	33	591
Wall decorations, &c. Plastic compound for	W. Nielson	332,162	Dec. 8	1363		33	1249
Wall for the support of arches and bricks for the construction of the same	E. Terrell and W. H. Fish	318,324	May 19	1869	501 502	31	984
Wall-hangings, &c. Decorating	W. Sochelsky	320,409	June 16	2013		31	1429
Wall of buildings and other structures	W. H. Orr	312,375	Feb. 17	12-6	346	30	597
Wall-paper	A. Collins	322,054	Dec. 8	1199		33	1221
Wall-paper	W. Wilson	326,190	Sept. 15	1297		32	1268
Wall-paper, &c. Apparatus for flocking	G. K. Birge	318,944	June 2	9	3	31	1670
Wall-paper-cutting machine	J. C. Van Horn	312,043	Feb. 10	787	215	30	262
Wall-paper. Decorating	F. Beck	322,034	July 14	859		32	164
Wall-paper. Device for hanging	A. and E. B. Wilcox	323,991	Aug. 11	787	219	32	678
Wall-paper. Hanging-up and carrying-off machine for	J. Waldron	322,671	July 21	1970	521 522	32	374
Wall-paper, &c. Manufacture of	S. E. Trout	322,507	July 21	1492		32	287
Wall-paper-manufacturers' use. Hanging-up and carrying-off machine for	J. Waldron	322,765	July 21	1820	481	32	347
Wall-paper rack	D. Gardiner	318,461	May 26	2048	533	31	926
Wall-paper-trimming device	J. T. French	318,556	May 26	2195	586	31	951
Wall. Partition	W. Griceaser	319,576	June 9	622	217	31	1209
Walls and ceilings. Decorating	M. Gibson	328,459	Dec. 29	3167	827	33	1528
Walls and ceilings of buildings. Material for the decoration of the interior	J. M. Baker	331,409	Dec. 1	309	83	33	1033
Walls and for other purposes. Manufacture of material for covering and decorating	J. A. Turner	334,343	Aug. 11	1283		32	769
Walls. Constructing hollow brick	H. Harwood	312,464	Feb. 17	1376	380	30	620
Walls. Deafening or filling for	L. E. Clawson	311,567	Feb. 3	147	42	30	376
Walls. Mold for building concrete	T. W. Carrioo	331,114	Nov. 24	2239	609	33	954
Walls of buildings. Preventing salt-peter exudations from forming on the faces of	J. C. Anderson	332,560	Dec. 15	1949	510	33	1257
Wardrobe	E. B. Estes	330,930	Nov. 17	1860	592	33	876
Wardrobe	G. A. Garrison	315,760	Apr. 14	1094	287	31	265
Wardrobe and bedstead. Combined	R. M. Hnston	322,938	July 28	2073	558	32	400
Wardrobe and book-case. Portable	F. C. Arbens	325,644	Sept. 8	573	145	34	1129
Wardrobe and chiffonier. Folding	H. L. Mehrer	310,703	Jan. 13	700	191	30	133
Wardrobe and trunk. Combined	C. Leupert	323,228	Dec. 29	2871	750 751	33	1537
Wardrobe. Folding and portable	M. F. Dunn	329,445	Nov. 3	23	7	33	509
Wardrobe or clothes-press. Folding	J. B. Atkinson	322,898	July 28	2005	529	32	387
Wardrobe. Portable folding	A. J. Holmes	318,232	May 19	1765	472	31	696
Warp-sizing machine	A. P. Dickinson	320,466	June 23	2003	531	31	1452
Warp-slasher	S. R. Campbell	310,790	Jan. 13	895	218	30	136
Warping and beaming machine	H. F. Straw and J. D. Butler	325,234	Sept. 1	74	22	32	1030
Warping-chock	H. L. March	316,907	May 5	93	24	31	539
Warping-machine	J. Ryle	317,472	May 5	739	187	31	637
Warping-machine	O. Sheehan	322,014	July 14	699	216 217	32	150
Warping-machines. Adjustable reed for	H. F. Straw	322,401	July 14	1331	346	32	223
Warping-machines. Expansion drop-wire for	T. C. Entwistle	333,118	Dec. 29	2707	710	33	1506
Wash and bath tub. Combined	J. B. French	317,333	May 5	556	141	31	624
Wash-bench	J. B. Goudry and W. S. McLeod	316,891	Apr. 28	2646	690	31	499
Wash-bench and wringer. Combined	J. Dennis	317,100	May 5	222	56	31	564
Wash-bench. Folding	F. Hanson	324,320	Aug. 11	1251	340	32	763
Wash-board	E. Bailey	328,175	Oct. 13	879	226	33	165
Wash-board	H. C. Carter	313,653	Mar. 10	841	218	30	943
Wash-board	H. C. Carter	326,400	Sept. 15	1579	410	32	1391
Wash-board	P. T. Gates	326,554	Sept. 22	1767	463	32	1365
Wash-board	I. Hussey	330,785	Nov. 17	1805	466	33	865
Wash-board	M. Jincks	327,881	Oct. 6	480	125	33	65
Wash-board	P. Pfeiffer	327,823	Oct. 6	417	108	33	73
Wash-board	J. T. Sargent	327,600	Oct. 6	123	30, 31	33	24
Wash-board	J. T. Sargent	327,601	Oct. 6	130	31	33	25
Wash-board guard	F. Marschner	323,316	Dec. 29	2024	721	33	1522
Wash-board holder	H. M. Wines	327,747	Oct. 6	318	19	33	56
Wash-board protector	C. H. Williams	327,634	Oct. 6	192	45	33	33
Wash-boiler	M. F. D. C. Dannmeyer	329,628	Nov. 3	573	79	33	556
Wash-boiler	B. J. Gagnier	311,070	Jan. 20	1193	328	30	225
Wash-boiler	M. R. Walpole	311,695	Feb. 3	307	84	30	407
Wash-boiler	H. T. Wilson	327,214	Sept. 20	2701	702	32	1522
Wash-s and and bureau. Combined	J. M. Stryker, Jr	323,970	Aug. 11	762	213	32	674
Wash-s and and dressing-case. Combined	H. Rose	315,343	Apr. 7	492	124	31	90
Wash-stand. Stationary	C. Morfit	323,437	Aug. 4	68	19	32	533
Wash-tub	G. W. Crouse	326,480	Sept. 15	1671	436	32	1338
Wash-pave	J. G. Bryan	331,032	Nov. 24	2123	575	33	933
Washer							
See Bottle-washer.	Nut-locking washer.						
Bottle and can washer.	Ore-washer.						
washer.	Spring-washer.						
Clothes-washer.	Steam-washer.						
Dish-washer.	Top-prop washer.						
Leather washer.	Vegetable washer.						
Washer and linchpin. Combined	J. F. Gilliland	320,058	June 16	1491	393	31	1336
Washer and linchpin. Combined	J. F. Gilliland	320,059	June 16	1492	394	31	1337
Washer and linchpin. Combined	J. Lovett	333,078	Dec. 29	2639	601	33	1480
Washer-cutter	H. E. Koepka	310,527	Jan. 6	459	126	30	89
Washer-making machine	M. M. Zellera and J. B. Miller	320,320	June 16	1674	492	31	1483

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Washers. Machine for cutting	M. V. Doyle	323,960	Aug. 4	614	173	32	639
Washers. Machine for finishing	G. W. Griffin	324,669	Aug. 18	1744	480	32	862
Washers. Making tapering	M. V. B. Ethridge	331,045	Nov. 24	2137	579	33	936
Washing and dyeing. Apparatus for	J. Worrall	323,095	July 28	2302	608	32	441
Washing and wringing machine. Combined	B. H. Sanborn	319,325	June 2	475	128	31	1138
Washing, bleaching, and dyeing fabrics. Apparatus for	J. Farmer and A. Lalancé	318,838	May 26	2627	697	31	1029
Washing-liquid.	L. Kuhlmann	316,154	Apr. 21	1636	.....	31	310
Washing-machine	E. W. Allen	315,212	Apr. 7	334	81	31	60
Washing-machine	B. A. Allison	331,602	Dec. 1	537	131	33	1092
Washing-machine	W. Arnold	333,050	Dec. 23	2903	692	33	1484
Washing-machine	J. O. Austin	325,306	Sept. 1	104	29	32	1034
Washing-machine	M. Baer	326,378	Sept. 15	1553	403	32	1316
Washing-machine	J. Ballard	315,218	Apr. 7	340	83	31	61
Washing-machine	A. Barbeau	327,968	Oct. 13	627	165	33	190
Washing-machine	H. C. Barnard	327,059	Sept. 29	2492	650	32	1500
Washing-machine	O. W. Barnard	317,486	May 19	763	194	31	670
Washing-machine	D. L. Bates	331,675	Dec. 1	650	160	33	1112
Washing-machine	J. S. Beazell	321,782	July 7	506	134	32	95
Washing-machine	L. Becker	325,312	Sept. 1	111	39	32	1036
Washing-machine	F. Beliel	326,708	Sept. 22	1984	521	32	1403
Washing-machine	W. Birth	323,260	July 28	2519	669	32	483
Washing-machine	F. B. Black	314,726	Mar. 31	2383	630	30	1271
Washing-machine	F. B. Black	323,273	July 28	2539	675	32	486
Washing-machine	J. B. Blakemore and W. A. Roberts	314,163	Mar. 17	1526	400	30	1077
Washing-machine	H. T. Boydston	314,313	Mar. 24	1726	459	30	1194
Washing-machine	D. L. Burgess and J. F. Broxton	330,292	Nov. 10	1162	309	33	735
Washing-machine	G. Burkhardt	318,413	May 19	1987	534	31	905
Washing-machine	W. J. Burns	328,001	Oct. 13	642	170	33	123
Washing-machine	H. Calkins and S. H. Bunten	328,285	Oct. 13	1009	261	33	190
Washing-machine	M. Carroll	324,811	Aug. 25	1928	530	32	904
Washing-machine	L. Cline	318,234	May 19	1748	467	31	868
Washing-machine	J. D. Cohee and G. R. Gamble	327,528	Oct. 6	33	7	33	8
Washing-machine	S. Converse	325,913	Sept. 8	922	232	32	1193
Washing-machine	P. J. Courtenay	314,318	Mar. 24	1731	461	30	1125
Washing-machine	J. C. Crum	327,922	Oct. 6	539	141	33	96
Washing-machine	J. Donald	312,962	Feb. 24	2061	563	30	753
Washing-machine	J. K. Dugdale	328,471	Oct. 20	1301	328	33	245
Washing-machine	G. Dunwoody	318,709	May 26	2380	635	31	966
Washing-machine	L. K. Dutton	313,407	Mar. 3	514	135	30	872
Washing-machine	A. F. Ekman	321,699	July 7	388	103	32	72
Washing-machine	M. N. Enaley	328,663	Oct. 20	1532	398	33	293
Washing-machine	G. A. Eppel	321,340	June 30	3228	860	31	1670
Washing-machine	H. Falkenthal	323,133	July 28	2347	623	32	451
Washing-machine	G. L. Ferris	330,573	Nov. 17	1535	411	33	813
Washing-machine	S. Garrett	329,157	Oct. 27	2222	575	33	425
Washing-machine	Z. M. Gellins	314,372	Mar. 24	1805	480	30	1139
Washing-machine	J. Gillespie	313,318	Mar. 3	406	101	30	851
Washing-machine	E. Goodwin	326,903	Sept. 22	2229	599	32	1455
Washing-machine	M. L. Grover	327,159	Sept. 29	2633	685	32	1523
Washing-machine	A. J. and M. C. Guffin	310,507	Jan. 6	438	121	30	85
Washing-machine	G. F. Hall and G. M. Lane	331,633	Dec. 1	593	146	33	1101
Washing-machine	J. O. Hardwick	325,076	Aug. 25	2278	626	32	969
Washing-machine	G. Hargreaves	322,710	July 21	1751	462	32	335
Washing-machine	G. C. Harlin	330,323	Nov. 10	1900	320	33	743
Washing-machine	H. Hasenpflug	328,938	Oct. 27	1896	495	33	367
Washing-machine	H. T. Henderson	327,680	Oct. 6	244	60	33	43
Washing-machine	A. A. Hinde	326,501	Sept. 15	1698	443	32	1343
Washing-machine	J. Howell	321,299	June 30	3165	844	31	1658
Washing-machine	W. B. Huber	323,336	July 28	2640	703	32	503
Washing-machine	J. K. Hunt	313,498	Mar. 10	638	166	30	904
Washing-machine	A. T. Jackson	321,031	June 30	2228	752	31	1596
Washing-machine	J. S. Jones	328,891	Oct. 20	1815	473	33	346
Washing-machine	H. D. King	315,300	Apr. 7	438	110	31	79
Washing-machine	W. W. Kone	330,840	Nov. 17	1876	507	33	878
Washing-machine	G. G. Koschel	332,662	Dec. 15	2061	541	33	1378
Washing-machine	D. Kunkel, Sr.	319,549	June 9	849	225	31	1213
Washing-machine	P. Lawson	321,110	June 30	2947	781	31	1616
Washing-machine	G. W. Leach and J. H. Smith	316,795	Apr. 28	2513	656	31	475
Washing-machine	J. T. Leger	314,455	Mar. 24	1909	510	30	1159
Washing-machine	M. Lockhart	311,133	Jan. 20	1285	353	30	251
Washing-machine	J. A. Loomis	329,577	Nov. 3	212	55	33	545
Washing-machine	R. Lynn, Sr.	336,913	S. pt. 22	2300	602	32	1457
Washing-machine	S. Martin	329,183	Oct. 27	2255	585	33	431
Washing-machine	B. A. Mauring and R. E. Gibbons	323,820	Aug. 4	561	166	32	629
Washing-machine	F. McKimmy	310,698	Jan. 13	691	189	30	137
Washing-machine	S. P. Mear	327,003	Sept. 29	2419	632	32	1487
Washing-machine	A. J. Mercer	322,840	July 21	1929	510	32	307
Washing-machine	J. E. Mitchell	315,812	Apr. 14	1158	303	31	217
Washing-machine	S. C. Mortimer	329,760	Nov. 3	452	114	33	590
Washing-machine	T. G. Newnam	328,801	Oct. 20	1696	442	33	325
Washing-machine	R. Orford	330,848	Nov. 17	1887	510	33	880
Washing-machine	L. Peterson	329,853	Nov. 3	581	149	33	613
Washing-machine	J. B. Pettit	316,821	Apr. 28	2544	665	31	481
Washing-machine	G. Piper	328,428	Oct. 13	1209	312	33	229
Washing-machine	C. W. Postlethwaite	323,073	July 28	2209	600	32	435

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.'s	Vol.	Page.
Washing-machine.	G. W. Ray	331,910	Dec. 8	988	256	31	1183
Washing-machine.	W. J. Reed	318,135	May 19	1613	453	31	638
Washing-machine.	J. W. Rhoades	327,824	Oct. 6	417	108	33	73
Washing-machine.	J. B. Richardson	328,255	Oct. 13	967	251	31	184
Washing-machine.	W. H. Richardson	330,154	Nov. 10	989	558	33	701
Washing-machine.	M. W. Robinson and H. W. Marriner.	316,064	Apr. 21	1501	373	31	255
Washing-machine.	W. Rochlitz	319,028	June 2	116	32	31	1089
Washing-machine.	H. B. Rogers	328,432	Oct. 13	1213	313	33	230
Washing-machine.	F. A. Ruff	326,080	Sept. 8	1120	285	32	1229
Washing-machine.	J. Scharr	323,740	Aug. 4	466	132	32	610
Washing-machine.	A. Schwarz	327,024	Sept. 29	2443	638	32	1491
Washing-machine.	C. R. Sell and W. S. Davis	320,339	Sept. 15	1505	392	32	1303
Washing-machine.	I. E. Smith	321,706	July 7	487	129	32	91
Washing-machine.	O. E. Smith	327,832	Oct. 6	496	111	33	75
Washing-machine.	J. M. Tanner	325,457	Sept. 1	325	79	32	1077
Washing-machine.	H. H. Tuttle	329,418	Oct. 27	2611	474	33	496
Washing-machine.	J. A. Tynan	330,858	Nov. 17	1904	515	33	883
Washing-machine.	W. Tyson	328,441	Oct. 13	1226	318	33	232
Washing-machine.	W. T. Venable	328,262	Oct. 13	974	254	33	185
Washing-machine.	J. R. Vestal	328,091	Oct. 13	765	199	33	144
Washing-machine.	S. L. Wagener	316,203	Apr. 21	1690	443	31	339
Washing-machine.	H. W. Webster	324,199	Aug. 11	1091	295	32	734
Washing-machine.	J. O. Wcece	318,584	May 26	2227	585	31	956
Washing-machine.	E. N. Wicks	329,608	Nov. 3	254	66	33	553
Washing-machine.	C. Whisler	331,329	June 30	3201	833	31	1665
Washing-machine.	V. Wilhelm	326,257	Sept. 15	1395	363	32	1266
Washing-machine.	B. and J. Wing	311,935	Feb. 10	634	174	30	475
Washing-machine.	J. F. Wood	327,507	Sept. 29	3076	801	32	1692
Washing-machine.	J. W. Woodruff	331,931	Dec. 8	1021	265	33	1199
Washing-machine.	G. Wostenholm	330,360	Nov. 10	1260	335	33	754
Washing-machine.	J. P. Wright	326,996	Sept. 22	2315	606	32	1461
Washing-machine and teeter or seesaw. Combined.	S. Sewell	330,626	Nov. 17	1598	427	33	826
Washing-machine and wringer. Combined.	J. A. Tynan	330,857	Nov. 17	1901	515	33	883
Washing-machine. Atmospheric	D. E. Taylor	327,619	Oct. 6	159	39	33	99
Washing-machine. Boiler	N. W. Chain	327,136	Sept. 29	2399	677	32	1518
Washing-machine. Boiler	J. Porter and H. B. Kepperling	330,735	Nov. 17	1746	470	33	855
Washing-machine. Hot-water-circulating	A. Huffer	314,846	Mar. 31	2458	649	30	1284
Washing-machine pounder	D. F. Casey	328,003	Oct. 13	645	170	33	327
Washing-machine. Pounder	C. F. Rigby	328,811	Oct. 20	1709	445	33	327
Washing-machine. Roller	A. Sly and H. E. Gile	327,201	Sept. 29	2688	608	32	1448
Washing-machine. Steam	G. Kroos	326,875	Sept. 22	2246	580	32	1335
Washing-machines. Agitator for	E. G. Baldwin	326,830	Sept. 22	2183	570	32	1477
Washing-machines. Driving mechanism for	F. M. Watkins	321,555	July 7	205	54	32	40
Washing-machines. Reversing-gearing for	J. M. Oakley	326,672	Sept. 22	1930	508	32	1393
Washing-piece-goods. Apparatus for	B. Davies and J. Eckersley	315,252	Apr. 7	381	94	31	63
Washing-piece-goods. Apparatus for	R. Patrick, Jr. and G. Godfrey	324,723	Aug. 18	1796	496	32	872
Washing-rubber. Hand	J. W. Williams	329,350	Oct. 27	2502	644	31	477
Waste-pipe for wash-basins, bath-tubs, &c.	O. H. Keep	317,373	May 5	602	154	31	653
Waste-pipe trap and valve	P. Harvey	316,962	May 5	42	13	31	530
Waste-valve. Automatic	J. H. and E. S. Bacon and V. Secord	330,664	Nov. 17	1645	442	33	836
Watch	A. Chopard	311,566	Feb. 3	146	42	30	376
Watch	H. W. Hayden	312,848	Feb. 24	1892	518	30	722
Watch	E. Kuhn	330,905	Nov. 24	1965	531	33	902
Watch. Alarm	C. Maasman	311,594	Feb. 3	182	52	30	322
Watch-arbors. Making crowns for winding	G. E. Hart	314,834	Mar. 31	2443	645	30	1282
Watch-balance	J. E. A. Uhrig	311,797	Feb. 3	435	117	30	436
Watch-balance-wheel	A. S. Buckelov	330,558	Nov. 17	1530	406	33	810
Watch-balance-wheel	W. D. Davies	322,003	July 14	937	242	32	179
Watch-balances. Apparatus for testing and grading	J. Logan	329,916	Nov. 10	666	170	33	636
Watch-balances. Manufacture of	C. S. Guernsey	325,605	Sept. 1	514	129	32	1113
Watch-barrel	C. S. Guernsey	325,603	Sept. 1	512	129	32	1113
Watch-barrel	J. Hay	316,965	May 5	46	19	31	531
Watch-barrel	L. Van Bemmel	327,359	Sept. 29	2695	755	32	1570
Watch. Breastpin	D. Goldsmith	320,870	June 23	2603	690	31	1549
Watch-case	W. Carpenter	322,680	July 21	1705	453	32	327
Watch-case	C. K. Colby	333,057	Dec. 22	2609	624	33	1485
Watch-case	R. E. Fenner	323,654	Aug. 4	360	102	32	529
Watch-case	E. C. Fitch	315,756	Apr. 14	1090	296	31	204
Watch-case	E. C. Fitch	316,767	Apr. 28	2477	646	31	468
Watch-case	E. C. Fitch	324,675	Aug. 18	1738	479	32	861
Watch-case	W. H. Fitz Gerald	327,078	Sept. 29	2517	656	32	1504
Watch-case	C. K. Giles	330,228	Nov. 10	1073	285	33	719
Watch-case	C. K. Giles	330,229	Nov. 10	1070	285	33	719
Watch-case	E. Haas	321,021	June 30	2814	748	31	1394
Watch-case	C. W. Harman	313,326	Mar. 3	415	104	30	682
Watch-case	C. W. Harman and H. G. Skidmore.	10,556	Feb. 3	524	142	30	477
Watch-case	(Reissue.)						
Watch-case	E. F. Heffernan	322,449	July 21	1400	267	32	271
Watch-case	B. F. Hope	330,487	Nov. 17	1431	383	33	794
Watch-case	J. Lamont	321,826	July 7	579	151	32	106
Watch-case	J. Lamont	328,791	Oct. 20	1662	438	33	332
Watch-case	J. Lamont	330,717	Nov. 17	1715	463	33	849
Watch-case	V. Nivols	325,433	Sept. 1	292	72	32	1071
Watch-case	D. O'Hara	313,360	Mar. 3	435	116	30	861
Watch-case	D. O'Hara	316,214	Apr. 28	2536	673	31	479
Watch-case	D. O'Hara. (Reissue.)	10,605	June 2	621	169	31	1167
Watch-case	C. Schuetz	312,907	Feb. 24	1067	537	32	735
Watch-case	C. H. Shaw	323,370	July 28	2689	716	32	512
Watch-case	G. C. Smith	316,072	Apr. 21	1514	395	31	287

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Watch-case. Anti-magnetic	C. K. Giles	312,458	Feb. 17	1371	378	30	619
Watch-case bezel	W. Burns, Jr.	321,886	July 7	657	170	32	120
Watch-case bezel	C. W. Peyn	320,384	June 23	2246	594	31	1480
Watch-case center	J. C. Dueber. (Reissue)	10,266	Mar. 3	598	153	30	888
Watch-case hinge	E. F. Heffernan	319,914	June 9	1151	304	31	1368
Watch-case hinge	F. Rapp	313,448	Mar. 3	575	148	30	883
Watch-case hinge	F. Rapp	313,449	Mar. 3	576	148	30	884
Watch-case pendant	D. H. Church	328,229	Oct. 13	1006	262	33	191
Watch-case pendant	E. C. Fitch	319,091	June 9	967	257	31	1236
Watch-case pendant	A. M. Yeakel	317,914	May 12	1320	354	31	774
Watch-case spring	T. L. Bear	311,563	Feb. 3	143	41	30	375
Watch-case spring	G. W. Blakeslee	320,710	Sept. 22	1985	521	32	1403
Watch-case spring	A. Grandjean	311,894	Feb. 10	583	160	30	464
Watch-case springs. Fitting for	W. H. Fitz Gerald and G. C. Smith	316,953	May 5	31	9	31	528
Watch-cases. Forming rims on	C. Chabot	321,687	July 7	376	100	32	70
Watch-cases. Machine for turning	J. Frossard	312,198	Feb. 10	1010	275	30	541
Watch-cases. Mechanism for forming beveled rims on	C. Chabot	321,686	July 7	375	100	32	70
Watch-crowns. Apparatus for corrugating cores for	A. C. Dalzell	320,285	Oct. 27	2402	623	33	460
Watch-crowns. Apparatus for making cores for	A. C. Dalzell	320,284	Oct. 27	2400	622	33	459
Watch dials and faces. Producing the painted Roman capital numeral letters upon	D. R. Buchanan and E. L. Dodge	321,272	July 28	2538	674	33	486
Watch-dials. Apparatus for figuring	T. F. Proctor	310,313	Jan. 6	202	55	30	39
Watch-dials. Apparatus for recessing	E. D. Wetherbee	325,276	Sept. 1	93	26	32	1032
Watch dust-proof case	C. K. Giles	320,127	June 16	1590	420	31	1353
Watch-escapement	G. Krichewski and A. Edmonds	321,611	July 7	276	73, 74	32	53
Watch-guard	C. F. Bauer	320,122	Oct. 27	2174	563	33	416
Watch-key	D. Roberts	320,699	June 23	2395	633	31	1508
Watch-key	H. G. Skildmore	310,737	Jan. 13	740	207	30	146
Watch key and pendant	J. Lamont	322,297	July 14	1190	312	32	226
Watch-maker's tool	H. P. Prulm	312,221	Feb. 10	1041	225	30	548
Watch-maker's wheel-cutting engine	J. Cook	319,072	June 2	174	46	31	1080
Watch-movement	A. D. Bingham	323,772	Aug. 4	515	145	32	619
Watch-movement	G. E. Hart	324,689	Aug. 18	1758	485	32	865
Watch-movement box	E. C. Fitch	315,755	Apr. 14	1089	298	31	204
Watch-movement box	F. Fitt	310,937	Jan. 20	1006	272	30	199
Watch-movement box	A. F. Freeland and C. H. Whitten	325,304	Aug. 25	2446	673	32	1000
Watch-movement box	R. B. Lester	318,124	May 19	1604	429	31	835
Watch-movement box	N. V. Randolph	321,854	July 7	621	160	32	113
Watch-plate	S. T. J. Byam	323,852	Aug. 4	601	169	32	636
Watch-plate	G. E. Hart	320,896	July 7	669	173	32	121
Watch-plate	G. E. Hart	320,401	Oct. 13	1174	303	33	222
Watch-plates. Enlargement-ring for	W. E. Doolittle	311,297	Jan. 27	1530	416	30	302
Watch-protector	J. Adler	321,471	July 7	90	24	32	18
Watch-regulator	D. H. Church	312,253	Feb. 17	1083	289	30	565
Watch-regulator	C. M. Howard	314,672	Mar. 31	2206	566	30	1238
Watch-regulator	P. and C. Kaul	322,185	July 14	1060	274	32	201
Watch-regulator	A. Merkelbach	318,780	May 26	2479	664	31	1003
Watch-regulator	G. P. Reed	311,009	Feb. 3	200	56	30	386
Watch-regulator	S. P. Sandmark	318,208	May 19	1710	457	31	855
Watch. Repeating	C. Morlet and E. Dupuis	325,254	Sept. 8	853	214	32	1179
Watch repeating attachment	F. Terstegen	311,270	Jan. 27	1485	407	30	294
Watch. Self-winding	H. Von der Heydt. (Reissue)	10,613	June 16	2070	544	31	1439
Watch. Self-winding	H. Von der Heydt	332,623	Dec. 8	1144	292	33	1212
Watch-stand alarm	J. Burmann	327,919	Oct. 6	536	140	33	96
Watch stem-winder mechanism	A. S. Galentine	314,283	Mar. 24	1692	451	30	1117
Watch. Stem-winding	L. Aebly	320,611	Nov. 3	258	66, 67	33	554
Watch. Stem-winding	A. Chopard. (Reissue)	10,431	May 12	941	241	31	702
Watch. Stem-winding	D. H. Church. (Reissue)	10,431	Aug. 4	665	187	32	648
Watch. Stem-winding	A. E. Hotchkiss	325,247	Sept. 1	20	7	32	1019
Watch. Stem-winding	H. A. T. Reinecke	325,568	Sept. 1	472	118	32	1106
Watch. Stem-winding	A. Sandoz	326,677	Sept. 22	1943	210	32	1395
Watch. Stem-winding	H. R. Smith and R. Folom. (Reissue)	10,554	Jan. 27	1747	476	30	342
Watch. Stem winding and setting	D. H. Church. (Reissue)	10,580	Apr. 14	1409	365	31	262
Watch. Stem winding and setting	C. P. Corliss	325,706	Sept. 1	329	96	32	1089
Watch. Stem winding and setting	C. T. Higginbotham	330,401	Nov. 17	1323	332	33	773
Watch. Stem winding and setting	R. L. Taft	330,273	Nov. 10	1135	302	33	730
Watch. Stem winding and setting	N. R. Varney	323,985	Aug. 11	782	217	32	677
Watch stem-winding and hand-setting attachment	G. Hunter	312,456	Feb. 24	1907	523	30	725
Watch stem winding and setting attachment	H. A. T. Reinecke	310,465	Jan. 13	896	242	30	175
Watch stem winding and setting mechanism	C. V. Woerd	330,337	Nov. 17	1492	399	33	804
Watch stem-winding device	H. Vent	318,339	May 19	1878	504	31	886
Watch. Stop	F. Fitt	319,136	Jan. 20	1003	272	30	198
Watch. Stop	F. Fitt	325,402	Sept. 1	252	63	32	1063
Watch. Stop	H. A. Lugrin	331,117	Dec. 1	237	63	33	1039
Watch. Stop	P. V. Perret	315,829	Apr. 14	1180	308	31	221
Watch. Stop	G. B. St. John	319,145	June 2	251	68	31	1095
Watch-winding attachment	C. S. Guernsey	325,404	Sept. 1	513	128	32	1113
Watch-winding device	A. G. Wiseman	320,609	June 23	2278	602	31	1477
Watch winding-stop	W. Bell	316,226	Apr. 21	1720	452	31	325
Watches. Balance-wheel for	C. S. Guernsey	325,602	Sept. 1	512	128	32	1113
Watches. Device for testing balance-wheels of	F. F. Ide	328,848	Oct. 20	1758	458	33	336
Watches. Hand-setting mechanism for	W. E. Doolittle	323,795	Aug. 4	520	150	32	622
Watches. Machine for roughing out pinions for	C. V. Woerd	320,902	June 30	2776	737	31	1586
Watches. Stem-winding attachment for	G. E. Hart	325,536	Sept. 1	432	107	32	1099
Watches. Testing and grading balance-wheels of	J. Logan	329,915	Nov. 10	664	170	33	636
Watches. Testing balance-wheels of	F. F. Ide	328,847	Oct. 20	1756	457	33	336

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Water and alkali proof fabric	J. H. Stebbins, Jr., and P. Casamajor	318,075	Apr. 21	1518	31	908
Water and other fluids. Apparatus for purifying	W. A. O. Hegeman	327,260	Sept. 29	2769	719	32	1549
Water. Apparatus for checking the waste of	E. E. Furney	331,490	Dec. 1	331	80	32	1057
Water. Apparatus for purification of	A. R. Leeds	333,431	Aug. 4	61	16	32	534
Water. Apparatus for purification of	A. R. Leeds	333,432	Aug. 4	63	16	32	534
Water. Apparatus for raising	C. Burnett	325,568	Sept. 1	494	133	32	1110
Water. Apparatus for utilizing the current force of	E. L. Brady	328,447	Oct. 13	1231	319	33	333
Water-back	F. Armstrong	324,515	Aug. 18	1515	417	32	818
Water-can. Poultry	M. H. Strong	331,097	Nov. 24	2209	508	33	949
Water-carrier	J. F. Fine	315,267	Apr. 7	397	99	31	72
Water-closet	H. J. Bailey	327,219	Sept. 29	2707	704 705	32	1539
Water-closet	A. F. Biesch	313,281	Mar. 3	353	87	30	840
Water-closet	P. Brady	328,180	Oct. 13	877	228	33	106
Water-closet	L. and J. Brandt	315,467	Apr. 14	675	175	31	126
Water-closet	W. Bunting, Jr.	317,717	May 12	1052	274	31	723
Water-closet	W. Bunting, Jr.	325,587	Sept. 1	492	123	39	1110
Water-closet	W. Bunting, Jr.	331,610	Dec. 1	548	134	33	1084
Water-closet	T. Gunning and J. Quigley	319,974	June 16	1380	369	31	1315
Water-closet	J. L. and C. P. Howard	322,101	July 14	947	246	39	181
Water-closet	J. L. Hutchinson	330,706	Nov. 17	1703	460	33	947
Water-closet	F. J. Mers	322,626	July 21	1640	433 434	32	314
Water-closet	R. Muirhead	314,145	Mar. 17	1507	384	30	1073
Water-closet	J. Sayer	324,173	Aug. 11	1036	283	32	723
Water-closet	W. Smith	314,617	Mar. 31	2133	568	30	1294
Water-closet	S. F. Sniffen	319,336	June 2	491	132 133	31	1141
Water-closet	D. Whiteford	318,842	May 26	2569	663 664	31	1017
Water-closet-apparatus handle	J. H. Hawley	311,982	Feb. 10	714	195	30	448
Water-closet attachment	W. H. Graham	326,496	Sept. 15	1693	443	39	1348
Water-closet. Automatic flushing	W. B. Parsons, Jr.	332,428	Dec. 15	1729	453	33	1290
Water-closet bidet attachment	J. L. Mott, Jr.	312,373	Feb. 17	1254	345 346	30	596
Water-closet bowl	H. C. Weedon	323,473	Aug. 4	114	33	32	543
Water-closet bowl	H. C. Weedon	323,549	Aug. 4	921	65	32	543
Water-closet bowl. Porcelain	R. H. Watson	330,990	June 30	2775	737	31	1565
Water-closet bowls. Apparatus for flushing	T. Keyworth	311,587	Feb. 3	173	49	30	381
Water-closet cistern	P. Carney	330,625	June 23	2303	608	31	1490
Water-closet. Cistern and flushing apparatus for	W. Strong	329,078	July 14	917	238	32	175
Water-closet cisterns. Door-connection for	D. Burrows	327,133	Sept. 29	2606	676	32	1517
Water-closet cisterns. Valve mechanism for	G. R. Moore	311,599	Feb. 3	190	54	30	384
Water-closet cisterns. Valve mechanism for	G. R. Moore, Jr.	329,934	Nov. 10	694	173	33	641
Water-closet drip-tray	C. H. Moore	331,993	Dec. 8	1106	287	33	1265
Water-closet float-valve	A. F. Biesch	317,710	May 12	1045	271	31	723
Water-closet flushing-valve	M. T. F. O'Donnell	311,026	Jan. 20	1128	363	30	523
Water-closet. Hopper	H. W. Mansur	311,342	Jan. 27	1503	436	30	54
Water-closet pan	E. J. Brady	310,370	Jan. 6	820	77	30	338
Water-closet. Portable	C. C. Nash	311,443	Jan. 27	1727	470	30	62
Water-closet seat	M. Fox	310,401	Jan. 6	318	88	30	62
Water-closet. Single-piece porcelain washout	A. Fowkes and T. Connolly	330,574	Nov. 17	1536	411	33	614
Water-closet supply-tank	W. Bunting, Jr.	329,361	Oct. 27	2521	650	33	630
Water-closet supply-tank	W. Bunting, Jr.	329,885	Nov. 10	632	160	33	630
Water-closet supply-tanks. Valve for	W. Bunting, Jr.	332,635	Dec. 15	2016	529	33	1570
Water-closet supply-valve	H. S. Lord	323,388	July 14	1315	342 343	32	250
Water-closet tank	J. W. Somerville	333,758	Dec. 22	2202	581	33	1511
Water-closet tank or cistern	M. J. Smith	311,207	Jan. 27	1392	340	30	276
Water-closet valve	H. C. Apel	310,972	Jan. 20	1058	287	30	609
Water-closet valve	H. S. Lord	330,843	Nov. 17	1879	508	33	1074
Water-closet valve	W. Scott	331,556	Dec. 1	423	113	33	1074
Water-closet valve	W. Scott	331,557	Dec. 1	428	113 114	33	1075
Water-closet valve	W. Scott	331,558	Dec. 1	433	114	33	1075
Water-closet valve	E. A. Straat	326,528	Sept. 15	1735	453	32	1331
Water-closet valve	P. White	313,687	Feb. 24	1673	461	30	694
Water-closet ventilator	J. H. McGovern and J. H. Willson	323,707	Aug. 4	422	121	32	609
Water-closets, sewers, &c. Flush-tank for	W. S. Chaplin	317,505	May 12	786	201	31	674
Water-closets, &c. Supply-valve for the flushing-tanks of	H. C. Weedon	317,055	May 5	162	41	31	532
Water-closets, &c. Valve for	W. H. Gants	313,314	Mar. 3	402	100	30	630
Water-closets, &c. Valve for	G. Haydn	318,899	May 26	2641	700	31	1032
Water-closets. Water-supply apparatus for	T. McHugh	320,950	June 30	2714	720	31	1574
Water-conveying apparatus	A. C. Hare	320,933	June 30	2695	715	31	1571
Water-cooler	J. O. Brookbank	316,231	Apr. 21	1725	453	31	326
Water-cooler	J. H. Ward	327,361	Sept. 29	2896	756	32	1576
Water cooler and filter. Combined	J. M. Bruce	315,120	Apr. 7	176	43	31	32
Water cooler and filter. Combined	J. Lindle	320,473	June 23	2113	557	31	1433
Water-cooler and refrigerator	J. Lindle	320,484	June 23	2114	557	31	1435
Water, &c. Cooler for	J. A. Van Drelzen	321,666	July 7	339	90	32	64
Water-courses. Apparatus for cleaning, widening, and deepening	B. J. Gifford and J. E. Jones	321,355	June 30	2325	862 863 864	31	1671
Water-currents. Velocimeter for	H. Flad	314,323	Mar. 24	1737	463 464 465	30	1126
Water-distributor. Automatic	J. Cornell	327,141	Sept. 29	2603	678	32	1518
Water-distribution. Main for	S. B. Peeney	312,158	Feb. 10	956	261	30	533
Water-elevating apparatus	A. M. Granger	317,639	May 12	955	245	31	704
Water-elevating apparatus	A. M. Granger	329,450	Nov. 3	88	8	33	510
Water-elevator	H. S. Daggett	324,235	Aug. 11	1133	308	32	741
Water-elevator	B. J. Hewitt	327,167	Sept. 29	2641	687	32	1565
Water-elevator	C. M. Kimball	318,916	May 26	2603	705	31	1035

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dis.	Vol.	Page.
Water-elevator.	E. McAllister	311,664	Feb. 3	268	74	30	389
Water-elevator.	J. H. and T. D. Morris	320,137	June 16	1623	432	31	1359
Water-elevator.	T. A. Porter	329,485	Nov. 3	82	22	33	520
Water-elevator.	J. W. Thorp	327,205	Sept. 29	2693	700	32	1536
Water-elevator bucket. Windlass	C. W. Schmueser	314,061	Mar. 17	1392	363	30	1053
Water-elevator. Floating	F. T. Smythe	320,184	June 16	1659	440	31	1365
Water for propelling vessels. Utilizing the power of running	L. Gaillard	320,135	June 16	1586	419	31	1352
Water for sanitary purposes. Appliance and arrangement for controlling, regulating, and arresting the supply of	G. H. and S. Jennings and J. Morley	326,431	Sept. 15	1616	421 422	32	1328
Water for sanitary purposes, &c. Appliance and arrangement for controlling, regulating, and arresting the supply of	G. H. and S. Jennings and J. Morley	326,432	Sept. 15	1618	422 423	32	1328
Water-gage	G. S. Chase	311,471	Feb. 3	13	4	30	351
Water-gage	H. Ochswadt	318,284	May 19	1805	463	31	873
Water-gage	R. L. Willis	311,093	Jan. 20	1229	336	30	241
Water-gage	W. Young	333,046	Dec. 22	2598	681	33	1493
Water-gage and faucet. Combined	J. G. L. Boettcher	323,778	Aug. 4	516	145	32	619
Water-gage. Automatic	L. C. Bailey and W. S. Alexander	319,052	June 2	145	39	31	1074
Water-gages. Glass tube for	A. Guilbert-Martin	332,920	Dec. 22	2417	639	33	1452
Water-gate	C. J. Cheney	323,562	Aug. 4	236	69	32	565
Water-gate	D. T. Hopgood	322,607	July 21	1617	422	32	310
Water-gate	W. A. Lovelace	328,297	Oct. 20	1823	475	33	348
Water-gate	R. Pattee	330,800	Nov. 17	1824	491	33	869
Water-hammer preventive	F. L. Mentel	312,822	Feb. 24	1930	531	30	730
Water-heater	M. Matthews	322,946	July 28	2085	554	32	402
Water heater and circulator	P. Smith	314,735	Mar. 31	2287	607	30	1252
Water heater and purifier	G. H. Babcock and L. Pine	314,414	Mar. 24	1855	494	30	1149
Water into cisterns from roofs of buildings. Apparatus for delivering clean	F. Sencan	316,184	Apr. 21	1669	437	31	317
Water. Means for supplying	J. Baker	326,192	Sept. 15	1300	336	32	1269
Water-meter	G. S. Follansbee	327,155	Sept. 20	2628	694	32	1523
Water-meter	P. H. Rosenkranz and F. Prophet	314,450	Mar. 24	1852	520	30	1165
Water-meter. Oscillating	J. W. Byrne	332,637	Dec. 15	2020	530	33	1371
Water-meter. Oscillating	L. H. Nash	330,577	June 23	2230	591	31	1477
Water-meter. Oscillating	L. H. Nash	330,578	June 23	2234	592	31	1478
Water-meter. Oscillating	L. H. Nash	330,579	June 23	2236	592 593	31	1479
Water-meter. Oscillating	P. T. Puig	318,926	May 26	2675	709	31	1038
Water-meter. Piston	G. H. Fox	327,671	Oct. 6	234	57	33	41
Water-meter. Piston	G. H. Fox	327,672	Oct. 6	235	58	33	42
Water-meter. Piston	F. W. and A. F. Hood	318,476	May 26	2064	558	31	922
Water-meter. Piston	J. R. Norfolk	319,992	June 16	1404	369	31	1319
Water-meter pistons. Device for regulating the throw of	F. W. Hood	316,038	Apr. 21	1468	383	31	270
Water-meter. Proportional	L. H. Nash	332,935	Dec. 22	2432	645	33	1456
Water-meter. Proportional	L. H. Nash	332,937	Dec. 22	2437	645	33	1456
Water-meter registering device	F. W. Hood	315,796	Apr. 14	1127	296	31	211
Water-meter. Rotary	H. Fredrick	316,614	Apr. 28	2242	591	31	426
Water-meter. Rotary	F. A. Hinds	314,190	Mar. 17	1484	388	30	1069
Water-meter. Rotary	J. Rowbotham	325,361	Sept. 1	172	46	32	1047
Water-meter. Rotary	J. Rowbotham	325,362	Sept. 1	174	46, 47	32	1047
Water-meter. Rotary	H. Schneider	319,134	June 2	248	65	31	1093
Water-meter. Rotary	F. W. Tuerk, Jr.	328,544	Oct. 20	1350	352 353	33	261
Water-meter. Rotary	C. T. Warren	328,734	Oct. 20	1624	423	33	310
Water-meters. Operating proportional	L. H. Nash	332,936	Dec. 22	2434	645	33	1456
Water-motor	C. P. Bradley	322,785	July 21	1847	490 491	32	353
Water-motor	W. T. Christy	319,391	June 2	555	151	31	1153
Water-motor	J. F. Sullivan	313,030	Feb. 24	2137	581	30	766
Water-motor	H. L. Walker	321,282	June 30	3119	830	31	1648
Water-pipe	C. Bilz	318,856	May 26	2584	688	31	1020
Water-pipe cushion	J. O. Waddell	315,453	Apr. 7	650	168	31	116
Water-pipes. Anti-freezing attachment for	W. G. Frederick	317,331	May 5	554	141	31	624
Water-pipes. Device for stopping leaks in	W. H. Robertson	327,899	Oct. 6	507	131	33	91
Water-power	M. J. Erskine	331,694	Dec. 1	672	167	33	1117
Water-pressure engine	J. N. S. Williams	321,559	July 7	210	55	32	42
Water-proof composition for felt, paper, &c.	O. Ziurek	323,016	July 28	2185	39	32	421
Water-proof compound	J. T. Elliott	313,412	Mar. 3	580	30	30	874
Water-proof fabric. Colored	T. Hawley	310,275	Jan. 6	152	42	30	30
Water-proof fabrics. Making	T. Hawley	331,298	Dec. 1	57	14	33	1010
Water-proof fabrics. Manufacturing	F. E. Hall	320,781	June 23	2491	660	31	1527
Water-proof garment	L. Cory	316,245	Apr. 21	1747	459 460	31	330
Water-proof garment	M. S. Lorsch	317,812	May 12	1181	314	31	747
Water-proof. Rendering cloth, wood, paper, &c.	N. A. Alexanderson	326,088	Sept. 15	1156	32	32	1243
Waterproofing boots, shoes, &c. Compound for	J. B. Dupret	322,402	Aug. 4	24	32	32	527
Waterproofing. Composition of matter for	J. V. Reagles	311,293	Jan. 27	1388	30	276	3
Waterproofing compound	D. Blackburn	327,514	Oct. 6	6	33	71	
Waterproofing fabric	F. S. Mitchell	327,613	Oct. 6	404	33	71	
Water. Purifying	T. W. Duffy	314,003	Mar. 17	1319	344	30	1039
Water. Purifying	J. W. Hyatt	326,321	Sept. 15	1340	346 347	32	1276
Water-purifying apparatus	J. W. Hyatt	322,104	July 14	955	248	32	182
Water-purifying apparatus	J. H. Miller	331,151	Nov. 24	2291	620 621	33	962
Water-purifying apparatus	R. H. Thurston	322,332	July 14	1233	323	32	235
Water-purifying compound	A. and C. Melzer	322,839	July 21	1928	32	367	
Water-raising apparatus	C. Burnett	326,267	Sept. 15	1405	366	32	1288
Water-repellent fabrics. Preparation of a fluid for making	A. B. Conger	310,560	Jan. 13	515	30	105	

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Water-service. Purifying and aerating apparatus for.	J. Howes	322,722	July 21	1760	466	32	337
Water-supply pipes. Automatic relief-valve in.	A. R. Leeds	327,091	Sept. 29	2549	467	32	1502
Water-tank.	F. J. Carney	332,489	Dec. 15	1802	473	33	1333
Water-tank. Automatic stock	R. H. Barber	330,667	Nov. 17	1648	443	33	837
Water-tanks. Overflow-alarm for	F. A. Cushing	313,658	Mar. 10	847	220	30	944
Water-tower	J. B. Logan	311,905	Feb. 10	600	164	30	467
Water-trap.	J. P. Putnam	311,085	Jan. 20	1220	334	30	239
Water-trap.	J. P. Putnam	311,086	Jan. 20	1221	335	30	240
Water-trap.	J. P. Putnam	311,087	Jan. 20	1223	335	30	240
Water-trap.	J. P. Putnam	311,146	Jan. 20	1302	358	30	254
Water-trap. Siphon	W. P. Buchan	326,713	Sept. 22	1990	592	32	1404
Water-tube boiler	W. Kent	326,990	Sept. 29	2403	628	32	1424
Water-tube boiler	E. J. Moore	320,509	June 23	2525	669	31	1534
Water-tube boiler	J. W. Van Dyke	315,189	Apr. 7	297	70	31	53
Water-wheel	E. M. Carhart	318,869	May 26	2608	692	31	1025
Water-wheel	J. B. Collins	326,718	Sept. 22	2007	525	32	1406
Water-wheel	J. P. Collins	331,184	Nov. 24	2336	632	33	971
Water-wheel	H. Cooper	332,057	Dec. 8	1903	314	33	1222
Water-wheel	W. W. Dunn	317,934	May 12	1542	361	31	778
Water-wheel	L. L. Randall	323,734	Aug. 4	480	130	32	609
Water-wheel	J. Smith	318,214	May 19	1720	460	31	857
Water-wheel	J. W. Wesson	322,028	July 14	1651	221	32	163
Water-wheel	J. H. Williamson	329,351	Oct. 27	2503	645	32	472
Water-wheel	R. A. Wingo	322,879	July 21	1984	586	32	377
Water-wheel. Double-acting	C. W. Rau	313,621	Mar. 10	796	209	30	934
Water-wheel gate	D. L. Trullinger	330,753	Nov. 17	1768	477	32	859
Water-wheel governor. Electric	E. H. Amet	326,934	Sept. 29	2234	611	32	1471
Water-wheel governor. Electric	E. H. Amet	328,556	Oct. 20	1374	338	33	255
Water-wheel. Turbine	C. P. Bradway	328,179	Oct. 13	876	227	33	166
Water-wheel. Turbine	W. H. Elmer	314,171	Mar. 17	1540	403	30	1079
Water-wheel. Turbine	B. V. Idol	324,113	Aug. 11	953	292	32	706
Water-wheel. Turbine	J. T. Kelly, Sr.	328,314	Oct. 13	1039	299	33	197
Water-wheel. Turbine	J. Raab	325,112	Aug. 25	2321	639	32	978
Water-wheel. Turbine	C. R. Sylvestre	321,660	July 7	332	82	32	63
Water-wheel. Turbine	J. W. Truax	318,223	May 19	1731	462	31	859
Water-wheel. Turbine	W. Waddell	322,764	July 21	1819	481	32	347
Water-wheels. Valve-gear for high-speed	I. Lepley	311,591	Feb. 3	179	50	31	382
Waterer. Stock	A. J. Balch	326,829	Sept. 22	2183	569	32	1437
Watering device. Stock	E. A. and M. C. Mike	324,870	Aug. 25	2009	551	32	919
Watering stock. Apparatus for.	F. Teal	310,038	June 2	127	35	31	1071
Watering stock. Device for.	J. H. Gilbert	313,317	Mar. 3	405	101	30	851
Watering swine. Apparatus for	H. H. Wempe	316,319	Apr. 21	1843	466	31	347
Watering-trough for animals.	A. E. Barber	315,697	Apr. 14	993	261	31	187
Watering trough. Stock	T. W. Boles	330,028	Nov. 10	909	235	33	64
Wave-power. Mechanism for utilizing	C. Leavitt	321,229	June 30	3081	818	31	1649
Wave-power. Utilizing	T. P. Chandler, Jr.	328,759	Oct. 20	1646	429	33	315
Wax-end twister.	O. P. Clark and L. C. Crouch	317,729	May 12	1765	278	31	725
Weaner. Calf.	T. W. Evans	320,056	June 16	1489	393	31	1335
Weaner. Calf.	E. P. Henry	328,675	Oct. 26	1546	402	33	296
Weaner. Calf.	H. B. Straut	317,881	May 12	1272	339	31	765
Weaning calves. Device for.	H. Shank and W. E. Meek	332,293	Dec. 15	1539	403	33	1227
Weather-boarding gage	C. Dunbar and J. A. Rector	328,061	Oct. 20	1529	378	33	293
Weather-boarding gage	J. Essex	318,555	May 26	2194	526	31	930
Weather-strip	J. Y. Bassell	330,769	Nov. 17	1787	481	33	802
Weather-strip	J. Y. Bassell	330,866	Nov. 24	1914	519	33	893
Weather-strip	C. A. Binkley	310,364	Jan. 6	274	75	30	33
Weather-strip	S. Chaffin	317,926	May 12	1333	358	31	777
Weather-strip	G. W. Chinn	312,610	Feb. 24	1578	431	30	686
Weather-strip	J. Cotrell	313,921	Mar. 17	1219	317	30	1090
Weather-strip	J. Fisher	320,120	June 16	1578	416	31	1351
Weather-strip	G. L. Fowler	325,597	Sept. 1	505	196	32	1112
Weather-strip	S. Funk	311,825	Feb. 3	468	127	30	437
Weather-strip	S. Funk	328,479	Oct. 20	1269	339	33	246
Weather-strip	S. J. Gard and J. Zaruba	310,406	Jan. 6	323	89	30	63
Weather-strip	W. Harrison	333,226	Dec. 29	2955	779	33	1553
Weather-strip	E. V. Heasford	316,264	Apr. 21	1770	465	31	334
Weather-strip	D. H. Iseninger	314,532	Mar. 24	2022	540	30	1177
Weather-strip	J. H. Lamoureux	314,855	Mar. 31	2469	633	30	1286
Weather-strip	A. Lowe	327,563	Oct. 6	81	18	33	15
Weather-strip	W. H. Plympton	327,106	Sept. 29	2561	668	32	1511
Weather-strip	J. W. Power	319,121	June 2	234	61	31	1091
Weather-strip	J. Sr. and J. Shilling, Jr.	329,226	Oct. 27	2320	601	33	444
Weather-strip	G. W. Shuman	329,962	Nov. 10	729	186	33	648
Weather-strip	J. Trachsel, J. K. Lipps, and W. H. Turney	318,437	May 19	2017	543	31	911
Weather-strip	G. G. Wagner	311,392	Jan. 27	1659	453	30	325
Weather-strip	T. Weaver	311,929	Feb. 10	696	173	30	473
Weather-strip	O. E. Woodbury and H. W. Storck	320,034	June 16	1458	383	31	1330
Weather-strip	G. Zitzman	319,162	June 2	279	73	31	1099
Weather-strip and door-stop. Combined.	G. W. Hadeedy	319,490	June 9	708	190	31	1128
Web-associating apparatus	L. C. Crowell	316,120	Apr. 21	1568	419	31	301
Web-threading apparatus	L. C. Crowell	331,223	Dec. 1	37	8	33	106
Wedge	C. R. Countryman	315,006	Apr. 7	28	7	31	7
Wedge-cutter	F. T. Jenkins	318,747	May 26	2434	652	32	995
Wedge-driving machine	F. S. Strong	325,709	Sept. 8	668	167	32	1145
Weed-extractor	F. Voltery	316,084	Apr. 21	1532	400	31	366
Weed-killing machine	J. P. Rand	311,525	Feb. 3	90	26	33	1250
Weed-puller	R. V. Stocking	332,169	Dec. 8	1372	355	33	305
Weed-pulling machine	E. L. Rasmussen	328,715	Oct. 20	1600	417	33	335
Weeder. Hand	L. C. Hill	311,428	Jan. 27	1712	466	30	936
Weeding and thinning device for growing plants	J. N. Stevenson	313,631	Mar. 10	806	211	30	727
Weeding implement	J. Jenkins	324,382	Aug. 18	1336	363	32	

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Weeding-tool	C. Dronne	317,523	May 12	808	207	31	678
Weeding-tool. Hand	F. N. Lang	324,565	Aug. 18	1570	434	32	830
Weigher and register. Automatic grain	I. N. and C. F. Griffith	331,962	Dec. 8	1063	276	33	1198
Welgher. Automatic grain	C. E. Burchard	833,444	Dec. 29	8144	821	33	1585
Welgher. Automatic grain	G. J. Gibbons	324,373	Aug. 18	1322	360	32	784
Weighing and package-filling machine. Automatic	C. C. Clawson	315,729	Apr. 14	1040	274	31	185
Weighing and package-filling machine. Automatic	C. C. Clawson	315,730	Apr. 14	1045	274	31	196
Weighing and package-filling machine. Automatic	C. C. Clawson	315,731	Apr. 14	1048	275	31	196
Weighing and recording device. Electric	E. H. Amet	317,432	May 5	689	174	31	647
Weighing and sacking machine. Automatic	F. M. Gladish	321,209	June 30	3058	811	31	1637
Weighing and tallying machine. Grain	I. H. Murdick	320,383	June 16	1975	519	31	1423
Weighing apparatus	W. F. Irvine	331,640	Dec. 1	600	148	33	1102
Weighing apparatus. Automatic grain	C. Seesale	317,220	May 5	398	100	31	596
Weighing apparatus. Stop-motion for grain	C. Seesale	332,116	Dec. 8	1296	336	33	1238
Weighing-machine. Automatic	J. Stevens	325,282	Sept. 1	70	21	32	1029
Weighing-machine. Automatic	V. Weber and J. R. Harrison	326,074	Sept. 8	1140	290	32	1232
Weighing-machine. Automatic grain	C. Reuther	323,533	Aug. 4	196	57	32	558
Weight-motor	E. S. Cain	313,708	Mar. 10	905	236	30	955
Weir and sluice	M. D. Czvetkovics	331,038	Nov. 24	2129	577	33	934
Welding compound	C. C. Fields	313,716	Mar. 10	916	.....	30	957
Welding compound	E. Watkins	322,223	July 14	1106	.....	32	210
Welding-machine	G. S. Strong	324,609	Aug. 18	1635	450	32	842
Well-boring apparatus	G. Peoh	315,296	Apr. 14	1178	307	31	921
Well-boring apparatus	G. Platt	314,473	Mar. 24	1945	518	30	1164
Well-boring drill or bit	R. P. Williams and E. B. Morrell	321,560	July 7	212	56	32	42
Well boring. Expanding drill-bit for Artesian	C. C. Lane	326,661	Sept. 22	1916	503	32	1390
Well-boring machine	W. C. Wells	315,868	Apr. 14	1235	322	31	231
Well-boring tool	H. C. Safford	318,034	May 19	1491	400	31	813
Well-cover	H. P. Bullock and H. B. Cook	325,816	Sept. 8	815	904	32	1172
Well-curb	M. Walker	310,341	Jan. 6	246	67	30	47
Well-drill. Self pumping and expanding	W. C. Wells	332,688	Dec. 15	2098	551	33	1385
Well-drilling apparatus	J. Gardner	313,921	Mar. 10	1062	273	30	983
Well-drilling machine	W. E. Brown	310,675	Jan. 20	914	249	30	184
Well-fixture	J. T. Senn	311,923	Feb. 10	618	171	30	473
Well-pipe-closing clamp	H. L. Aden, Jr.	323,098	July 28	2305	609	32	442
Well-point. Drive	M. H. Morris	315,815	Apr. 14	1164	305	31	218
Well-point. Drive	J. E. Parker	313,882	Mar. 17	1157	301	30	1009
Well-point. Drive	J. Vosburgh	321,550	July 7	201	53	32	40
Well-point. Driven	W. C. Nye	328,858	Oct. 20	1769	461	33	338
Well-reamer	W. D. Braden	315,596	Apr. 14	865	228	31	161
Well-reamer	F. M. Gray	310,270	Jan. 6	147	41	30	27
Well rig. Artesian	A. T. Hyde	331,714	Dec. 1	704	174	33	1122
Well-tube	J. Elliott	311,299	Jan. 27	1532	417	30	302
Well-tube	F. W. Miller	311,024	Jan. 20	1125	307	30	222
Well. Tube	F. H. Smith	313,893	Mar. 17	1169	305	30	1011
Well-tube for drive-wells	W. C. Wells	316,318	Apr. 21	1842	486	31	346
Well valve. Tubular	R. G. Marcy	318,770	May 26	2466	661	31	1001
Wells. Apparatus for sinking	M. Stopper	329,968	Nov. 10	741	189	33	650
Wells. Casing-head for oil, gas, and other deep bored	D. Berry	322,242	July 14	1126	283	32	214
Wells. Coupling device for sand-points in drive	C. F. Lang and O. C. Stafford	312,867	Feb. 24	1925	527	30	728
Wells. Device for forming the interior of	D. J. Lord	314,387	Mar. 24	1825	485	30	1143
Wells. Protecting	S. McEachen	326,439	Sept. 15	1627	425	32	1329
Wells. Rock-drilling mechanism for Artesian	J. Button	314,793	Mar. 31	2392	633	30	1273
Wells. Sand-arrester for driven	C. W. Huffman	325,222	Oct. 13	927	241	33	177
Wells. Slide-valve for oil	J. B. Watson	833,492	Dec. 29	3209	840	33	1596
Wells. Tubing and packing Artesian and oil	J. Bole	313,915	Mar. 17	1207	315	30	1017
Well-trimmer	C. A. Squire	331,338	Dec. 1	114	27	33	1019
Wharf	J. B. Sanford	320,292	June 16	1812	481	31	1392
Wheat-breaking machine	H. Hudson and M. Tobey	315,143	Apr. 7	211	51, 62	31	39
Wheat-meal product	T. H. Foulde	327,250	Sept. 29	2748	.....	32	1546
Wheat, oats, and cockle separator	J. Lucas	322,548	July 21	1532	404	32	285
Wheat-scourer	T. McCudden and A. F. Shearlock	315,155	Apr. 7	233	56	31	42
Wheat scouring and cleaning machine	F. Dorsey	322,700	July 21	1741	459	32	333
Wheat-splitting machine	T. Sheldon	331,185	Nov. 24	2310	626	33	966
Wheel:							
See Anti-friction wheel. Paddle-wheel.							
Bicycle-wheel. Propeller-wheel.							
Car-wheel. Skate-wheel.							
Carriage-wheel. Sprocket-wheel.							
Cast-wheel. Steam-wheel.							
Cog-wheel. Tiller-wheel.							
Current-wheel. Traction-wheel.							
Elastic-tired wheel. Traction-engine wheel.							
Fifth-wheel. Truck-wheel.							
Game-wheel. Trundling-wheel.							
Gear-wheel. Vehicle-wheel.							
Harvester-wheel. Velocipede-wheel.							
Iron wheel. Ventilator-wheel.							
Metallic wheel. Water-wheel.							
Minute-wheel. Wind-wheel.							
Wheel	R. Bean	315,995	Apr. 21	1416	368	31	269
Wheel	W. P. Bettendorf	325,585	Sept. 1	491	123	32	1109
Wheel	J. Frenier	313,831	Mar. 17	1238	322	30	1023
Wheel	G. S. Long	320,076	June 16	1517	409	31	1341
Wheel	G. W. Mechem	324,141	Aug. 11	991	273	32	715
Wheel	J. E. Mustard	324,852	Aug. 25	2115	579	32	940
Wheel	E. W. Otis	325,439	Sept. 1	303	74	32	1073
Wheel	J. F. Tucker	323,441	Aug. 4	74	20, 21	32	536
Wheel	S. T. Williams	325,301	Sept. 1	88	22	32	1033
Wheel	S. T. Williams	325,893	Sept. 8	885	225	32	1187
Wheel and axle coupling	A. B. Carter	324,653	Aug. 18	1709	471	32	856

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Wheel and axle coupling.....	A. B. Carter.....	324,654	Aug. 18	1711	471	32	858
Wheel and pinion. Making a combined.....	G. E. Hart.....	328,402	Oct. 13	1175	303	33	222
Wheel for agricultural implements.....	J. A. Long and E. L. Babcock.....	331,248	Nov. 24	2436	659	33	988
Wheel for belts or cables and means for driving them.....	C. M. Huson.....	312,275	Feb. 17	1124	308 309	30	573
Wheel-guard.....	A. B. Cole.....	325,821	Sept. 8	820	205	32	1173
Wheel-jack.....	J. F. Johnson.....	320,477	June 23	2104	555	31	1454
Wheel or pulley.....	G. P. Clark.....	329,581	July 21	1588	418 419	32	304
Wheel-securing device.....	G. P. Steinbach.....	330,748	Nov. 17	1763	475	33	858
Wheels. Machine for cutting teeth of duplex.....	E. A. Marsh.....	323,175	July 28	2402	637 638 133	32	461
Wheels. Machine for molding.....	J. J. Carr.....	329,814	Nov. 3	524	134	33	603
Wheels. Manufacture of.....	G. D. Owen and R. Dyson.....	310,846	Jan. 13	875	236	30	171
Wheels. Manufacture of metal.....	J. R. Little.....	313,004	Feb. 24	2093	571	30	759
Wheelbarrow.....	P. Gendron.....	322,277	July 14	1164	305	32	221
Wheelbarrow.....	D. J. Huckins.....	331,712	Dec. 1	702	173	33	1122
Wheelbarrow.....	H. W. Knowlton.....	314,185	Mar. 17	1554	407	30	1021
Wheelbarrow.....	J. W. Marshall.....	314,035	Mar. 17	1362	375	30	1047
Wheelbarrow.....	J. Stoll.....	324,606	Aug. 18	1631	448	32	841
Wheelbarrow.....	D. B. Tiffany.....	326,340	Sept. 15	1522	396	32	1311
Whiffletree.....	J. F. Collins.....	314,803	Mar. 31	2404	636	30	1275
Whiffletree.....	M. B. Kirker.....	324,848	Aug. 25	1978	544	32	913
Whiffletree.....	C. R. Walter and J. E. Blackburn.....	315,361	Apr. 7	518	132	31	94
Whiffletree-circle.....	W. Bailey.....	328,998	Oct. 27	1969	517	33	395
Whiffletree-coupling.....	D. A. Reed.....	333,335	Dec. 29	3005	787	33	1562
Whiffletree-coupling.....	W. S. Ward.....	320,313	June 16	1861	469	31	1401
Whiffletree-coupling.....	F. D. Warner and W. J. Matthews.....	329,788	Nov. 3	426	133	33	597
Whiffletree. Elastic.....	J. F. Collins.....	314,804	Mar. 31	2405	636	30	1275
Whiffletree-hook.....	S. Austin.....	325,192	Aug. 25	2428	667	32	997
Whiffletree-hook.....	H. C. Bates.....	310,869	Jan. 20	908	247	30	183
Whiffletree-hook.....	C. H. Collins.....	323,116	July 28	2327	616	32	447
Whiffletree-hook.....	H. B. Davis.....	322,163	July 14	1033	268	32	196
Whiffletree-hook.....	J. R. Davis.....	322,527	July 21	1512	398	32	291
Whiffletree-hook.....	C. G. Jacobus.....	331,715	Dec. 1	706	174	33	1123
Whiffletree-hook.....	M. H. Simmons.....	313,720	Mar. 10	1006	260	30	973
Whiffletree-iron.....	O. Vanorman.....	330,530	Nov. 17	1485	397	33	603
Whiffletree rein-guard.....	F. E. Corey.....	322,909	July 28	2031	536	32	392
Whiffletrees. Evener-spring for.....	E. C. Currey.....	319,961	June 16	1358	357	31	1312
Whip.....	W. Fish.....	318,689	June 9	965	256	31	1235
Whip.....	M. J. Heaphy.....	315,281	Apr. 7	417	104	31	75
Whip.....	J. Holding.....	312,719	Feb. 24	1719	472	30	692
Whip.....	E. M. Turner.....	320,193	June 16	1669	444	31	1362
Whip and line holder.....	I. W. Cooper.....	328,406	Oct. 20	1954	336	33	244
Whip and rein holder.....	J. J. Rose.....	319,901	Feb. 24	1958	535	30	734
Whip and rein holder. Combined.....	A. E. Batman.....	318,060	May 19	1547	414	31	823
Whip-core.....	H. Mullen and J. Noble, Jr.....	315,653	Apr. 14	930	246	31	175
Whip-core.....	R. M. Wilson, E. M. Spear, and M. F. Peirce.....	327,746	Oct. 6	318	82	33	55
Whip-holder.....	R. Peters and W. J. Swartzenburg.....	318,020	May 19	1469	393	31	810
Whip-rack.....	H. McPherson.....	317,826	May 12	1203	319	31	752
Whip-rack.....	J. A. McPherson.....	321,624	July 7	821	77	32	56
Whip-socket.....	C. L. Bard.....	318,531	May 26	2146	578	31	944
Whip-socket.....	F. Baumgartner.....	313,160	Mar. 3	171	41	30	808
Whip-socket.....	B. F. D. Miller.....	330,256	Nov. 10	1110	294	33	725
Whip-socket.....	J. P. Niemann.....	325,562	Sept. 1	464	116	32	1104
Whip-socket.....	J. P. Niemann.....	325,563	Sept. 1	465	116	32	1105
Whip-socket.....	G. P. Rose.....	327,021	Sept. 9	2441	638	32	1491
Whip-socket.....	E. W. Scott.....	312,768	Feb. 24	1783	492	30	704
Whip-socket.....	E. W. Scott.....	323,452	Aug. 4	87	26	32	538
Whip-socket.....	E. Shorkey and A. Rush.....	312,522	Feb. 17	1467	402	30	636
Whip-socket.....	C. N. Webb.....	330,448	Nov. 17	1382	368	33	73
Whip-socket.....	M. M. Zellers.....	324,064	Aug. 11	894	246	32	696
Whip-socket and rein-holder. Combined.....	E. M. Crumley.....	311,815	Feb. 3	455	124	30	434
Whip-socket and rein-holder. Combined.....	G. M. Custer.....	311,876	Feb. 10	546	150	30	434
Whip-socket fastener.....	A. Searls.....	327,113	Sept. 29	2569	670	32	1513
Whip-socket fastener.....	J. W. Tillyer.....	313,032	Feb. 24	2139	581	30	766
Whip-socket lock.....	R. McDougall.....	327,184	Sept. 29	2668	694	32	1530
Whip-socket. Locking.....	M. W. Ryland.....	323,369	July 28	2688	715	32	511
Whip-socket, oil-can, and wrench. Combined.....	C. L. Bard.....	315,110	Apr. 7	165	40	31	31
Whip-stock.....	H. Mullen and J. Noble, Jr.....	318,432	May 19	2013	542	31	919
Whip-stocks, &c. Machine for the manufacture of.....	O. Bryant and E. Ring.....	318,348	May 19	1905	513 514	31	890
Whisky. Making.....	C. S. Corning.....	325,322	Sept. 1	123	35	32	1038
Whisky. Making.....	F. M. Young.....	314,096	Mar. 17	1440	376	30	1069
Whisky. Making.....	F. M. Young.....	321,169	June 30	3008		31	1028
Whistle.....	A. L. Fisher.....	321,202	June 30	3051	809	31	1616
Whistle. Bicycle alarm.....	F. L. Johnson.....	326,745	Sept. 22	2063	536	32	1415
Whitewash-package.....	C. F. Crockett.....	322,583	July 21	1590	419	32	867
Wick-adjuster.....	C. A. Fletcher and W. H. Wilder.....	318,714	May 26	2368	636	31	948
Wick-adjuster.....	M. A. Morris.....	313,678	Mar. 10	865	225	30	1392
Wick-adjuster.....	H. A. Sanford.....	320,291	June 16	1811	481	31	297
Wick-adjusting mechanism for oil-burners.....	C. P. Goodspeed.....	315,769	Apr. 14	1108	291	31	297
Wick and burner. Lamp.....	W. Painter.....	329,589	Nov. 3	324	59	33	548
Wick cutter and cleaner. Lamp.....	H. Rieger.....	310,466	Jan. 6	385	107	30	75
Wick. Lamp.....	I. Lynd.....	315,429	Apr. 7	619	159	31	110
Wick raiser. Lamp.....	A. Combs.....	324,087	Aug. 11	920	254	32	701
Wick trimmer. Argand-lamp.....	O. A. Stempel.....	314,743	Mar. 31	2299	610	30	1355
Wick trimmer. Lamp.....	H. H. Hawley.....	332,900	Dec. 22	2393	632	33	1448
Wig.....	A. F. Godefroy.....	320,928	June 30	2628	714	31	1570
Winch. Loading.....	F. Locke.....	319,279	June 2	416	111	31	1126
Wind-engine.....	D. H. Bausman.....	313,646	Mar. 10	894	215	30	949
Wind-engine.....	P. T. Coffield.....	322,796	July 21	1859	494	32	355

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Wind-engine	H. B. Colman	317,093	May 5	215	54	31	562
Wind-engine	H. B. Colman	317,628	May 12	942	242	31	702
Wind-engine	J. G. Hanover	310,419	Jan. 6	334	92	30	65
Wind-engine	C. Leavitt	321,985	July 14	791	206	32	152
Wind-engine	S. E. Limpus	329,914	Nov. 10	663	169	33	636
Wind-engine	T. D. Pollock	316,656	Apr. 28	2296	603	31	435
Wind-engine	D. and W. W. Shilling	320,182	June 16	1656	440	31	1365
Wind-engine	J. W. and F. E. Wood	324,510	Aug. 18	1510	413	32	818
Wind-instrument	L. Oesterle	329,940	Nov. 10	701	180	33	643
Wind-instruments. Mouth-piece for	O. A. Watson	325,715	Sept. 8	676	169	32	1146
Wind-motor	C. A. Geiger and B. Beale	324,020	Aug. 11	829	229	32	685
Wind-motor	T. J. Harrison	320,654	June 23	2339	618	31	1497
Wind-motor	F. S. McKibben	327,186	Sept. 29	2671	694	32	1531
Wind-wheel	L. D. Abrams	326,066	Sept. 15	1155	295	32	1243
Wind-wheel	I. P. Cadman	328,636	Oct. 20	1741	454	33	333
Wind-wheel	J. T. Eden	330,304	Nov. 10	1177	314	33	738
Wind-wheel	J. M. Flint	317,756	May 12	1106	291	31	733
Wind-wheel	W. G. Read	331,543	Dec. 1	406	109	33	1071
Wind-wheel	J. S. Rohrer	326,157	Sept. 15	1246	319	32	1259
Wind-wheel	T. J. Simpson	326,166	Sept. 15	1259	323	32	1262
Wind-wheel	F. G. Talladay	330,168	Nov. 10	1007	263	33	705
Wind-wheel	M. B. Williams	326,614	Sept. 22	1860	487	32	1379
Wind-wheel	W. E. Williams	327,370	Sept. 29	2906	758	32	1572
Wind-wheel. Horizontal	T. J. Simpson	325,366	Sept. 1	183	48	32	1048
Winder. Spool	F. H. Barber	327,511	Oct. 6	2	1	33	3
Winding and twisting machines, &c. Stop-motion mechanism for	J. Boyd	326,391	Sept. 15	1567	407	32	1319
Winding machine spool-carrier	J. McCahey	330,036	Nov. 10	830	213	33	668
Winding-on motion for machines for taping, slashing paper, &c.	Y. Duxbury, Jr	316,343	Apr. 21	1872	495	31	351
Winding strips with worsted or other covering material. Apparatus for	C. A. Ludlow	329,752	Nov. 3	439	112	33	588
Winding yarn or thread onto spools or bobbins. Machinery for	H. C. Hill and H. H. Brown	322,451	July 21	1402	368	32	272
Winding yarn upon shuttle-bobbins or quills. Mechanism for	H. F. Straw	313,124	Mar. 3	111	27	30	797
Windlass	R. F. Carter	316,602	Apr. 28	2228	586	31	423
Windlass	S. T. Richardson	311,370	Jan. 27	1632	447	30	320
Windlass	S. T. Richardson	311,371	Jan. 27	1634	447	30	321
Windlass	S. T. Richardson	311,373	Jan. 27	1636	448	30	321
Windlass	S. T. Richardson	311,374	Jan. 27	1657	448	30	321
Windlass locking-gear	F. A. Grater	316,259	Apr. 21	1764	464	31	333
Windlass locking-gear	C. A. Potter	332,287	Dec. 15	1531	401	33	1286
Windmill	J. Q. Adams	311,937	Feb. 10	637	175	30	475
Windmill	J. Q. Adams	323,425	Aug. 4	129	37	32	546
Windmill	W. R. Allen	322,341	July 14	1245	327	32	237
Windmill	J. Benoit	312,795	Feb. 24	1820	500	30	710
Windmill	J. Burky	322,345	July 14	1255	328	32	238
Windmill	J. Chalberg	317,298	May 5	502	127	31	615
Windmill	P. T. Coffield	310,385	Jan. 6	299	62	30	57
Windmill	H. B. Colman and G. Turner	317,731	May 12	1068	279	31	726
Windmill	R. M. Cosby	315,484	Apr. 14	705	166	31	131
Windmill	A. Currier	318,676	May 26	2614	694	31	1026
Windmill	A. R. and C. B. Dempster	324,092	Aug. 11	925	256	32	702
Windmill	A. C. Ellsworth	331,288	Dec. 1	49	11	33	1008
Windmill	F. Fauning	318,175	May 19	1668	447	31	847
Windmill	E. Gilman	330,014	Nov. 10	803	205	33	661
Windmill	J. E. Goodhue	321,100	June 30	2926	775	31	1612
Windmill	T. Hatfill	321,292	June 30	3156	842	31	1656
Windmill	E. F. Lester	312,134	Feb. 10	906	247	30	525
Windmill	H. Manvel and M. B. Williams	322,463	July 21	1420	371	32	274
Windmill	J. Marcus	320,570	June 23	2221	568	31	1475
Windmill	G. H. Pattison	317,186	May 5	348	88	31	587
Windmill	G. H. Poe	318,498	May 26	2095	566	31	935
Windmill	J. H. Rowell	318,928	May 26	2678	710	31	1038
Windmill	A. L. Sherred	321,760	July 7	478	126	32	89
Windmill	F. W. Starr	322,662	July 21	1961	519	32	372
Windmill	O. Stoddard	320,190	June 16	1666	443	31	1367
Windmill	D. C. Stover	325,707	Sept. 8	661	167	32	1143
Windmill	W. O. Swinnerton	316,078	Apr. 21	1523	397	31	288
Windmill	P. Tefft	325,025	Aug. 25	2213	507	32	956
Windmill	J. Warwick	317,691	May 12	1024	265	31	717
Windmill	A. Wegley	310,237	Jan. 6	85	26	30	20
Windmill	D. D. G. L., and C. W. Wiley	323,615	Aug. 4	304	87	32	579
Windmill	R. F. Wilson	324,284	Aug. 11	1199	325	32	753
Windmill	G. W. Winters	313,148	Mar. 3	147	36	30	804
Windmill	H. Woodmanse and S. Lebkicher	327,508	Sept. 29	3077	801	32	1602
Windmill and piston rods. Connection for	S. Haney	316,031	Apr. 21	1458	340	31	277
Windmill. Geared	G. H. Pattison	319,309	June 2	456	123	31	1134
Windmill-gearing	G. H. Pattison	321,750	July 7	460	122	32	85
Windmill-gearing	G. H. Pattison	322,314	July 14	1210	318	32	230
Windmill-gearing	G. H. Pattison	323,725	Aug. 4	446	127	32	606
Windmill-gearing	G. H. Pattison	329,769	Nov. 3	401	117	33	592
Windmill-gearing	G. H. Pattison	329,770	Nov. 3	403	118	33	592
Windmill-gearing	G. H. Pattison	330,921	Nov. 24	1986	637	33	906

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Windmill-gearing	G. H. Pattison	333,026	Dec. 22	2574	677	33	1420
Windmill-gearing	G. H. Pattison	333,148	Dec. 29	2748	721	33	1515
Windmill-head	J. T. Chinnick	322,187	Oct. 13	885	230	33	167
Windmill, Horizontal	A. De St. Aubin	311,177	Jan. 27	1353	371	30	970
Windmill, Power	H. B. Colman	318,453	May 26	2039	550	31	924
Windmill, Power	H. B. Colman and G. Turner	319,392	June 2	556	151	31	1153
Windmill-regulator	H. R. Adams	331,364	Dec. 1	151	39	33	1025
Windmill-regulator, Pumping	H. R. Adams	331,363	Dec. 1	149	38	33	1024
Windmill, Self-regulating	A. W. Lane	332,261	Dec. 15	1499	392	33	1290
Windmill water-regulator	A. M. Otis	327,190	Sept. 29	2677	685	32	1538
Windmill water-supply regulator	B. W. Tuttle	327,503	Sept. 29	3068	799	32	1600
Windmills, Controlling	W. I. Wooster	321,777	July 7	500	132	32	83
Windmills, Device for transmitting power to	A. T. Winchell	323,011	July 28	2160	578	33	419
Window	R. Adams	310,355	Jan. 6	264	72	36	50
Window	M. S. Buckner	328,943	Sept. 29	2348	614	32	1474
Window	W. C. Bullivant	318,164	May 19	1654	442	31	844
Window	F. Keller	314,683	Mar. 31	2218	529	30	1340
Window	G. H. King	329,651	Nov. 3	303	77, 78	33	562
Window	W. D. Mann	311,020	Jan. 20	1122	306	30	221
Window	R. Martinez	325,753	Sept. 8	729	182	32	1156
Window	A. Matsuka	319,104	June 2	212	55	31	1086
Window	M. S. Millard	311,252	Jan. 27	1457	398	30	289
Window	M. S. Millard and G. H. King	320,808	June 23	2522	668	31	1533
Window	J. W. Naughton	312,005	Feb. 10	738	203	30	493
Window	J. S. Pihlström	321,245	June 30	3099	823	31	1644
Window	S. C. Taylor	326,605	Sept. 23	1844	483	32	1377
Window	E. Wagner	313,138	Mar. 3	131	32	30	801
Window and door screen	E. Fales	319,685	June 9	961	255	31	1224
Window-head fastener	E. A. Johnson	313,674	Mar. 10	861	224	30	947
Window-head fastener	E. E. Masters and L. J. Kimball	316,555	Apr. 28	2169	571	31	412
Window-head fastener	C. R. Nelson	320,161	June 16	1628	433	31	1360
Window-bracket shelf, Folding and-adjustable	E. M. Greer	333,007	Dec. 22	2543	670	33	1474
Window-cleaner	J. S. Rutan	322,070	July 14	908	235	32	173
Window-cleaning chair	A. Dormitzer	319,683	June 9	959	254	31	1234
Window-cleaning seat	C. B. Porter	313,618	Mar. 10	791	208	32	933
Window construction and fastening and hinge	O. Flagstad	325,333	Sept. 1	137	38	32	7041
Window-fastener	G. H. Kanmacher	311,765	Feb. 3	396	108	30	423
Window-fastener	F. Sahr	331,005	Nov. 24	2095	567	33	927
Window-frame	H. E. Willer	312,052	Feb. 10	800	218	30	504
Window-frame	H. E. Willer	315,365	Apr. 7	522	133	31	95
Window frame and sash	J. E. Jones	319,265	June 2	401	106	31	1123
Window-glass fastener	J. Braun and F. Bohn	316,940	May 5	14	4	31	525
Window-guard	W. Hinz	319,272	June 2	387	103	31	1121
Window-guard	J. Polkowski	310,721	Jan. 13	718	196	30	143
Window-hanging	C. Dellenbeck	333,287	Dec. 29	2940	769	33	1550
Window, Hanging	J. R. Whitney	331,460	Dec. 1	305	62	33	1052
Window-platform	H. Hagemann	326,977	Sept. 29	2386	624	32	1481
Window-protecting apparatus	E. Dietz	330,965	Nov. 24	2048	554	33	998
Window-screen	W. G. Anderson	323,898	Aug. 11	673	189	32	657
Window-screen	J. W. Bachus	319,168	June 2	264	75	31	1100
Window-screen	W. Bateman	316,517	Apr. 28	2124	559	31	404
Window-screen	G. R. Clark	318,671	May 26	2611	623	31	1025
Window-screen	D. Cook	315,249	Apr. 7	378	83	31	69
Window-screen	W. M. Dana	329,287	Oct. 27	2405	623	33	460
Window-screen	S. F. Gilmore	325,529	Sept. 1	425	105	32	1097
Window-screen	J. R. Graver	311,627	Feb. 3	470	137	30	437
Window-screen	A. H. Hill	317,456	May 5	719	181	31	633
Window-screen	F. and A. Hubka	318,988	June 2	77	20	30	38
Window-screen	J. K. Proctor	310,312	Jan. 6	201	55	30	38
Window-screen	J. K. Proctor	318,799	May 26	2512	670	31	1007
Window-screen	J. K. Proctor	319,422	June 2	595	162	33	1161
Window-screen	P. Ramser	328,064	Oct. 13	729	190	31	138
Window-screen	M. Roberts	320,289	June 16	1408	480	33	1301
Window-screen	S. J. Vance	332,574	Dec. 15	1941	508	33	1356
Window-screen	M. L. Whitcomb	312,635	Feb. 24	1672	461	32	155
Window-screen	M. L. Whitcomb	328,265	Oct. 13	977	254	32	686
Window-screen and ventilator	J. G. Bronson	324,077	Aug. 11	902	251	32	299
Window-screen, Adjustable	F. M. Lampson and G. W. Hogben	328,691	Oct. 20	1564	407	33	142
Window-screen frame	J. E. Stuart	328,080	Oct. 13	752	196	31	324
Window-screen holder	H. C. Barlow	316,222	Apr. 21	1716	451	30	228
Window-screen roller	S. U. Tarney	311,044	Jan. 20	1155	315	30	197
Window-screen, Rolling	A. E. Swain	321,921	July 7	701	183	32	314
Window-screen, Sliding	J. C. Proctor	316,174	Apr. 21	1657	424	33	632
Window-seat box	W. H. Wetherill	330,651	Nov. 17	1628	437	33	819
Window-shade	R. W. Bates	324,519	Aug. 18	1518	418	32	1320
Window-shade	E. J. Hamm	320,245	June 16	1738	462	31	529
Window-shade, Adjustable	J. H. and W. T. Mitchell	329,758	Nov. 3	449	113	33	600
Window shade and awning	D. R. Stedman	317,238	May 5	420	105	31	779
Window-shade attachment	N. F. Acers	313,041	Mar. 3	1	1	30	962
Window-shade attachment	E. Metcalf	331,150	Nov. 24	2290	620	33	1473
Window-shade attachment, Adjustable	J. H. Granger	333,005	Dec. 22	2541	670	33	676
Window-shade fastener	N. Tomlinson	324,738	Aug. 18	1815	501	32	661
Window-shade roller	W. I. Goodin	330,015	Nov. 10	804	206	33	1088
Window-shade rollers, Gudgeon for	J. Lines	325,422	Sept. 1	278	69	32	469
Window-shades, Bottom bar for	A. H. Gerdon	316,771	Apr. 28	2481	647	31	350
Window-shades, Bottom bar for	D. Strasser and A. H. Gerdon	328,905	Oct. 20	1834	479	33	633
Window-shelf	J. G. O'Neill	318,200	May 19	1701	455	31	833
Window-stop fastener	A. Liesche	333,471	Dec. 29	3184	830	33	1591

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Window-ventilator.....	J. G. Bronson.....	328,182	Oct. 13	879	228	33	166
Window-ventilator.....	P. C. Klapper.....	331,796	Dec. 8	817	{ 207 208 }	{ 33	1151
Window-ventilator.....	W. Scharnweber.....	327,415	Sept. 29	2967	774	32	1583
Window ventilator. Show.....	J. N. Baer and J. S. Edwards.....	323,387	Aug. 4	7	2	32	524
Window ventilator. Show.....	M. G. Mook and W. S. Maywood.....	331,077	Nov. 24	2178	591	33	943
Windows. Preventing the formation of ice on show.....	E. A. Wood.....	317,265	May 5	456	{ 114 115 }	{ 31	607
Windows. Weight-cord and attachment for.....	E. T. Bradbury.....	326,392	Sept. 15	1569	407	32	1319
Wine and cider press.....	O. Kromer.....	328,850	Oct. 20	1761	459	33	336
Wine and cider press.....	G. Wager.....	312,235	Feb. 10	1056	290	30	551
Wine-press.....	J. B. Tupper, Jr.....	327,121	Sept. 29	2577	672	32	1514
Wine without bringing it in contact with atmospheric air. Apparatus for warming.....	F. Antal.....	314,773	Mar. 31	2364	625	30	1268
Wire-annealing apparatus.....	L. Williams.....	312,417	Feb. 17	1311	362	30	608
Wire. Annealing copper.....	W. Wallace and T. J. Wood.....	312,045	Feb. 10	788	.....	30	503
Wire. Barbed.....	H. C. Hart.....	312,463	Feb. 17	1375	379	30	620
Wire. Barbed.....	H. B. Scutt.....	332,755	Dec. 22	2201	580	33	1411
Wire. Barbed.....	A. J. Upham.....	313,391	Mar. 3	492	128	30	868
Wire-barbing machine.....	A. J. Bates.....	325,311	Sept. 1	109	31	32	1036
Wire-barbing machine.....	A. J. Bates.....	329,355	Oct. 27	2511	647	33	478
Wire-barbing machine.....	F. W. Brainerd.....	310,178	Jan. 6	24	6.7	30	7
Wire-barbing machine.....	O. O. Kittleson.....	318,002	May 19	1446	{ 387 388 }	{ 31	805
Wire-barbing machine.....	E. R. Matteson and W. J. Hutchins.....	313,090	Mar. 3	65	18.19	30	790
Wire-barbing machine.....	A. C. Paul.....	316,909	Apr. 28	2682	999	31	506
Wire-barbing machine.....	M. H. Pitts and I. R. Whiteman.....	313,103	Mar. 3	84	22	30	792
Wire-barbing machine.....	J. C. Ross.....	314,481	Mar. 24	1956	{ 520 521 }	{ 30	1166
Wire-barbing machine.....	D. C. Stover.....	318,821	May 26	2539	677	31	1012
Wire-barbing machine.....	D. C. Stover.....	318,822	May 26	2541	677	31	1013
Wire-barbing machine.....	J. Stubbe.....	333,067	Dec. 22	2654	{ 696 697 }	{ 33	1492
Wire-barbing machines. Barb straightening and compressing attachment for.....	A. Jorgensen.....	322,379	July 14	1303	340	32	248
Wire carrier and stretcher.....	W. J. McKee.....	316,161	Apr. 21	1643	430	31	311
Wire-clamp.....	P. F. Keelyn.....	332,347	Dec. 15	1612	423	33	1301
Wire clamp and coupling.....	E. M. Hamilton.....	329,162	Oct. 27	2227	576	33	426
Wire-cleaning machine.....	H. Borchardt.....	326,939	Sept. 29	2340	{ 612 613 }	{ 32	1473
Wire-cloth. Manufacture of.....	B. Scaries.....	314,483	Mar. 24	1959	521	30	1166
Wire-cloth. Manufacture of galvanized.....	E. Gilbert.....	316,615	Apr. 28	2244	591	31	426
Wire cloth or fabric.....	W. Hewitt.....	322,933	July 28	2066	550	32	309
Wire-cloth, sheet metal, &c. Device for folding the edges of.....	M. F. Roberts.....	317,857	May 12	1244	329	31	759
Wire-coated articles. Manufacture of.....	E. Kellermann.....	310,441	Jan. 6	358	98	30	69
Wire-coiling machine.....	J. E. Gaitley.....	319,810	June 9	1145	303	31	1267
Wire-coiling machine.....	C. C. Hill.....	332,525	Dec. 15	1866	{ 488 489 }	{ 33	1343
Wire. Copper-covered.....	J. Spruce.....	314,618	Mar. 31	2134	568	30	1225
Wire-corrugating machine.....	C. H. Morgan.....	333,323	Dec. 29	2090	773	33	1559
Wire-covering machine.....	J. McCahey.....	330,035	Nov. 10	829	213	33	667
Wire-cutting tool.....	W. H. Flinn.....	327,153	Sept. 29	2620	683	32	1522
Wire. Drawing.....	C. S. Hall, A. B. Clemence, and H. F. A. Satterwall.....	325,800	Sept. 8	790	.....	32	1167
Wire. Drawing.....	E. L. Warren and A. Ladd.....	318,062	May 19	1525	409	31	810
Wire. Drawing and galvanizing.....	J. A. Mathieu.....	319,918	June 9	1292	.....	31	1292
Wire-drawing apparatus.....	S. H. Byrne.....	331,680	Dec. 1	661	163	33	1114
Wire-drawing. Coating for.....	F. N. Haskell.....	325,537	Sept. 1	434	.....	32	1099
Wire-drawing die.....	F. M. Blake.....	326,097	Sept. 15	1166	298	32	1245
Wire-drawing die.....	E. M. Johnson.....	321,033	June 30	2830	753	31	1596
Wire-drawing machine.....	A. R. Benton.....	321,478	July 7	95	25	32	19
Wire-drawing machine.....	I. E. Higgins.....	330,114	Nov. 10	936	244	33	690
Wire fabric.....	H. T. Windt.....	323,477	Aug. 4	191	35	32	544
Wire fabric for fences, screens, &c.....	W. Klose.....	316,793	Apr. 28	2511	656	31	474
Wire fabric. Loom for weaving.....	T. Patterson.....	312,008	Feb. 10	743	{ 203 204 }	{ 30	494
Wire-feeding device.....	J. Withington.....	323,013	July 28	2182	579	32	420
Wire-feeding machine.....	O. Arnold.....	315,882	Apr. 14	1256	328	31	234
Wire-feeding machine.....	J. H. Gerry.....	332,689	Dec. 22	2376	628	33	1442
Wire-feeding mechanism.....	S. L. Worsley.....	320,523	June 23	2165	{ 571 572 }	{ 31	1464
Wire for drawing. Preparing.....	C. Booth and R. W. Ney.....	332,321	Dec. 15	1579	.....	33	1294
Wire for pegs. Machine for making screw.....	S. W. Robinson.....	325,275	Sept. 1	61	19	32	1027
Wire frame.....	H. F. Fordham.....	321,204	June 30	3052	809	31	1636
Wire gate.....	D. J. Rindell.....	321,535	July 7	180	48	32	36
Wire gate.....	H. O. Thomas.....	325,219	Aug. 25	2468	678	33	1004
Wire hardening and tempering apparatus.....	J. Thornton.....	323,067	July 28	2289	605	32	439
Wire. Ingot for plated.....	L. L. Burdon.....	327,655	Oct. 6	212	53	33	38
Wire in the coil. Reel for holding.....	A. Cavalli.....	325,394	Sept. 1	244	61	39	1062
Wire machine. Barb.....	C. H. Baker.....	323,490	Aug. 4	136	40	32	547
Wire machine. Barb.....	C. H. Baker and F. L. Bester.....	323,457	Aug. 4	131	38, 39	32	546
Wire machine. Barb.....	C. H. Baker and F. L. Bester.....	323,488	Aug. 4	133	39	32	546
Wire machine. Barb.....	C. H. Baker and F. L. Bester.....	323,489	Aug. 4	134	40	32	547
Wire machine. Barb.....	W. Edenborn.....	330,686	Nov. 17	1672	{ 451 452 }	{ 33	841
Wire machine. Barb.....	W. H. King.....	313,741	Mar. 10	955	247	30	963
Wire machine. Barb.....	G. H. Lasar.....	319,982	June 10	1390	366	31	1317
Wire machine. Barb.....	G. H. Lasar.....	322,112	July 14	963	{ 250 251 }	{ 32	184
Wire machine. Barb.....	G. H. Lasar.....	323,161	July 28	2381	631	32	458
Wire machine. Barb.....	G. H. Lasar.....	327,277	Sept. 29	2779	{ 721 722 }	{ 32	1551
Wire machine. Barb.....	G. P. Schuster.....	322,981	July 28	2141	568	32	413

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Wire machine. Barb.	C. Skinner	322,469	July 21	1461	324 325 326	32	222
Wire machine. Barb.	J. Stubbe	326,806	Sept. 22	2144	558 559 560	32	1431
Wire machine. Barbed.	G. H. Lasar	322,546	July 21	1530	403 404 405	32	285
Wire machine. Bottling.	O. R. Chaplin	314,428	Mar. 24	1874	499 500 501	30	1153
Wire. Machine for bending and forming.	W. B. Curtiss	333,112	Dec. 29	2696	707 708	33	1506
Wire. Machine for forming blanks or articles from.	M. L. Bassett	323,626	Aug. 4	324	93	32	583
Wire. Machine for making barbed.	J. W. Nadelhoffer	314,601	Mar. 31	2111	563	30	1220
Wire. Machine for making compound.	J. W. Ellis	310,805	Jan. 13	894	223 224	30	161
Wire. Machine for making looped twisted.	F. W. Panse and C. F. Klotz	320,582	June 23	2243	594	31	1480
Wire. Machine for making peg.	H. S. Bacon	319,771	June 9	1078	286 287 229	31	1255
Wire. Machine for screw-threading.	A. Cavalli	312,084	Feb. 10	842	230 231	30	513
Wire. Machine for screw-threading.	L. Goddu	310,817	Jan. 13	839	227 228	30	164
Wire. Machine for spirally scoring.	H. K. Jones	315,144	Apr. 7	213	52, 53	31	39
Wire. Machine for straightening, measuring, cutting, and counting.	C. Van Derzee	311,213	Jan. 27	1401	383 384	30	278
Wire. Machinery for the manufacture of.	S. H. Byrne	319,556	June 9	795	211	31	1204
Wire. Making.	T. Midgley	310,956	Jan. 20	1033	920	30	203
Wire. Making ingots for plated.	W. C. Avery	328,871	Oct. 20	1782	465	33	340
Wire netting. Flat.	E. Rattey	322,716	Oct. 20	1601	417	33	306
Wire-netting machine.	H. S. Combs	310,254	Jan. 6	123	34 35 36	30	25
Wire-netting machine.	W. F. Dennis	327,924	Oct. 6	541	141 142	33	97
Wire-notching machine.	H. E. Russell, Jr., and H. K. Jones	315,170	Apr. 7	255	69	31	47
Wire reel and tub.	E. L. Warren	320,421	June 16	2025	538	31	1431
Wire-reel. Portable.	D. A. Roberts	327,195	Sept. 29	2682	697	32	1333
Wire-reel. Portable.	D. A. Roberts	327,196	Sept. 29	2682	697	32	1534
Wire-rod mills. Conductor for.	W. Garrett	318,613	May 26	2258	603	31	992
Wire rods. Machine for reducing.	W. Tucker	322,572	Dec. 15	1934	506 507	33	1335
Wire rope or cable.	T. Seale	315,077	Apr. 7	124	29	31	24
Wire-splicer.	J. A. Helvin and H. Van Hoevenbergh	326,906	Sept. 22	2292	599	32	1456
Wire-splicer.	P. A. O'Malley	312,580	Feb. 17	1541	420	30	651
Wire splicer and tightener.	W. P. Hinson	319,716	June 9	1007	267	31	1943
Wire spool. Barbed.	A. F. Dice	318,967	June 2	50	13	31	1057
Wire spool. Barbed.	D. C. Stover	319,147	June 2	262	68	31	1095
Wire spool. Barbed.	D. C. Stover	327,347	Sept. 29	2280	752	32	1567
Wire. Spool for barb.	G. Case	312,970	Feb. 24	2046	558	30	511
Wire. Spool for barbed.	G. Case	312,188	Feb. 10	949	272	30	117
Wire springs. Apparatus for tempering.	M. N. Lovell	315,457	Apr. 7	656	169	31	109
Wire springs, &c. Tempering.	M. N. Lovell	315,424	Apr. 7	609	157	31	109
Wire-strainer.	C. O. R. Walker	327,126	Sept. 29	2529	674	32	1516
Wire-strainer.	C. O. R. Walker	328,093	Oct. 13	766	900	33	449
Wire-stretcher.	J. E. Blackmore	313,165	Mar. 3	177	43	30	409
Wire-stretcher.	L. D. Drake	322,240	Dec. 15	1472	384	33	1275
Wire-stretcher.	F. M. Ewers	320,433	June 16	2041	536	31	1433
Wire-stretcher.	W. H. Forker	326,419	Sept. 15	1600	416 417	32	1325
Wire-stretcher.	S. Green	321,963	July 14	761	199	32	147
Wire-stretcher.	J. B. Irvine	316,039	Apr. 21	1470	383	31	279
Wire-stretcher.	A. W. Laughlin	325,095	Aug. 25	2304	634	32	274
Wire-stretcher.	E. Long	322,460	July 21	1417	371	32	274
Wire-stretcher.	S. J. McDonald	323,054	July 28	2246	594	32	411
Wire-stretcher.	L. S. McMickin	323,947	Aug. 11	730	204	32	764
Wire-stretcher.	J. M. Merritt	318,012	May 19	1461	391	31	198
Wire-stretcher.	E. S. Mullinax	331,727	Dec. 1	728	182	33	1136
Wire-stretcher.	C. N. Pulso	326,919	Sept. 22	2307	604	32	1439
Wire-stretcher.	E. D. Roberts	318,805	May 26	2512	672	31	1068
Wire-stretcher.	H. H. Stangaard	324,893	Aug. 25	2038	558	32	921
Wire-stretcher.	A. J. Upham	325,460	Sept. 1	328	79	32	1077
Wire-stretcher and staple-puller. Combined.	E. Moore	321,130	June 30	2958	724	31	1012
Wire-stretcher and support.	C. Willkie	313,146	Mar. 3	142	36	30	403
Wire-stretching implement.	J. Withington	324,255	Aug. 11	1300	326	31	154
Wire support and holder.	C. Willkie	329,869	Nov. 3	601	154	33	617
Wire-tension apparatus.	W. E. Woodbridge	317,267	May 5	458	115	31	467
Wire-tightener.	A. J. Upham	332,172	Dec. 8	1374	355	33	1251
Wire-twister.	H. Miller	313,632	May 12	1214	321	31	733
Wire-twisting machine.	H. Frank	321,492	July 7	110	30	32	22
Wire-uncoiling machine.	O. P. Briggs	315,707	Apr. 14	1007	265	31	149
Wire-unwinding reel.	J. Withington	323,012	July 28	2181	579	32	420
Wire with metal. Apparatus for coating.	M. G. Farmer	310,994	Jan. 20	1087	297	30	215
Wire with metal. Machine for covering.	J. Zengerle	320,321	June 16	1877	493	31	1403
Wire-work.	W. R. Boerner	312,701	Feb. 24	1695	466 467	30	67
Wires. Composition of matter for the preservation and insulation of.	J. W. Ellis	321,956	July 14	754	197	32	145
Wires. Machine for grinding the ends of.	J. Berry	324,641	Aug. 18	1694	467	32	53
Wiring vessels. Machine for.	H. S. Reynolds	322,615	Oct. 20	1461	380	33	241
Wood and paper sorting machine. Centrifugal.	H. Schlatte	310,469	Jan. 6	367	108	30	23

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Wood and other opaque bodies. Decorating.	W. Hyland	333,127	Dec. 29	2719		33	1511
Wood. Apparatus for creosoting.	L. Hansen and A. Smith.	316,961	May 5	41	11	31	530
Wood. Apparatus for impregnating.	J. H. Young.	329,799	Nov. 3	497	126 127	33	599
Wood-bending machine.	J. R. Cross	314,229	Mar. 24	1612	426	30	1102
Wood-bending machine.	C. E. Sargent	322,856	July 21	1948	515	32	370
Wood-bundling machine.	J. W. Blaisdell	325,483	Sept. 1	358	87	32	1024
Wood. Cutting and packing kindling.	J. L. Seymour	317,420	May 5	666	169	31	644
Wood cutting, bundling, and tying machine.	F. Kingston	332,155	Dec. 8	1354	350 351	33	1247
Wood-cutting machine.	A. L. Stanford.	324,603	Aug. 18	1626	447	32	841
Wood-dressing machine.	C. D. Smith.	327,303	Sept. 29	2690	690	32	1535
Wood-embossing.	W. A. Compton.	331,770	Dec. 8	799	200	33	1147
Wood-embossing machine.	W. A. Compton.	331,769	Dec. 8	786	199	33	1146
Wood-filler.	J. M. Coppernoll and J. W. Brandow.	3 9,792	June 9	1112		31	1261
Wood-filler.	H. Hales.	317,125	May 5	261		31	571
Wood-filler.	A. Hoexter and G. Schuler	327,085	Sept. 29	2525		32	1505
Wood-filler.	S. F. Woodhouse	318,935	May 26	2687		31	1040
Wood. Fireproofing.	R. Tanczos	329,973	Nov. 10	746		33	851
Wood-fluting mechanism.	O. C. Donecker	324,669	Aug. 18	1729	476	32	850
Wood-grinder.	E. F. Millard	320,574	June 23	2226	590	31	1476
Wood. Machine for bundling kindling.	J. C. Everett and R. Hardie	311,424	Jan. 27	1707	465	30	334
Wood. Machine for spirally winding a strip of.	J. Macfarlane	323,699	Aug. 4	413	118 119	32	600
Wood ornamentation.	L. S. Hayes.	312,849	Feb. 24	1895		30	723
Wood ornamentation.	W. H. Roystone	313,535	Mar. 10	683	179	30	913
Wood ornamentation.	G. A. Watkins	320,518	June 23	2160	570	31	1464
Wood. Ornamenting.	D. McMullan	314,392	Mar. 24	1830	487	30	1144
Wood, &c. Ornamenting surfaces of.	J. M. Wade	322,219	July 14	1100		32	209
Wood, &c. Ornamenting the surfaces of.	D. L. Darsn	317,317	May 5	528	134	31	620
Wood-peeling machine.	L. Poole and F. P. Snow.	314,676	Mar. 31	2499	663	30	1293
Wood-polishing machine.	F. Gale	325,527	Sept. 1	423	104 105	32	1007
Wood. Preserving.	J. P. Card	317,440	May 5	700		31	649
Wood. Preserving.	E. Z. Collings and C. F. Pike	317,730	May 12	1066	279	31	726
Wood. Preserving.	L. Hansen and A. Smith.	317,129	May 5	265		31	572
Wood-preserving apparatus.	E. Z. Collings and C. F. Pike	310,680	Jan. 20	920	251	30	185
Wood-preserving apparatus.	L. Hansen and A. Smith.	323,819	July 21	1894	502	32	360
Wood-splitting machine.	D. A. Greene	313,586	Mar. 10	749	197 198	30	926
Wood-splitting machine.	E. A. and S. B. Hildreth.	321,969	July 14	768	200	32	148
Wood-steamng apparatus.	V. Wheat.	310,926	Jan. 20	985	268	30	195
Wood-turning machine.	M. E. Tucker.	313,840	Mar. 10	1090	283 284	30	988
Wood-working machine.	H. H. Shelp	325,279	Sept. 1	67	20, 21	32	1028
Wood-working machinery. Device for conveying and precipitating dust arising from.	D. D. Drummond. (Reissue).	10,568	Mar. 10	1097	285	30	989
Wooden vessels. Machine for cutting.	W. D. Johnson	315,509	Apr. 14	733	194 195	31	137
Wool. Apparatus for removing vegetable fiber from.	J. Illingworth	321,899	July 7	672	174 175	32	122
Wool burring and picking machine.	T. H. Faulkner.	332,651	Dec. 15	2047	537 538	33	1476
Wool-burring machinery.	C. L. Goddard.	317,638	May 12	952	244	31	704
Wool-drier.	D. H. Rice.	316,060	Apr. 21	1496	391	31	284
Wool-drier.	F. G. and A. C. Sargent	327,198	Sept. 29	2684	697	32	1534
Wool. Machine for feeding, opening, and mixing.	S. R. Parkhurst	323,523	Aug. 4	184	53, 54	32	556
Wool or cotton. Machine for picking and burring.	J. R. Clark and H. Tindell	326,273	Sept. 15	1413	368	32	1289
Wool, &c. Removing foreign substances from.	E. Harmel	318,730	May 26	2407	642	31	999
Wool-washing machine.	F. G. and A. C. Sargent	327,199	Sept. 29	2685	698	32	1534
Wool-washing machine.	F. G. and A. C. Sargent	330,930	Nov. 24	2004	541	33	910
Wool-washing machine.	J. E. Sinclair	330,163	Nov. 10	1000	260 261 262	33	703
Work-holder.	S. L. Otis.	322,312	July 14	1208	318	32	929
Woven fabric.	G. Berteaux.	333,276	Dec. 29	2996	766	33	1548
Wrapper for silks, &c.	T. J. Oakley	321,048	June 30	2848	758	31	1599
Wrapper. Sample-package.	S. G. Howe	322,453	July 21	1408	369	32	272
Wrench:							
See Combination-wrench. Pipe and monkey wrench.							
Jaw-wrench.							
Pipe-wrench.							
Rapid-transit wrench.							
Ratchet-wrench.							
Wrench.	G. A. Barnes	330,369	Nov. 17	1276	339	33	764
Wrench.	D. S. Blue	326,637	Sept. 22	2191	571	32	1439
Wrench.	A. Call	317,923	May 12	1330	357	31	776
Wrench.	A. Call	317,924	May 12	1331	358	31	776
Wrench.	T. J. Campbell	322,256	July 14	1141	298	32	217
Wrench.	R. S. Carr	333,108	Dec. 29	2692	706	33	1505
Wrench.	G. J. Chino	332,051	Dec. 8	1197	312	33	1221
Wrench.	R. F. Cook	325,503	Sept. 1	381	93	32	1088
Wrench.	I. Cressey	314,517	Mar. 24	2004	534	30	1174
Wrench.	F. S. Duell	331,951	Dec. 8	1045	271	33	1195
Wrench.	J. Du Shane	331,188	Nov. 24	2347	635	33	973
Wrench.	J. A. Fairbanks	329,542	Nov. 3	166	44	33	537
Wrench.	F. Farrar	331,627	Dec. 1	585	144	33	1100
Wrench.	J. Forshey and C. G. Hirlinger	314,572	Mar. 31	2079	555	30	1215
Wrench.	M. Gale	332,866	Dec. 22	2374	628	33	1442
Wrench.	J. Gibbons	311,892	Feb. 10	581	159	30	464
Wrench.	W. D. Goodson	324,104	Aug. 11	941	259	32	705
Wrench.	N. H. Griffith.	331,053	Nov. 24	2145	582	33	937
Wrench.	E. Harris	326,268	Sept. 22	2240	584	32	1447
Wrench.	T. B. Heiney and C. G. Lauck	332,522	Dec. 15	1863	487	33	1342
Wrench.	J. Huber	320,357	June 16	1928	508	31	1413
Wrench.	E. M. Hungerford	322,937	July 28	2072	551	32	400

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Wrench.....	E. B. Jackson.....	330,835	Nov. 17	1887	504	33	877
Wrench.....	C. Kabisch.....	331,974	Dec. 8	1082	281	33	1301
Wrench.....	H. T. King.....	320,797	June 23	2508	664	31	1530
Wrench.....	B. F. Lancaster.....	325,942	Sept. 8	956	243	32	1306
Wrench.....	A. Langstrom.....	327,550	Oct. 6	76	17	33	15
Wrench.....	S. J. Lea.....	330,594	Nov. 17	1557	417	33	818
Wrench.....	J. McLean.....	325,001	Aug. 25	2188	589	32	951
Wrench.....	W. L. Parker.....	311,202	Jan. 27	1387	379	30	278
Wrench.....	E. Phillips.....	331,158	Nov. 24	2302	623	33	965
Wrench.....	J. L. Phillips.....	310,960	Jan. 20	1039	281	30	205
Wrench.....	D. R. Porter.....	325,010	Aug. 25	2197	602	32	953
Wrench.....	G. F. Pottle.....	317,670	May 12	996	258	31	719
Wrench.....	S. Robinson.....	320,172	June 16	1641	437	31	1363
Wrench.....	K. Seifried.....	326,680	Sept. 22	1946	511	32	1385
Wrench.....	A. W. Stosselster.....	328,980	Oct. 27	1968	511	33	320
Wrench.....	T. J. Wilson.....	314,095	Mar. 17	1439	376	30	1092
Wrench.....	R. Wolfe.....	330,453	Nov. 17	1388	370	33	755
Wrench. Automatic self-setting.....	B. F. Bennett.....	323,776	Aug. 4	515	145	32	619
Wringer:							
See Clothes-wringer. Mop-wringer.							
Wringer and mop. Combined.....	C. E. Snell.....	320,304	June 16	1826	485	31	1395
Wringer, washer, and mangle. Combined.....	C. Phillis.....	328,516	Oct. 20	1312	341	33	253
Writing-machine for the blind.....	W. H. Perkins.....	329,675	Nov. 3	332	85	33	563
Writing-pad cover.....	G. Hood.....	328,221	Oct. 13	926	941	33	176
Yarn chains. Machine for separating warp.....	A. Mungall.....	323,355	July 28	2667	711	32	508
Yarn for filling. Preparing colored.....	H. F. Straw.....	313,123	Mar. 3	109	.....	30	797
Yarn. Machinery for drying skeins of.....	J. R. Dearden.....	328,470	Oct. 20	1259	327	33	945
Yarn. Machinery for the manufacture of cotton.....	I. H. Russell.....	317,675	May 12	1002	960	31	713
Yarn. Manufacturing cotton.....	T. T. Abbot.....	317,608	May 12	917	235	31	697
Yarn of different colors. Machine for producing.....	J. G. and T. Fuyat.....	320,344	June 16	1901	501	31	1408
Yarn or thread for filling. Preparing.....	E. H. Eisenhart.....	325,241	Sept. 1	12	45	32	1017
Yoke adjuster. Neck.....	J. R. Dalton.....	331,377	Dec. 1	170	43	33	1028
Yoke clamp. Neck.....	E. Wolf.....	310,351	Jan. 6	260	71	30	49
Yoke. Neck.....	A. B. Arnold.....	320,524	June 23	2167	572	31	1465
Yoke. Neck.....	D. W. Clarke.....	331,376	Dec. 1	169	43	33	1028
Yoke. Neck.....	J. H. Markell.....	311,343	Jan. 27	1596	437	30	514
Yoke. Neck.....	J. H. Osborne.....	312,888	Feb. 24	1944	532	30	531
Yoke. Neck.....	P. Shatzer.....	332,013	Dec. 8	1134	286	33	1210
Yoke. Neck.....	A. D. Shepard.....	315,561	Apr. 14	823	217	31	153
Yoke or bar for double teams. Draft.....	W. W. Stockton and G. Phelps.....	332,366	Dec. 15	1646	431	33	1306
Yoke. Ox.....	H. Burns.....	313,052	Mar. 3	17	5	30	728
Yoke. Ox.....	W. H. Gibbens.....	331,631	Dec. 1	591	146	33	1101
Yoke strap. Neck.....	G. H. Lynds.....	327,958	Oct. 6	586	152	33	108
Yokes. Machine for making clip.....	P. Deffenemith.....	323,284	July 28	2552	679	32	489
Zinc. Decorating.....	G. H. Dittman.....	318,882	May 26	2621	.....	31	1027
Zincography.....	J. W. Barron.....	310,638	Jan. 13	612	169	30	122
Zincographic-press bed.....	J. Brooks.....	312,325	Feb. 17	1190	326	30	685
Zither.....	K. Arnold and J. J. Gerber.....	315,376	Apr. 7	534	137	31	97
Zylonite, &c. Apparatus for working.....	J. B. Edison.....	833,454	Dec. 29	8157	885	33	1587

ALPHABETICAL LIST OF DESIGNS.

Design.	Name.	No.	Date.	Official Gazette.	
				Volume.	Page.
Advertising-card	M. M. Dux	15,985	Mar. 24	30	1097
Advertising-sign	N. M. Harrison	15,991	Mar. 24	30	1097
Alto-rilievo	J. Pakenham	16,334	Oct. 13	33	118
Animal-trap frame	J. C. Gould	16,342	Oct. 20	33	239
Arm-rest support	T. A. Kochs	16,251	Sept. 15	32	1942
Badge	C. Holyland	16,197	Aug. 11	32	656
Badge	F. Neubert	15,725	Jan. 13	30	102
Badge	D. A. Reese	16,367	Nov. 3	33	504
Badge	W. Thegen	16,099	May 19	31	794
Badge	O. Wettstein	15,880	Feb. 24	30	664
Badge	J. H. Whitehouse	15,922	Mar. 3	30	778
Badge or breastpin	D. F. Adams	15,756	Feb. 3	30	348
Bag, pocket-book, &c., frame	L. B. Prahar	15,957	Mar. 10	30	896
Bar-handle	A. J. Manning	16,244	Sept. 8	32	1128
Bas-relief	A. Langenbahn, O. C. Evans, and C. Hiby	15,835	Feb. 17	30	562
Bas-relief of General Grant	E. Fox	16,257	Sept. 22	32	1360
Basque. Lady's	L. Tully	15,691	Jan. 6	30	2
Bedstead. Folding	Q. S. Backus	16,303	Aug. 18	32	778
Bell-gong	C. A. Bailey	16,044	Apr. 14	31	123
Belt. Ornamentation of a	L. Werner	16,158	July 7	32	2
Bluing-strainer	J. C. Nobles	15,979	Mar. 17	30	998
Bonbonnière	B. F. Adams	16,085	May 12	31	668
Boot or shoe. Rubber	E. B. Preston	16,208	Aug. 18	32	778
Bottle	T. B. Atterbury	16,159	July 14	32	140
Bottle	H. Berry	16,311	Oct. 6	33	2
Bottle	J. W. Donnell	16,016	Apr. 7	31	1
Bottle	M. L. Houts	16,331	Oct. 13	33	118
Bottle	H. Humbert	15,697	Jan. 6	30	2
Bottle	W. Pountney	16,028	Apr. 7	31	1
Bottle	E. C. Wadsworth	16,200	Aug. 11	32	656
Bottle-case	H. Worden	16,188	July 28	32	386
Bottle or jar	R. Crooks	16,069	May 5	31	521
Bottle or jug	W. Pountney	16,027	Apr. 7	31	1
Bottle or similar vessel	J. M. Gublin	15,910	Mar. 3	30	778
Bottle. Perfumery	D. R. Bradley	16,181	July 28	32	386
Bottle-stand	F. A. Ohrenschall	15,918	Mar. 3	30	778
Bottle-stand	F. A. Ohrenschall	16,152	July 7	32	2
Bracket	E. T. Harris	15,788	Feb. 10	30	453
Brush-handle	F. J. Kaldenberg	16,190	Aug. 4	32	522
Brush-handles. Ornamentation of	C. H. Thurber	16,100	May 19	31	794
Bucket-ear	J. H. Alexander	16,348	Oct. 27	33	359
Buckle	H. C. Johnson	16,123	June 2	31	1048
Buckle	H. C. Johnson and J. B. Moore	16,347	Oct. 20	33	239
Buckle-frame	L. C. Voorhees	16,046	Apr. 14	31	123
Burial-casket	J. Einsfeld	16,293	Sept. 29	32	1470
Burial-caskets. Ornamentation of	J. H. Mowen	16,387	Nov. 17	33	762
Burial-caskets. Ornamentation of	H. F. Quint and J. H. Mowen	16,418	Dec. 15	33	1270
Candy-box	B. Meyer	16,253	Sept. 15	32	1242
Candy or confectionery	A. Schwarzschild and N. Greenfield	16,029 16,030	Apr. 7	31	1
Candy. Stick	T. E. Copelin	15,851	Feb. 24	30	663
Cane or umbrella head	F. J. Kaldenberg	15,849	Feb. 17	30	562
Carbon filament	J. A. Hurdle	15,685	Jan. 6	30	2
Card. Back of a playing	I. Levy	16,217 16,218	Sept. 1	32	1014
Card-receiver	W. Harris	16,072	May 5	31	521
Card receiver and stand	M. S. Clark	16,405	Dec. 8	33	1142
Card. Show	F. Eberlein	16,246	Sept. 15	32	1242
Cards. Ace of spades for	H. M. Rosenbaum	16,075	May 5	31	521
Carpet	M. F. Beal	15,782 15,783	Feb. 10	30	453
Carpet	M. F. Beal	16,255	Sept. 22	32	1360
Carpet	J. B. Campbell	16,047	Apr. 14	31	124
Carpet	E. D. Chandler	15,967	Mar. 17	30	997
Carpet	A. Danby	15,713	Jan. 13	30	102
Carpet	H. Davis	16,003 16,004	Mar. 31	30	1209
Carpet	E. Fisher	15,680 15,681 15,692	Jan. 6	30	2
Carpet	E. Fisher	to 15,696 15,817	Jan. 6	30	2
Carpet	E. Fisher	to 15,829	Feb. 17	30	562
Carpet	E. Fisher	15,848	Feb. 17	30	562
Carpet	E. Fisher	16,247	Sept. 15	32	1242
Carpet	E. Fisher	16,258 to 16,267	Sept. 22	32	1360

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Design.	Name.	No.	Date.	Official Gazette.	
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Carpet	E. Fisher	16,390 to 16,392	Oct. 13	33	117
Carpet	J. L. Folsom	15,768 to 15,853	Feb. 3	30	348
Carpet	J. L. Folsom	15,859 to 15,882	Feb. 24	30	664
Carpet	J. L. Folsom	15,909 to 15,927	Mar. 3	30	778
Carpet	J. L. Folsom	15,962 to 15,968	Mar. 10	30	886
Carpet	J. L. Folsom	15,971 to 15,986	Mar. 17	30	997
Carpet	J. L. Folsom	16,005	Mar. 24	30	1097
Carpet	J. L. Folsom	15,682	Mar. 31	30	1210
Carpet	E. C. Frost	15,967	Jan. 6	30	2
Carpet	A. L. Halliday	15,989 to 16,019	Mar. 24	30	1097
Carpet	A. L. Halliday	16,038	Apr. 7	31	1
Carpet	A. L. Halliday	16,052	Apr. 14	31	133
Carpet	A. L. Halliday	16,107	Apr. 21	31	267
Carpet	A. L. Halliday	15,719 to 15,721	May 26	31	900
Carpet	A. Heald	15,742	Jan. 13	30	102
Carpet	A. Heald	15,768	Jan. 20	30	182
Carpet	O. Heinigke	15,859	Feb. 3	30	348
Carpet	O. Heinigke	15,911	Feb. 24	30	664
Carpet	O. Heinigke	15,973 to 15,975	Mar. 3	30	778
Carpet	O. Heinigke	15,992	Mar. 17	30	906
Carpet	H. Horan	16,249 to 16,250	Mar. 24	30	1098
Carpet	H. Horan	16,329 to 16,330	Sept. 15	32	1942
Carpet	H. Horan	15,860 to 15,865	Oct. 13	33	118
Carpet	H. Hunt	15,983	Feb. 24	30	664
Carpet	H. Hunt	15,866	Mar. 24	30	1098
Carpet	W. L. Jacobs	15,876 to 15,995	Feb. 24	30	664
Carpet	N. Komori	16,008 to 16,009	Mar. 24	30	1098
Carpet	N. Komori	16,041	Mar. 31	30	1210
Carpet	N. Komori	16,056	Apr. 14	31	123
Carpet	N. Komori	16,074	Apr. 21	31	267
Carpet	M. R. Loudon	16,049	May 5	31	521
Carpet	J. Lyall	16,361 to 16,362	Apr. 14	31	134
Carpet	J. Lyall	16,384	Nov. 3	33	504
Carpet	W. McCallum	15,977 to 15,978	Nov. 17	33	767
Carpet	W. McCallum	15,999	Mar. 17	30	998
Carpet	W. McCallum	16,024	Mar. 24	30	1098
Carpet	D. G. Melville	15,686	Apr. 7	31	1
Carpet	D. G. Melville	16,137	Apr. 21	31	267
Carpet	H. Mitchell	16,375 to 16,377	Jan. 6	30	1448
Carpet	J. B. Neil	16,011 to 16,014	Nov. 10	33	686
Carpet	J. Pegel	15,801 to 15,906	Mar. 31	30	1210
Carpet	J. Pegel	15,956	Feb. 10	30	453
Carpet	A. Petzold	15,793 to 15,795	Mar. 10	30	886
Carpet	A. Petzold	16,403	Feb. 10	30	453
Carpet	E. Poole	16,271	Dec. 1	33	1000
Carpet	E. Pyne	16,000	Sept. 22	32	1360
Carpet	O. Righter	15,952 to 15,964	Mar. 24	30	1098
Carpet	O. Righter	16,298 to 16,305	Mar. 10	30	886
Carpet	E. G. Sauer	16,272 to 16,274	Sept. 22	32	170
Carpet	E. G. Sauer	16,336	Sept. 22	32	1360
Carpet	F. E. Smith	16,001	Oct. 13	33	118
Carpet	F. E. Smith	16,050	Mar. 24	30	1098
Carpet	T. J. Stearns	16,063 to 16,064	Apr. 14	31	194
Carpet			Apr. 28	31	322

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Design.	Name.	No.	Date.	Official Gazette.	
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Carpet.....	T. J. Stoarns.....	16,098	May 19	31	794
Carpet.....	C. W. Swapp.....	15,700 to 15,709	Jan. 6	30	2
Carpet.....	C. W. Swapp.....	15,727 to 43,735	Jan. 13	30	102
Carpet.....	C. W. Swapp.....	15,840 to 15,846	Feb. 17	30	562
Carpet.....	C. W. Swapp.....	16,275 to 16,287	Sept. 22	32	1360
Carpet.....	C. W. Swapp.....	16,323 to 16,328	Oct. 13	33	117
Carpet-molding.....	I. Holzmark.....	15,832	Feb. 17	30	562
Carpet. Rag.....	H. Thiele.....	16,084	May 12	31	668
Carriage body. Baby.....	G. A. Ellis.....	16,224	Sept. 8	32	1128
Carriage-step.....	C. A. Babcock.....	15,757 to 15,762	Feb. 3	30	348
Carriage-step.....	J. M. Foote.....	16,132	June 30	31	1564
Carriage-step.....	F. V. Wooster.....	16,187	July 28	32	386
Carriage-step plate.....	J. H. Alexander.....	16,194 to 16,195	Aug. 11	32	655
Carriage-steps. Plate for.....	J. H. Alexander.....	16,222 to 16,223	Sept. 8	32	1128
Catalogue-cover.....	J. De Yongh.....	16,173	July 21	32	260
Chain. Jewelry.....	J. W. Simpson.....	16,307	Sept. 29	32	1470
Chain or bracelet.....	J. F. Imfeld.....	16,149	July 7	32	2
Chain. Watch.....	E. A. Cory.....	16,313	Oct. 6	33	2
Chain. Watch.....	W. H. Graham.....	16,061	May 12	31	668
Chain. Watch.....	R. F. Simmons.....	15,879	Feb. 24	30	664
Chair-back.....	F. F. Parker.....	16,395	Nov. 24	33	892
Charm. Jewelry.....	G. L. Ruff.....	16,448	Dec. 29	33	1502
Chenille.....	E. Held.....	16,212	Aug. 25	32	898
Chenille.....	H. Maul and F. Landenberger.....	16,366	Nov. 3	33	504
Chenille ornament.....	J. Dreyfuss.....	15,738	Jan. 20	30	182
Cigar-holder.....	F. W. Sigourney.....	16,125	June 9	31	1174
Clock-case.....	L. E. Jerome.....	16,062	May 12	31	668
Clock-case.....	A. S. Locke.....	15,976	Mar. 17	30	998
Clock-front.....	C. Kitschelt.....	15,997	Mar. 24	30	1098
Clock-stand.....	W. S. Weiss.....	16,157	July 7	32	2
Closet-hopper.....	H. W. Mansur.....	16,139	June 30	31	1564
Cloth. Enameled.....	U. McClintchle.....	16,096	May 19	31	794
Cloth fabric.....	C. S. Messinger.....	16,318	Oct. 6	33	2
Clothes-line block.....	F. T. Dana.....	16,359	Oct. 20	33	239
Coffee-mill hopper.....	J. W. Knott.....	16,332	Oct. 13	33	118
Coffin-handle.....	W. R. McComas.....	15,955	Mar. 10	30	896
Coffin ornament.....	C. B. Rogers and R. H. Burr.....	16,411	Dec. 8	33	1142
Cornice.....	F. Mankey.....	16,336	Oct. 27	33	360
Costume. Lady's.....	M. Turner.....	15,680	Jan. 6	30	2
Costume. Miss's.....	L. Tully.....	15,680	Jan. 6	30	2
Cruet.....	M. Ames.....	16,066	May 5	31	521
Curry-comb.....	W. P. Kellogg.....	15,954	Mar. 10	30	896
Curtain.....	R. P. Hemming.....	16,315	Oct. 6	33	2
Curtain fabric.....	J. Blair.....	16,034	Apr. 7	31	1
Curtain fabric.....	J. Ferguson.....	15,926	Mar. 10	30	896
Curtain fabric.....	J. Hartley.....	15,741	Jan. 20	30	182
Curtain fabric.....	J. Hartley.....	15,990	Mar. 24	30	1097
Curtain fabric.....	R. P. Hemming.....	16,108	May 26	31	920
Curtain fabric.....	P. McCaffray.....	15,765	Feb. 3	30	348
Curtain fabric.....	E. G. Nuffer.....	15,983	Jan. 6	30	2
Curtain fabric.....	E. G. Nuffer.....	15,877	Feb. 24	30	664
Curtain fabric.....	W. H. Roberts.....	15,919	Mar. 3	30	778
Curtain-pole or stair-rod.....	R. S. Gould.....	16,054	Apr. 21	31	267
Dipper or skimmer.....	W. W. Woolsey.....	16,338	Oct. 13	33	118
Dish.....	E. Gérard.....	16,414	Dec. 15	33	1270
Dish. Covered.....	I. W. Knowles, J. N. Taylor, and H. S. Knowles.....	15,914	Mar. 3	30	778
Dish-handle.....	C. E. Haviland.....	16,048	Apr. 14	31	124
Dish-handle.....	C. E. Haviland.....	16,060	Apr. 28	31	382
Dish or tureen.....	L. Sherry.....	16,193	Aug. 4	32	522
Dish. Vegetable.....	J. Barlow.....	16,310	Oct. 6	33	2
Dish. Vegetable.....	A. E. Hile.....	16,166	July 14	32	140
Dishes. Decorative pattern for.....	C. A. May.....	16,042	Apr. 14	31	123
Dishes. Decorative pattern for.....	W. Wood.....	16,043	Apr. 14	31	123
Domino.....	C. Selkirk.....	15,745	Jan. 20	30	182
Door-hanger.....	J. S. Buhner.....	16,179	July 21	32	260
Drawer-pull.....	C. Rowland.....	15,698	Jan. 6	30	2
Easel.....	E. B. Crocker.....	16,312	Oct. 6	33	2
Easel.....	G. R. Osborn.....	16,333	Oct. 13	33	118
Easel frame or holder.....	H. L. Palmer.....	16,199	Aug. 11	32	656
Exhibition-case.....	F. M. Garland.....	16,211	Aug. 25	32	898
Fabric.....	B. Galland.....	16,163	July 14	32	140
Fabric for seat-coverings.....	J. Hodgson.....	16,051	Apr. 21	31	267
Fan.....	J. H. Ferguson.....	16,360	Nov. 3	33	504
Fan.....	N. Plympton.....	15,878	Feb. 24	30	664
Fence-picket.....	G. Q. Adams.....	15,981 to 15,982	Mar. 24	30	1097
Filament.....	M. M. M. Slattery.....	15,830	Feb. 17	30	562
Filter or cooler. Body of water.....	A. Selkirk.....	16,404	Dec. 1	33	1000
Finger-ring.....	W. F. Crafts.....	15,711	Jan. 13	30	102

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Design.	Name.	No.	Date.	Official Gazette.	
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Fire-place front	E. A. Jackson	16,135 } 16,136 } 15,536 }	June 23	31	1448
Fire-place front	E. T. Schoonmaker	15,538 } to } 15,538 }	Feb. 17	30	568
Fire-place front	G. E. Sharpe	15,699	Jan. 6	30	1
Fire-place lining	J. A. Page	16,153	July 7	32	2
Fire-place lining. Ornamental	J. A. Page	16,131 } 16,132 }	June 16	31	1308
Fish-pail. Ornamentation of	S. Kilbourn	16,309	Aug. 18	32	778
Flange-union	R. T. Crane	16,160	July 14	32	140
Fork	T. Murray and F. W. Britton	16,169	July 14	32	140
Fork-handle	C. Witteck	16,412	Dec. 8	33	1142
Fringe	J. Zebbley	16,308	Sept. 29	32	1470
Fringe-heading	E. Memleb	16,097	May 19	31	794
Fringe or tassel block	W. Smith	15,726	Jan. 13	30	102
Gimp	J. Graham	16,383	Nov. 17	33	761
Gimp	J. C. Graham	16,091 } 16,092 }	May 19	31	794
Gimp	H. Wynkoop	16,076	May 5	31	521
Gimp	H. Wynkoop	16,144	June 30	31	1564
Gimp. Furniture	C. W. Jackson	15,912	Mar. 3	30	778
Glass sheet or pane	L. Heldt	15,972	Mar. 17	30	998
Glassware	G. and R. J. Beatty and G. W. Davis	16,371	Nov. 10	33	626
Glassware	J. E. Miller	16,409	Dec. 8	33	1149
Glassware	F. S. Shirley	16,172	July 14	32	140
Grate. Fire-place	J. A. Read and E. L. Calaly	16,133	June 16	31	1308
Grate. Fire-place	J. A. Read and E. L. Calaly	16,142	June 30	31	1564
Hair-clip	C. C. E. Van Alstine	16,143	June 30	31	1564
Handkerchief	C. Lambert	16,316	Oct. 6	33	2
Hanger	D. Nickel	15,917	Mar. 3	30	778
Hangings, &c	C. Wheeler	16,337	Oct. 13	33	118
Hardware. Ornamentation of	H. Jaworski	16,905	Aug. 18	32	778
Harness-mounting	J. M. Gwinnell	16,007	Mar. 31	30	1210
Harness. Ornamentation for	S. E. Tompkins and J. F. Goodsell	16,114	May 26	31	890
Hinge. Stable	W. C. Hanna, Jr.	16,349	Oct. 27	33	359
Hinge. Stable	W. C. Hanna, Jr.	16,391	Nov. 24	33	892
Hinges. Leaves of butt	F. W. Smith	16,065	Apr. 28	31	323
Hitching-post	J. F. Rogers	16,306	Sept. 29	32	1470
Hosiery	E. E. Seatchard	16,245	Sept. 8	32	1122
Hub-flanges. Ornamentation of	J. Maris	16,430 } to } 16,433 }	Dec. 29	32	1501
Hub shell-band	J. Maris	16,344	Oct. 20	32	229
Hubs. Ornamentation of wheel	J. Maris	16,395 } 16,396 }	Sept. 29	32	1470
Hubs. Ornamentation of wheel	J. Maris	16,363	Nov. 3	33	594
Hubs. Shell-band for wheel	J. Maris	16,168	July 14	32	140
Jackets. Ornamentation of boys'	F. Goerte	16,006	Mar. 31	30	1910
Jar or bottle	S. F. Scott and S. B. Bryar	15,813	Feb. 17	30	528
Jewelry-box	H. B. Sommer	16,254	Sept. 15	32	1949
Jewel-setting	G. Becker	16,392	Nov. 17	33	761
Knob and escutcheon. Door	S. S. Niles	16,015	Mar. 31	30	1210
Knob. Door	H. E. Russell, Jr.	15,754	Jan. 27	30	264
Lamp	C. Kitchelt	15,722	Jan. 13	30	102
Lamp-body	G. C. Thomas	16,078	May 5	31	521
Lamp-chimney	T. B. Atterbury	16,180	July 28	32	683
Lamp-chimney	H. Dietrich	15,852	Feb. 24	30	863
Lamp-chimney. Argand	W. Duffield	16,398	Dec. 1	33	1060
Lamp-chimney heater	A. Fraser	16,090	May 19	31	794
Lamp globe or shade	J. Webb	16,419 } 16,420 }	Dec. 15	33	1270
Lamp-reservoir	G. W. Woodward	15,781	Feb. 3	30	348
Lamps, &c. Pendant for	N. Jenkins	16,350	Oct. 27	33	359
Lamps, &c. Pendant for	W. R. Noé	16,355	Oct. 27	33	359
Lock-keeper	C. W. Robison	16,410	Dec. 8	33	1142
Medal	F. H. Chaffee and W. E. Colladay	15,925	Mar. 10	30	896
Medal	J. H. L. Nauwerck	16,219	Sept. 1	32	1014
Mold for jelly, &c	A. Joyce	16,174	July 21	32	960
Molding	F. Mankey	16,416	Dec. 15	33	1270
Molding	F. Mankey	16,429	Dec. 29	33	1501
Money-box	I. Brooke	15,983	Mar. 24	30	1097
Muff. Lady's	A. Platky	16,220	Sept. 1	32	1014
Nappy or dish	I. W. Knowles, J. N. Taylor, and H. S. Knowles	15,753	Jan. 27	30	264
Necklace	F. W. Moore	15,915	Mar. 3	30	778
Necktie	C. Dudgeon	16,017	Apr. 7	31	1
Necktie	J. R. Keiser	15,913	Mar. 3	30	778
Needle-work holder	F. Benjamin	15,812	Feb. 17	30	568
Oil-cloth	C. T. and V. E. Meyer	15,771 } to } 15,776 }	Feb. 3	30	348
Oil-cloth	C. T. and V. E. Meyer	16,090 } to } 16,093 }	Apr. 7	31	1
Oil-cloth	C. T. and V. E. Meyer	16,109 } to } 16,112 }	May 26	31	920
Oil-cloth	C. T. and V. E. Meyer	16,115 } to } 16,119 }	June 2	31	1048
Oil-cloth	C. T. and V. E. Meyer	16,268 } to } 16,270 }	Sept. 22	32	1300

Alphabetical list of designs—Continued.

Design.	Name.	No.	Date.	Official Gazette.	
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Oil-cloth.....	C. T. and V. E. Meyer.....	{ 16,351 to 16,354 16,483 }	Oct. 27	33	359
Oil-cloth.....	C. T. and V. E. Meyer.....	{ 16,354 to 16,447 }	Dec. 29	33	1501
Organ-case.....	L. K. Fuller.....	16,134	June 23	31	1448
Ornamentation of walls, &c. Surface.....	F. Mankey.....	{ 16,364 16,365 16,401 }	Nov. 3	33	504
Ornamentation of walls, &c. Surface.....	F. Mankey.....	{ 16,402 16,407 }	Dec. 1	33	1000
Ornamentation of walls, &c. Surface.....	F. Mankey.....	16,415	Dec. 8	33	1142
Ornamentation of walls, &c. Surface.....	F. Mankey.....	16,415	Dec. 15	33	1270
Package-holder.....	G. H. Benedict.....	15,736	Jan. 20	30	122
Pail. Lard.....	F. A. Walsh.....	15,847	Feb. 17	30	562
Panel.....	F. Mankey.....	{ 16,225 to 16,238 }	Sept. 8	32	1128
Panel.....	F. Mankey.....	16,237	Sept. 29	32	1470
Panel.....	F. Mankey.....	16,357	Oct. 27	33	360
Panel.....	F. Mankey.....	{ 16,399 16,400 }	Dec. 1	33	1000
Panel.....	F. Mankey.....	16,408	Dec. 8	33	1142
Panel for clock-front.....	A. C. Freeland.....	16,373	Nov. 10	33	626
Panel. Open-work.....	F. Mankey.....	{ 16,426 to 16,428 }	Dec. 29	33	1501
Paper-clips. Back for.....	A. E. Seltzer.....	16,398	Nov. 17	33	702
Paper-cutter.....	T. C. Brecht.....	15,764	Feb. 3	30	348
Paper lantern.....	G. Franke.....	16,390	Nov. 24	33	892
Paper. Ornamentation of.....	B. Dash.....	16,291	Sept. 29	32	1470
Paper. Ornamentation of.....	W. Demuth.....	16,256	Sept. 22	32	1360
Paper. Writing.....	Z. Crane, Jr.....	16,080	May 12	31	668
Parasol.....	W. A. Drown.....	16,068	May 12	31	668
Parasol-covering.....	A. G. Jennings.....	16,055	Apr. 21	31	267
Pedestal or stand for a statue.....	R. M. Hunt.....	16,167	July 14	32	140
Pencil-tip.....	A. C. Eggers.....	16,340	Oct. 26	33	239
Pendant.....	M. Bernhard.....	15,737	Jan. 20	30	122
Pendant.....	M. Bernhard.....	15,746	Jan. 27	30	264
Pendant.....	B. Dreyfus.....	15,739	Jan. 20	30	122
Pendant.....	B. Dreyfus.....	15,750	Jan. 27	30	264
Pendant.....	B. Dreyfus.....	15,766	Feb. 3	30	348
Pendant.....	B. Dreyfus.....	16,070	May 5	31	521
Pendant.....	C. A. Otto.....	15,687	Jan. 6	30	2
Picture-frames. Ornamentation of.....	T. Schreppel.....	16,028	Apr. 7	31	1
Picture-hanger.....	P. W. Miller.....	16,207	Aug. 18	32	778
Pipe-stem.....	F. R. Kaldenberg.....	16,095	May 10	31	794
Pitcher.....	E. Bennett.....	16,079	May 12	31	668
Plaque.....	O. Arnold.....	16,309	Oct. 6	33	2
Plaque.....	W. H. Brownell.....	15,881	Mar. 3	30	778
Plaque-frame.....	W. H. Brownell.....	15,850	Feb. 24	30	663
Plate. Oyster.....	E. Haviland.....	16,204	Aug. 18	32	778
Platter.....	E. Haviland.....	15,789	Feb. 10	30	453
Plow-beam.....	O. A. Essig.....	15,814	Feb. 17	30	562
Plow-hoe.....	M. L. Saunders.....	16,345	Oct. 20	33	239
Plush. Mohair.....	G. Böttcher.....	15,924	Mar. 10	30	896
Pulley-casing.....	E. C. Stearns.....	16,031	Apr. 7	31	1
Pulley-frame.....	D. J. Weir.....	16,113	May 26	31	920
Quilting-pattern for skirts.....	L. Dryfoos.....	16,292	Sept. 29	32	1470
Quilting-pattern for skirts.....	W. Koch.....	{ 16,175 16,176 }	July 21	32	260
Radiator leg or loop.....	G. W. Walker.....	15,779	Feb. 3	30	348
Range.....	W. S. Whitman.....	16,202	Aug. 11	32	656
Register front. Hot-air.....	A. Namur.....	{ 16,057 to 16,059 }	Apr. 21	31	267
Registers. Border-frame for.....	A. Namur.....	15,916	Mar. 3	30	778
Ring-setting.....	H. Huestis.....	16,126	June 16	31	1308
Rug.....	H. Finck.....	16,161	July 14	32	140
Rug.....	H. Finck.....	16,314	Oct. 6	33	2
Rug.....	W. Gilmour.....	15,786	Feb. 10	30	453
Rug.....	W. Gilmour.....	15,953	Mar. 10	30	896
Rug.....	R. P. Hemming.....	16,094	May 19	31	794
Rug.....	R. P. Hemming.....	{ 16,147 16,148 }	July 7	32	2
Rug.....	R. P. Hemming.....	{ 16,164 16,165 16,392 }	July 14	32	140
Rug.....	R. P. Hemming.....	{ 16,394 to 15,996 }	Nov. 24	33	892
Rug.....	P. McCaffrey.....	15,996	Mar. 24	30	1098
Rug.....	A. Petzold.....	{ 15,796 to 15,800 16,154 }	Feb. 10	30	453
Rug.....	A. Petzold.....	{ 16,154 to 16,156 }	July 7	32	2
Rug.....	A. Petzold.....	16,170	July 14	32	140
Rug.....	A. Petzold.....	{ 16,177 16,178 }	July 21	32	260
Rug.....	A. Petzold.....	{ 16,183 16,184 }	July 28	32	386
Rug.....	A. Petzold.....	16,192	Aug. 4	32	522

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Design.	Name.	No.	Date.	Official Gazette.	
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Rug	A. Petzold	16,214	Aug. 25	32	398
Rug	W. T. Smith	15,778	Feb. 3	32	348
Rug	W. T. Smith	15,980	Mar. 17	32	998
Sash-fastener frame	W. E. Sparks	15,755	Jan. 27	32	364
Satchel-frame	B. Rice	15,744	Jan. 20	32	182
Saucepan-handle	J. Finnegan	16,053	Apr. 21	31	267
Scarf	J. E. Keiser	15,994	Mar. 24	32	1036
Scarf, &c. Knot for	C. E. Page	16,417	Dec. 15	33	1270
Scarf. Made-up	T. J. Flagg	15,830	Feb. 17	32	562
Scarf. Neck	S. Salomon	15,688	Jan. 6	30	2
Scarf. Neck	R. Waterhouse	15,921	Mar. 3	30	778
Scarf. Ornamentation of a neck	R. Waterhouse	15,920	Mar. 3	30	778
Sewing-machine case	N. A. Hull	16,039	Apr. 14	31	123
Sewing-machine stands. Side frame for	L. B. Miller	16,040	Nov. 10	33	696
Settee-frame	J. C. Day	16,378	Jan. 13	30	102
Shade-roller bracket	S. Hartshorn	15,712	Apr. 14	31	123
Shawl or breast pin	D. Stone	16,037	Sept. 1	32	1014
Shot case. Sample	A. Euston	16,221	May 5	31	521
Sign	L. S. Grout	16,071	May 19	31	794
Sinks. Ornamentation of	I. J. Baxter	16,093	Aug. 25	32	896
Skates. Coupling-reach for roller	F. C. Miller	16,210	June 16	31	1306
Skating-rinks. Ornamentation of	H. C. De Baud and A. C. Couch	16,128 to 16,130	Jan. 13	30	102
Sled. Child's	F. C. Lorenz	15,714	May 12	31	666
Soap. Cake of	W. S. Vincent	16,083	Nov. 24	33	892
Sofa	A. Hausske	16,397	Sept. 15	32	1942
Sole. Rubber	L. F. Norman and E. E. Bennett	16,248	Apr. 7	31	1
Soles. Ornamentation of India-rubber	L. Elliott	16,025 16,014	Apr. 7	31	1
Spoon, fork, or knife handle	C. T. Grozjean	15,716 15,717	Jan. 13	30	102
Spoon-handle	C. T. Grozjean	15,785	Feb. 10	30	453
Spoon-handle	C. T. Grozjean	15,831	Feb. 17	30	562
Spoon-handle	C. T. Grozjean	16,210	Sept. 1	32	1014
Spoon-handle	G. W. Shiebler	15,808	Feb. 10	30	433
Spoon. Medicine	E. C. Underhill	16,033	Apr. 7	31	1
Spoon or analogous article	C. T. Grozjean	15,715	Jan. 13	30	102
Spoon or fork	C. T. Grozjean	15,784	Feb. 10	30	453
Springs. Bracket for	W. I. Bunker	15,984	Mar. 24	30	1097
Spur. Pattern for a	A. Buermann	16,388	Nov. 24	33	892
Stand	M. Eisner and J. Mendelson	16,359	Nov. 3	33	504
Stand	M. Eisner and J. Mendelson	16,380 16,381	Nov. 10	33	696
Statuary. Group of	J. Rogers	15,807	Feb. 10	30	453
Statuary. Group of	J. Rogers	16,369	Nov. 3	33	504
Statuette group	J. W. Ehninger	16,369	Nov. 24	33	892
Steam-trap case	E. C. Hawes	15,718	Jan. 13	30	102
Stool	J. Hofmann	15,790	Feb. 10	30	453
Stove	H. C. Bascom and T. S. Helster	16,145	July 7	32	2
Stove	J. Dwyer and J. W. Herrick	16,196	Aug. 11	32	635
Stove. Cannon	H. C. Bascom	16,423	Dec. 22	33	1394
Stove. Cook	J. L. Gobeille	16,201	Aug. 11	32	636
Stove. Cooking	H. C. Bascom	15,678 15,679	Jan. 6	30	2
Stove. Cooking	H. C. Bascom	15,763	Feb. 3	30	348
Stove. Cooking	H. C. Bascom	16,421 16,422	Dec. 15	33	1270
Stove. Cooking	J. L. Gobeille	15,740	Jan. 20	30	182
Stove. Cooking	W. H. Wilkinson	16,450	Dec. 29	33	1502
Stove. Cylinder	H. C. Bascom and A. Wemyss	16,494	Dec. 22	33	1394
Stove. Heating	A. O. Bement, M. D. Keyes, and C. E. Bement	16,372	Nov. 10	33	696
Stove. Heating	R. F. Schermerhorn and F. S. Weller	16,346	Oct. 20	33	929
Stove. Heating	R. F. Schermerhorn and F. S. Weller	16,396	Nov. 24	33	892
Stove. Heating	W. C. Smith	16,370	Nov. 3	33	504
Stove or range	W. H. Swanton	16,077	May 5	31	521
Stove or range. Cooking	A. Garbutt	16,189	Aug. 4	32	522
Stove. Parlor	H. C. Bascom	16,413	Dec. 15	33	1270
Stove. Parlor	C. Rathbone	16,635	Oct. 13	33	118
Stove. Parlor or heating	R. D. Andrews	15,810	Feb. 17	30	562
Surface ornamentation	F. Mankey	16,385	Nov. 17	33	762
Table-ware	J. Edwards	16,319	Oct. 13	33	117
Table-ware	E. Mountford	16,206	Aug. 18	32	778
Table-ware	F. A. Nouseat	16,062	Apr. 28	31	368
Tea-set	E. Haviland	16,073	May 5	31	521
Ten-pin	R. B. Cooley	16,068	May 5	31	521
Textile fabric	G. Streat	16,379	Nov. 10	33	696
Thermometer-back	C. H. Myers	16,140 16,141	June 30	31	1564
Thermometer-back	C. H. Myers	16,151	July 7	32	2
Tile floor or pavement	M. Wiese	15,720	Feb. 3	30	348
Tobacco-knife	C. R. Cousins	16,087	May 19	31	668
Toy bank	H. C. Hart	16,146	July 7	32	2
Toy savings-bank	E. L. Morris	16,190	June 2	31	1048
Toy savings-bank	J. Mueller	16,121	June 2	31	1048
Toy savings-bank	C. G. Shepard and P. Adams, Jr.	16,171	July 14	32	140
Tray	A. Ledig	16,150	July 7	32	2
Tray	J. F. Lockwood	16,191	Aug. 4	32	592
Tray. Candy	W. Loft	16,213	Aug. 25	32	898
Trimming	E. Kumke	16,252	Sept. 15	32	1942
Trolling-spoon	W. T. J. Lowe	16,198	Aug. 11	32	650
Trunk-iron	M. Maier	15,770	Feb. 3	30	348

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Design.	Name.	No.	Date.	Official Gazette.	
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Type.....	C. H. Beeler, Jr.....	16,425	Dec. 29	33	1501
Type.....	H. Brehmer.....	{ 15,747 to 15,749 }	Jan. 27	30	284
Type.....	H. Brehmer.....	16,002	Mar. 31	30	1209
Type.....	H. Brehmer.....	16,067	May 5	31	521
Type.....	W. F. Capitain.....	16,122	June 2	31	1048
Type.....	P. J. Dawkins.....	15,767	Feb. 3	30	348
Type.....	G. F. Giesecke.....	16,341	Oct. 20	33	239
Type.....	H. Ihlenburg.....	{ 15,751 to 15,752 }	Jan. 27	30	264
Type.....	H. Ihlenburg.....	16,294	Sept. 29	32	1470
Type.....	A. Little.....	16,124	June 9	31	1174
Type.....	A. Little.....	16,182	July 28	32	386
Type.....	E. C. Ruthven.....	16,449	Dec. 29	33	1502
Type-border.....	G. F. Giesecke.....	16,049	May 12	31	668
Type. Font of.....	H. Ihlenburg.....	16,343	Oct. 20	33	239
Type. Font of.....	A. Little.....	16,061	Apr. 28	31	382
Type. Font of.....	T. W. Smith.....	16,032	Apr. 7	31	1
Type. Font of printing.....	C. H. Beeler, Jr.....	15,811	Feb. 17	30	562
Type. Font of printing.....	W. F. Capitain.....	{ 16,101 to 16,106 }	May 26	31	920
Type. Font of printing.....	J. M. Conner.....	15,906	Mar. 10	30	896
Type. Font of printing.....	J. Graham.....	16,374	Nov. 10	33	626
Type. Font of printing.....	J. Guldenstine.....	15,787	Feb. 10	30	453
Type. Font of printing.....	C. E. Heyer.....	15,684	Jan. 6	30	2
Type. Font of printing.....	C. E. Heyer.....	15,710	Jan. 6	30	2
Type. Font of printing.....	H. Ihlenburg.....	15,791	Feb. 10	30	453
Type. Font of printing.....	W. W. Jackson.....	15,743	Jan. 20	30	182
Type. Font of printing.....	W. W. Jackson.....	15,792	Feb. 10	30	453
Type. Font of printing.....	J. G. Mengel, Jr.....	{ 15,793 to 15,794 }	Jan. 13	30	102
Type. Font of printing.....	J. K. Rogers.....	15,777	Feb. 3	30	348
Type. Font of printing.....	J. West.....	15,923	Mar. 3	30	778
Type. Font of printing.....	J. West.....	15,965	Mar. 10	30	896
Upholstery fabric.....	J. Ferguson.....	{ 15,815 to 15,816 }	Feb. 17	30	562
Upholstery fabric.....	D. B. Kerr.....	{ 15,833 to 15,834 }	Feb. 17	30	562
Vase.....	F. Kaiffer.....	16,228	Sept. 22	32	1360
Vehicle-body.....	B. A. Anghinbaugh and G. Mor- row.....	16,086	May 12	31	668
Ventilator-cap.....	J. J. Mooney.....	16,010	Mar. 31	30	1210
Waiter.....	D. M. Ireland.....	16,406	Dec. 8	33	1142
Walls, &c. Surface ornamentation of.....	F. Mankey.....	{ 16,239 to 16,243 }	Sept. 8	32	1128
Walls, &c. Surface ornamentation of.....	F. Mankey.....	{ 16,289 to 16,290 }	Sept. 22	32	1360
Wash-board.....	M. A. Smith.....	15,809	Feb. 10	30	453
Washing-machine rubbing-head.....	E. D. Mantonya.....	16,317	Oct. 6	33	2
Watch and clock dial.....	O. Kling.....	16,045	Apr. 14	31	123
Watch-case.....	G. W. Ladd.....	16,127	June 16	31	1308
Water-closet bowl and trap.....	A. Shaw.....	16,356	Oct. 27	33	359
Whiffletree-coupling.....	H. K. Porter.....	16,186	July 28	32	386
Window-guard.....	J. Pirkl.....	16,215	Aug. 25	32	896
Window-shade pull.....	J. G. Brothwell.....	{ 16,035 to 16,036 }	Apr. 14	31	123
Yoke. Axle.....	H. K. Porter.....	16,185	July 28	32	386

ALPHABETICAL LIST OF TRADE-MARKS.

Title.	Name.	No.	Date.	Official Gazette.	
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Abietine-gum, and salves, ointments, and other compounds made therefrom. Distillation from	Abietine Medical Company	12,854	Dec. 15	33	1270
Aerated beverage	C. Stoddart	11,947	Feb. 10	30	454
Aerated waters	G. T. Maginnis and W. J. Blackwell	12,561	Sept. 8	32	1128
Agricultural implements named	S. L. Allen & Co.	12,765	Nov. 1	33	762
Alcohol and its compounds. Wood-	L. A. Salomon & Bro	12,784	Nov. 17	33	762
Ale and certain named drinks. Ginger-	H. Hall	12,752	Nov. 10	33	626
Ale and stout	Read Brothers	12,866	Dec. 15	33	1270
Ale, beer, and other malt liquors	J. W. Koch	11,872	Jan. 20	30	182
Ale, beer, porter, and stout	W. Hogarth	11,890	Jan. 27	30	264
Ale. Ginger-	Klee, Coleman & Co	12,495	Aug. 11	32	656
Ale. Pale	T. McMullen & Co.	12,282	June 2	31	1048
Alkalies and bleaching-powder	Wigg Brothers & Steele	12,745	Nov. 3	33	504
Alloys used for coating metal articles	E. C. Converse	11,965	Feb. 24	30	664
Anæsthetic	N. Lentz	12,658	Oct. 13	33	118
Antidote for rheumatism	B. G. Amend	12,700	Oct. 27	33	360
Antiseptic dressing	S. T. Stephenson	12,768	Nov. 17	33	762
Application for chapped hands, face, &c	O. A. Alter	12,032	Mar. 24	30	1098
Astringent extracts	L. Brown	11,992	Mar. 10	30	896
Axes	J. C. O. Wetmore	12,392	July 7	32	2
Axes, hatchets, mattocks, adzes, picks, and grub-hoes	C. K. Hawkes	12,707	Oct. 27	33	360
Baking-powder	G. B. Burlingame	12,839	Dec. 15	33	1270
Baking-powder	W. P. Clotworthy	12,120	Apr. 14	31	124
Baking-powder	W. Condell	12,253	May 19	31	794
Baking-powder	G. F. Gilman	12,774	Nov. 17	33	762
Baking-powder	Jones Bros	12,190	Apr. 28	31	382
Baking-powder	H. J. Paddock	12,759	Nov. 10	33	626
Baking-powder	Potter, Parlin & Co	12,045	Mar. 24	30	1098
Baking-powder	Potter, Parlin & Co	12,046	Mar. 24	30	1098
Baking-powder	A. Richards & Co	12,535	Aug. 25	32	898
Baking-powder	Ricker, Crombie & McLaren	12,294	June 2	31	1048
Baking-powder	Thomson & Taylor Spice Company	12,870	Dec. 15	33	1270
Baking-powder	H. H. Warner	12,613	Sept. 29	32	1470
Balsam for cure of gout, rheumatism, &c	C. Pingel	12,781	Nov. 17	33	762
Balsam or salve	V. L'Epaltienier	12,338	June 23	31	1448
Bats, Indian clubs, and dumb-bells. Base-ball	Prior & Hilgenberg	11,977	Feb. 24	30	664
Bats. Lawn-tennis	A. G. Spalding & Brothers	11,958	Feb. 17	30	562
Bats of all kinds, balls, Indian clubs, croquet-mallets, and dumb-bells	A. G. Spalding & Brothers	11,957	Feb. 17	30	562
Beef. Fluid extract of	Liston Beef Company	12,101	Apr. 7	31	2
Beef. Liston's extract of	Liston Beef Company	12,102	Apr. 7	31	2
Beer	P. Best Brewing Company	12,739	Nov. 3	33	504
Beer	P. Best Brewing Company	12,740	Nov. 3	33	504
Beer. Barley	G. R. Wheeler and J. A. Herold	11,904	Feb. 3	30	348
Beer. Bottled	J. Wassmer	12,012	Mar. 10	30	896
Beer. Bottled lager	Anthony & Kuhn Brewing Company	12,033	Mar. 24	30	1098
Beer. Lager	G. Bechtel	12,767	Nov. 17	33	762
Beer. Lager	J. Brenner	12,667	Oct. 20	33	240
Beer. Lager	J. Ruppert	12,372	June 30	31	1564
Beer. White beer and condensed white	Reichenkron & Mielke	12,006	Mar. 10	30	896
Beers, porters, ales, and other malt liquors	C. Jacobsen	12,526	June 16	31	1308
Belting for machinery. Certain	New York Belting and Packing Company	11,897	Feb. 3	30	348
Belting. Oil-dressed and waterproofed flat leather	C. A. Schieren & Co	12,785	Nov. 17	33	762
Beverage known as Jamaica rum and maple-sugar. Compounded	Steinhardt Bros	11,900	Feb. 3	30	348
Beverage. Sparkling or effervescing	Rumford Chemical Works	12,050	Mar. 24	30	1098
Blacuits, crackers, and wafers	Holmes & Coutts	12,289	June 2	31	1048
Bitterer ansatz	A. W. Weismann	12,375	May 26	31	920
Bitters	E. Jeaerich	12,362	June 30	31	1564
Bitters	O. A. Krauss	12,496	Aug. 11	32	656
Bitters	E. Masqueller	12,800	Nov. 24	33	892
Bitters	R. H. McDonald Drug Company	12,680	Oct. 20	33	240
Bitters	A. M. Mnth	12,902	Dec. 29	38	1502
Bitters	C. Pingel	12,834	Dec. 8	33	1142
Bitters	C. F. Stadiger	12,908	Dec. 29	38	1502
Bitters	R. Sternsdorff	12,397	July 7	32	2
Blacking for leather	Swan & Howland	12,506	Aug. 11	32	656
Blanc-mange powder	A. F. Bird	12,115	Apr. 14	31	124
Blankets and lap-ropes	W. Ayres & Sons	12,635	Oct. 13	33	118
Blood-purifier and cancer-cure	R. G. Jones, S. Hill, and N. T. Jones	12,860	Dec. 15	33	1270
Blood-purifying compounds	Mexican Medicine Company	12,127	Apr. 14	31	124
Bone-black, ivory-black, &c	C. Ott & Co.	12,607	Sept. 29	32	1470
Boots and shoes	J. W. Rodgers	12,596	Sept. 22	32	1360
Boots and shoes	J. H. & F. H. Torrey	12,687	Oct. 20	33	240
Boots and shoes for men, boys, women, and children	P. Cox Shoe Manufacturing Company	11,879	Jan. 27	30	264
Boots and shoes for misses and children	P. Cox Shoe Manufacturing Company	12,203	May 5	31	522
Boots and shoes. Rubber, leather, and canvas	Goodyear Boot and Shoe Company	12,419	July 21	33	260

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Boots and shoes. Sectional metallic protectors for soles and heels of	J. Blakey	12,637	Dec. 15	33	1370
Boots and shoes. Sectional metallic protectors for the soles and heels of	J. Blakey	12,666	Oct. 20	33	240
Boots, shoes, and clothing. Rubber	Goodyear Rubber Company	12,038	Mar. 24	30	1298
Boots, shoes, and slippers	A. J. Cammeyer	12,334	June 23	31	1448
Boots, shoes, and slippers	A. J. Cammeyer	12,567	Sept. 15	32	1262
Boots, shoes, and slippers of all kinds	A. J. Cammeyer	12,668	Oct. 20	33	240
Boots, shoes, slippers, and like foot-wear	R. W. Peckham	12,307	June 9	31	1174
Braids. Silk	C. E. Bentley	12,241	May 19	31	794
Braids.	Nonantum Worsted Company	12,308	May 26	31	920
Braids and cords	Schloss & Sons.	12,501	Aug. 11	32	656
Braids and laces.	Balas Frères	12,508	Aug. 18	32	778
Brandy	Cook & Bernheimer	11,996	Mar. 10	30	896
Brick	S. Hamilton, Jr.	12,638	Oct. 13	33	118
Brooms	A. Stephen and F. B. Hemingway	12,504	Aug. 11	32	656
Bronze, copper, brass, Babbitt metal, and other metals	J. R. White	12,691	Oct. 20	33	240
Bronze-powders, bronze-liquids, and bronze-metal leaves	J. Marsching & Co.	11,217	Feb. 10	30	454
Brushes. Toilet	C. Loonen	12,214	May 5	31	522
Brushes. Whitewash	J. B. Carroll & Brother	12,543	Sept. 1	32	1014
Bustles. Spiral	Bradley, Voorhees & Day Manufacturing Company.	12,529	Aug. 2	32	898
Butter.	Ellis Brothers	12,884	Dec. 29	33	1502
Butter.	Jimenes, Haustedt & Co.	12,440	July 27	32	338
Butter.	J. Thallon	12,028	Mar. 17	30	998
Butter and cheese	Crew, Wiggery & Co.	12,530	Aug. 25	32	892
Buttons	I. E. Hirsch & Co.	12,097	Apr. 7	31	2
Buttons	Rothschild Bros & Co.	12,049	Mar. 24	30	1098
Candles	Procter & Gamble	12,477	Aug. 4	32	522
Candy	G. J. Blome	12,458	Aug. 4	32	522
Candy	Lindsey & Lefevre	12,533	Aug. 25	32	898
Candy	J. Morningstar	12,078	Apr. 7	31	2
Canned and preserved fruits, vegetables, oysters, &c	Thompson, Fry & Co.	11,850	Jan. 6	30	2
Canned beef or cooked compressed corned beef.	Fairbank Canning Company	12,814	Dec. 1	33	1000
Canned corn	S. N. Hyde & Son	12,639	Oct. 13	33	118
Canned fruits, vegetables, and oysters	E. W. Kriete	12,678	Oct. 20	33	240
Canned goods for food	J. W. Brown	12,586	Sept. 22	33	1360
Canned salmon	George & Barker	12,464	Aug. 4	32	522
Canned shelled fish	J. & E. A. Wyman	11,989	Mar. 3	30	778
Canned tomatoes	N. Bornner	12,472	Aug. 4	32	522
Canned vertebrate fish, as salmon	Kalink Packing Company	12,558	Sept. 8	33	1194
Caps or primers for blasting purposes	Metallic Cap Manufacturing Company.	12,758	Nov. 10	33	626
Caps or primers for blasting purposes	Metallic Cap Manufacturing Company.	12,779	Nov. 17	33	702
Caramels	G. E. Adams	12,698	Oct. 27	33	360
Cards. Christmas, New-Year, Easter, birthday, Scriptural, and other	J. and H. Castell	12,840	Dec. 15	33	1270
Cards. Playing	Perfection Card Company	11,873	Jan. 20	30	182
Cards. Playing	Russell & Morgan Printing Company.	12,644	Oct. 13	33	118
Cards. Playing	Russell & Morgan Printing Company.	12,645	Oct. 13	33	118
Cards. Playing	Russell & Morgan Printing Company.	12,646	Oct. 13	33	118
Cards. Playing	Russell & Morgan Printing Company.	12,647	Oct. 13	33	118
Cards. Playing	Russell & Morgan Printing Company.	12,648	Oct. 13	33	118
Cards. Playing	Russell & Morgan Printing Company.	12,649	Oct. 13	33	118
Cards. Playing	Russell & Morgan Printing Company.	12,682	Oct. 20	33	240
Cards. Playing	Russell & Morgan Printing Company.	12,683	Oct. 20	33	240
Cards. Playing	Russell & Morgan Printing Company.	12,824	Dec. 1	33	1000
Cards. Playing	Russell & Morgan Printing Company.	12,825	Dec. 1	33	1000
Cards. Playing	Russell & Morgan Printing Company.	12,826	Dec. 1	33	1000
Carpets, rugs, mats, and curtain fabrics	W. T. Smith	12,000	Mar. 10	30	896
Carpets. Tapestry	Sinason Bros. & Kurlbaum	12,505	Aug. 11	32	656
Carriage-tops. Dressing for	L. M. West	12,601	Sept. 22	32	1360
Carrriages, phaetons, buggies, spring-wagons, and other like vehicles	H. W. Davis & Co.	11,856	Jan. 13	30	102
Cartridges	Union Metallic Cartridge Company.	12,720	Oct. 27	33	360
Case containing selected instruments and standard remedies. Portable	Sun Chemical Company.	12,374	June 30	31	1564
Catarrah cure	Abietine Medical Company	12,747	Nov. 10	33	626
Cathartic cordial	Beall & Steele	12,402	July 14	32	140
Cement	F. G. Williams	12,013	Mar. 10	30	896
Cement for leather	H. G. Williams	12,875	Dec. 22	33	1294
Champagne	Carstairs, McCall & Co.	12,794	Nov. 24	33	1292
Cheese	Burrell & Whitman	12,794	Nov. 3	33	504
Cheese	W. P. Harvey & Co.	12,123	Apr. 14	31	194
Chewing-gum	Adams & Sons	12,175	Apr. 28	31	382
Chewing-gum	Adams & Sons	12,298	June 9	31	1174
Chewing-gum	Adams & Sons	12,343	June 30	31	1564
Chewing-gums	Danheiser Bros. & Co.	12,204	May 5	31	522
Chocolates	Huyler's	11,913	Feb. 10	30	454
Cholera preventive	G. C. Beresford	12,566	Sept. 15	32	1262
Cigarettes	L. Ginter	12,603	Sept. 29	32	1470
Cigarettes	J. Turnbull and T. Somerville	12,600	Sept. 22	32	1360

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Cigarettes and smoking-tobacco.....	L. Ginter	12,161	Apr. 21	31	268
Cigar-boxes	Worms & Cohn	12,764	Nov. 10	33	626
Cigars	J. R. Bravo & Son	12,614	Oct. 6	33	2
Cigars	J. R. Bravo & Son	12,615	Oct. 6	33	2
Cigars	Burk, Rich & Co.	11,964	Feb. 24	30	664
Cigars	G. Davidson	12,510	Aug. 18	32	778
Cigars	D. S. Erb	12,899	Dec. 29	33	1502
Cigars	Grommes & Ullrich	11,894	Feb. 3	30	348
Cigars	I. Harris	12,288	June 2	31	1048
Cigars	J. T. Isert	12,709	Oct. 27	33	360
Cigars	Kuttner & Co.	12,002	Mar. 10	30	896
Cigars	M. R. Pearsall	11,970	Feb. 24	30	664
Cigars	J. F. Portuondo.	12,499	Aug. 11	32	636
Cigars	J. F. Portuondo	12,500	Aug. 11	32	656
Cigars	J. F. Portuondo.	12,879	Dec. 29	33	1502
Cigars	F. W. Sigourney	12,295	June 2	31	1064
Cigars	C. Stoffregen	12,480	Aug. 4	32	522
Cigars	J. C. Toner	11,851	Jan. 6	30	2
Cigars	Van Pietersom Bros	11,852	Jan. 6	30	2
Cigars	J. P. Wallace, J. Purnell, and J. A. Wallace.	12,434	July 21	32	260
Cigars and cigarettes	Loud, Claridge & Co.	11,981	Feb. 24	30	664
Cigars and cigarettes	A. Shire	11,945	Feb. 10	30	454
Cigars and all other manufactured tobacco	J. De Susini	12,138	Apr. 14	31	124
Cigars, cigarettes, and manufactured tobacco	G. Fuchs	12,141	Apr. 14	31	124
Cigars, cigarettes, and smoking and chewing tobacco	Friend-Erskine Cigar Company	11,868	Jan. 20	30	182
Cigars, cigarettes, and smoking and chewing tobacco	C. L. Pratt	12,906	Dec. 29	33	1502
Cigars, smoking and chewing tobacco, and cigarettes	W. E. Barton	12,297	June 2	31	1048
Cleansing preparation in fluid form for garments, the toilet, &c.	T. E. Davis	12,796	Nov. 24	33	692
Cloth. Italian	W. Schütte & Co.	11,848	Jan. 6	30	2
Cloths and cassimeres for garments	E. T. Steel & Co.	11,849	Jan. 6	30	2
Clothing. Boys'	A. Shuman & Co.	12,805	Nov. 24	33	892
Clothing. Oiled	Adler Bros. & Co.	12,015	Mar. 17	30	998
Coal. Bituminous and semi-bituminous.	Castner & Co.	12,602	Sept. 29	32	1470
Coats, vests, and pantaloons	D. Marks & Son	12,497	Aug. 11	32	636
Cocaine. Tablets and other preparations containing	J. H. Allen	12,454	Aug. 4	32	522
Cocoanut. Desiccated	E. Dudley	12,545	Sept. 1	32	1014
Cocoanut. Preserved	Croft & Allen	12,359	June 30	31	1564
Cod-liver oil	Ansar, Harford & Co.	12,766	Nov. 17	33	762
Cod-liver oil. Certain preparations of	J. Carnick	12,177	Apr. 28	31	382
Cod-liver oil. Compound preparation of	S. J. Bendiner	12,133	Apr. 14	31	124
Cod-liver oil. Preparation of	G. W. Laird & Co.	11,866	Mar. 3	30	778
Coffee	Ricker, Crombie & McLaren	12,293	June 2	31	1048
Coffee and tea urns and pots	G. A. Jones	12,384	July 7	32	2
Coffee, either green or roasted	G. W. Earhart	12,096	Apr. 7	31	2
Coffee. Essence of	P. C. Tomson	12,145	Apr. 14	31	124
Coffee, ground or unground. Roasted	J. C. Barkley & Co.	12,226	May 12	31	668
Coffee. Raw	Ropes, Emmerton & Co.	12,166	Apr. 21	31	268
Coffee. Roasted	S. Bear's Sons	12,723	Nov. 3	33	504
Coffee. Roasted	Mayer Brothers & Co.	12,624	Oct. 6	33	2
Coffee. Roasted	Toledo Spice Company	12,881	Dec. 29	33	1502
Coffee. Roasted and ground	Maynard & Irwin	12,801	Nov. 24	33	892
Coffee. Roasted and ground	Chase & Sanborn	12,795	Nov. 24	33	892
Coffee, tea, and cocoa	Ceylon Tea & Coffee Agency	12,447	July 28	32	386
Coke	Balfour, Guthrie & Co.	11,907	Feb. 10	30	453
Collars, cuffs, and bosoms	G. N. March	12,832	Dec. 8	33	1142
Collars. Horse	J. B. Sickle's Saddlery Company	12,167	Apr. 21	31	268
Compound for cleaning clothing, fabrics, paint-work, &c.	H. R. Stevens	12,741	Nov. 3	33	504
Compound for removing blotches and freckles from the skin	J. B. Glenn	12,037	Mar. 24	30	1086
Compound for the cure of diseases of the head and throat	W. J. Bennet	12,892	Dec. 29	33	1502
Compound of red lead and oil adapted to remain in a soft or pasty condition.	J. A. Shephard	12,109	Apr. 7	31	2
Condiment. Bottled	S. F. Beer Company	12,869	Dec. 15	33	1270
Condition-powders	H. Johnson	12,817	Dec. 1	33	1000
Confectionery made of sugar, sirup, chocolate, and nuts	P. Wunderle	12,415	July 14	32	140
Cordial for summer complaints	L. H. Harris	11,896	Feb. 3	30	348
Cordial. Root and herb	Collins Brothers Drug Company	12,074	Apr. 7	31	2
Cords, lines, twines, and ropes	Silver Lake Company	12,631	Oct. 6	33	2
Cords, lines, twines, and ropes	Silver Lake Company	12,633	Oct. 6	33	2
Corn. Evaporated sugar	W. L. Amos	12,871	Dec. 22	33	1394
Corsets	T. C. Bates	11,878	Jan. 27	30	264
Corsets	J. Bowers	12,893	Dec. 29	33	1502
Corsets and other similar articles	Warner Brothers	12,132	Apr. 14	31	124
Cosmetic	L. C. Elae	12,877	Dec. 29	33	1502
Cosmetic for the face and hands	H. B. Shaw	12,411	July 14	32	140
Cosmetics	M. E. Thompson	12,052	Mar. 24	30	1098
Cotton cloths	Hyde & Burton	11,846	Jan. 6	30	2
Cotton fabrics	Horist Brothers	12,077	Apr. 7	31	2
Cotton fabrics. Black	Hyde & Burton	12,124	Apr. 14	31	124
Cotton. Ginned	Ralston Ginning Company	12,823	Dec. 1	33	1000
Cotton goods	Nashville Cotton Mills	12,410	July 14	32	140
Cotton goods. Bleached	Fall River Bleachery	12,907	May 5	31	522
Cotton goods. Bleached and unbleached woven	Massachusetts Cotton Mills	12,409	July 14	32	140
Cotton goods, bleached or unbleached. Woven	Massachusetts Cotton Mills	12,394	July 7	32	2
Cotton goods, gray, colored, and bleached, plain or twilled	L. Loomis	12,712	Oct. 27	33	360
Cotton goods, gray, colored, and bleached, plain or twilled	L. Loomis	12,713	Oct. 27	33	360
Cotton goods, gray, colored, and bleached, plain or twilled	L. Loomis	12,755	Nov. 10	33	626
Cotton pile fabrics. Corded	R. F. Shaen	12,650	Oct. 13	33	118
Cotton sheetings and shirtings. All kinds of	Jackson Company	12,187	Apr. 28	31	382
Cotton sheetings and shirtings. All kinds of	Jackson Company	12,188	Apr. 28	31	382
Cotton sheetings. Brown and bleached	Boott Cotton Mills	12,702	Oct. 27	33	360
Cotton sheetings. Brown and bleached	Boott Cotton Mills	12,749	Nov. 10	33	626
Cotton sheetings. Brown and bleached	Boott Cotton Mills	12,750	Nov. 10	33	626
Cotton, silk, and like manufacture. Top rolls for	F. L. Huston	12,098	Apr. 7	31	2

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Cotton stripes and plaids. Woven	S. A. Crozer & Son	12,897	Dec. 29	33	1503
Cotton textile fabrics. Certain	Hyde & Burton	12,162	Apr. 21	31	263
Cottons. Bleached, white, and colored	J. W. Woods	12,376	June 30	31	1564
Cottons. Printed, dyed, colored, bleached, and unbleached	J. S. Bernheimer & Bro.	11,948	Feb. 17	30	562
Cottonades	J. Scanlin & Son	12,237	May 12	31	668
Cough-drops	B. F. Raymond	12,804	Nov. 24	33	893
Cough-tea	I. Lange	12,266	May 26	31	980
Crackers	W. G. Wilson	12,260	May 19	31	794
Crackers, biscuits, jumbles, snaps, cakes, wafers, and kindred articles	Hetfield & Ducker	11,912	Feb. 10	30	453
Crackers, biscuits, wafers, cakes, and kindred articles	F. A. Kennedy Company	12,150	Apr. 21	31	267
Crackers, biscuits, wafers, cakes, and kindred articles	F. A. Kennedy Company	12,152	Apr. 21	31	268
Crackers, biscuits, wafers, cakes, and kindred articles	F. A. Kennedy Company	12,153	Apr. 21	31	268
Crackers, wafers, biscuits, cakes, and kindred articles	F. A. Kennedy Company	12,151	Apr. 21	31	268
Croup cure	A. P. Hoxsie	12,728	Nov. 3	33	504
Cuffs, collars, and shirt-fronts. Certain	Celluloid Novelty Company	12,157	Apr. 21	31	268
Cultivator	Burton Handle Company	11,891	Feb. 3	30	348
Cure for malarial diseases	G. V. Dunn	12,280	June 2	31	1049
Custard-powder	A. F. Bird	11,908	Feb. 10	30	453
Custard-powder	Goodall, Backhouse & Co.	12,797	Nov. 24	33	892
Cutlery	H. Boker & Co.	12,323	June 16	31	1308
Dental alloy	Keller Medicine Company	11,857	Jan. 13	30	169
Dental amalgam	J. R. B. Ransom and T. F. Randolph	12,452	July 28	32	366
Dental rubber	Boston Rubber Company	12,838	Dec. 15	33	1270
Dentifrice	B. W. Carpenter & Co.	12,655	Oct. 13	33	118
Dentifrice	Van Antwerp & Co.	12,250	May 19	31	794
Deodorizers and disinfectants	Koch Microcide Company	12,126	Apr. 14	31	194
Disinfectant	J. E. Davis	12,544	Sept. 1	32	1014
Disinfectant and insecticide	U. S. Importing Co.	12,481	Aug. 4	32	522
Disinfectant and moth-destroyer in cake, powder, and liquid form	W. H. H. Childs	11,994	Mar. 10	30	896
Disinfecting and deodorizing solution. Volatile	A. H. Kidney	12,232	May 12	31	663
Disinfecting or deodorizing compounds or fluids	J. A. Mathieu	12,267	May 26	31	920
Disinfecting or deodorizing compounds or fluids	J. A. Mathieu	12,292	June 2	31	1048
Distillation from Italian juniper-berries	Colburn, Birks & Company	12,725	Nov. 3	33	504
Distilled products of pine wood	Southern Chemical Company	12,228	Dec. 1	33	1000
Door checks and springs	Norton Door Check and Spring Company	12,903	Dec. 29	32	1502
Drawers, overalls, and pantaloons	J. Eisner	11,880	Jan. 27	30	264
Drawing materials	E. G. Soltmann	12,340	June 23	31	1448
Drawing materials and instruments. Certain named	E. G. Soltmann	12,439	July 21	32	260
Dress-goods. Ladies'	B. Priestley & Co.	12,581	Sept. 15	32	1342
Dress-shields	A. H. Brinkmann	12,345	June 30	31	1564
Dress-shields	A. H. Brinkmann	12,435	July 21	32	260
Dress-shields	Canfield Rubber Company	12,018	Mar. 17	30	998
Dress-shields	Canfield Rubber Company	12,244	May 19	31	794
Dress-shields	Frank & Gutmann	12,063	Mar. 31	30	1210
Dress-shields	Frank & Gutmann	12,182	Apr. 23	31	392
Drillings. Colored	Massachusetts Cotton Mills	12,385	July 7	32	2
Drugs and chemicals for dyeing. Certain named	Stamford Manufacturing Company	12,143	Apr. 14	31	124
Drugs and medicines. Certain named	Allen & H. nbury	11,853	Jan. 13	30	162
Drugs or medicines used for venereal diseases	F. Rogers	11,862	Jan. 13	30	162
Dust-pan	Steel Edge Dust Pan Company	12,609	Sept. 29	32	1470
Egg-powder	A. F. Bird	12,117	Apr. 14	31	124
Egg preserve and egg albumen. White and yellow of	S. B. Nachfolger	12,142	Apr. 14	31	124
Electric batteries	Leclanché Battery Company	12,516	Aug. 18	32	778
Elixir or bitters	H. V. Mansfeld-Böllner	12,895	Dec. 29	33	1502
Embrocation	Elliman Sons & Co.	12,617	Oct. 6	32	9
Essences and toilet-soap	Eastman & Brother	12,843	Dec. 15	33	1270
Exercising the fingers, hands, and wrists. Instruments for	J. Brotherhood	12,310	June 16	31	1308
Extract taraxicum, olive-oil, tincture of laudanum, and insect-powders. Fluid	Weismann & Muellenbach	12,030	Mar. 17	30	998
Eye-salve	Howard Bros.	12,514	Aug. 18	32	778
Fabrics for ladies' and children's dresses	G. Bossange	12,134	Apr. 14	31	124
Feathers for beds, pillows, and bolsters	Cold Blaat Feather Company	12,059	Mar. 31	30	1310
Felon-cure	I. Rosner	12,154	Apr. 21	31	263
Fencing. Barbed-wire	J. T. and J. C. Johnson	12,408	July 14	32	140
Fertilizer	C. L. Wright and R. T. Craighill	12,484	Aug. 4	32	522
Fertilizer. Manufactured	D. Scott & Bro.	12,632	Oct. 6	33	9
Fertilizers. Chemical	Farmers' Fertilizer Company	11,866	Jan. 20	30	162
Figs	J. A. Insigni	11,884	Jan. 27	30	264
Files and other receptacles for papers, documents, &c. Paper	Globe Files Company	12,184	Apr. 28	31	382
Files, desks, and other appliances and receptacles for papers, documents, &c. Paper	Globe Files Company	12,183	Apr. 28	31	383
Finger-rings and thimbles. Filled	H. Muhr's Sons	12,847	Dec. 15	33	1270
Fire-extinguisher. Hand-grenade	Harden Hand Grenade Fire Extinguisher Company	11,863	Jan. 27	30	264
Fish. Boneless	Caswell, Livermore & Co.	12,135	Apr. 14	31	124
Fish. Boneless cod	Caswell, Livermore & Co.	12,119	Apr. 14	31	124
Fish. Boneless preparation of salted	J. O. Procter, Jr.	12,220	May 5	31	582
Flavoring extracts and powders	M. Michaelis & Son	12,395	July 7	32	2
Flavors. Fruit	McMonagle & Rogers	12,386	July 7	32	2
Flour	Honston, Meeks & Co.	12,468	Aug. 4	32	522
Flour	Jimenes, Haustedt & Co.	12,040	Mar. 24	30	1038
Flour	Jimenes, Haustedt & Co.	12,041	Mar. 24	30	1038
Flour	Jones & Co.	12,191	Apr. 28	31	382
Flour	Landes, Beall & Co.	11,970	Feb. 24	30	664
Flour	Landes, Beall & Co.	11,971	Feb. 24	30	664
Flour	Lyon & Co.	12,592	Sept. 29	32	1360
Flour	St. Paul Roller Mill Company	11,889	Jan. 27	30	264
Flour	Saint Paul Roller Mill Company	12,108	Apr. 7	31	140
Flour	Sidle Fletcher Holmes Company	12,412	July 14	32	140
Flour	Urban & Co.	12,688	Oct. 20	33	240

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Flour.....	Urban & Co.....	12,689	Oct. 20	33	240
Flour. Corn.....	Glen Cove Manufacturing Company.....	12,485	Aug. 11	32	656
Flour. Corn.....	Glen Cove Manufacturing Company.....	12,486	Aug. 11	32	656
Flour. Corn.....	Glen Cove Manufacturing Company.....	12,487	Aug. 11	32	656
Flour. Corn.....	Glen Cove Manufacturing Company.....	12,488	Aug. 11	32	656
Flour or meal made of the entire wheat.....	Franklin Mill Company.....	12,773	Nov. 17	33	762
Flour. Patent.....	F. A. Johnston.....	12,383	July 7	32	2
Flour. Straight.....	F. A. Johnston.....	12,382	July 7	32	2
Flour. Wheat.....	Fisher & Wise.....	12,324	June 16	31	1308
Flour. Wheat.....	Fisher & Wise.....	12,348	June 30	31	1564
Flour. Wheat.....	L. Fusz and M. Backer.....	11,881	Jan. 27	30	264
Flour. Wheat.....	L. Fusz and M. Backer.....	11,882	Jan. 27	30	264
Flour. Wheat.....	H. A. Hayden.....	12,021	Mar. 17	30	998
Flour. Wheat.....	Oliver & Imboden Company.....	12,365	June 30	31	1564
Flour. Wheat.....	Oliver & Imboden Company.....	12,366	June 30	31	1564
Flour. Wheat.....	Page, Norton & Co.....	12,235	May 12	31	668
Flour. Wheat.....	C. A. Pillsbury & Co.....	12,677	Oct. 20	33	240
Flour. Wheat.....	C. A. Pillsbury & Co.....	12,681	Oct. 20	33	240
Flour. Wheat.....	C. A. Pillsbury & Co.....	12,697	Oct. 20	33	240
Flour. Wheat.....	R. F. Piper.....	12,283	June 2	31	1048
Flour. Wheat.....	S. Samper & Co.....	11,942	Feb. 10	30	454
Flour. Wheat.....	Steelton Flouring Mill Company.....	12,390	July 7	32	2
Flour. Wheat.....	Steelton Flouring Mill Company.....	12,433	July 21	32	260
Flour. Wheat.....	R. F. Piper.....	12,821	Dec. 1	33	1000
Flux for metals.....	B. F. Ruth.....	12,608	Sept. 29	32	1470
Fly-paper.....	Badger State Fly Paper Company.....	12,636	Oct. 13	33	118
Food for curing and fattening cattle.....	T. Massam, H. Clark, and S. Phillips, trustees.....	12,787	Nov. 17	33	762
Food for horses or cattle.....	Merrim & Rolph.....	12,471	Aug. 4	32	622
Food for infants.....	Fairchild Bros. & Foster.....	12,418	July 21	32	260
Food for infants and invalids.....	Wells & Richardson Company.....	12,358	June 30	31	1564
Food for poultry. Egg.....	S. S. Myers.....	11,975	Feb. 24	30	664
Food-preservative.....	J. P. Ober.....	12,534	Aug. 25	32	688
Foot-wear made of felt and felting material.....	Merino Shoe Company.....	12,737	Nov. 3	33	504
Forgings. Metal.....	J. H. Williams & Co.....	11,905	Feb. 3	30	348
Fruit-juices. Unfermented.....	A. Werner.....	12,276	May 26	31	920
Furnishing-goods and underwear.....	E. F. Bermingham.....	12,262	May 26	31	920
Furniture.....	Jaeger's Sanitary Woollen System Company.....	12,099	Apr. 7	31	2
Games. Materials for out-of-door.....	W. Bartlett & Sons.....	12,654	Oct. 13	33	118
Garments or articles made from Jersey-cloths and stockinets.....	T. C. Love.....	12,756	Nov. 10	33	626
Garments or articles made from Jersey-cloths and stockinets.....	T. C. Love.....	12,757	Nov. 10	33	626
Gin.....	C. Booth.....	12,459	Aug. 4	32	522
Gin.....	C. M. Roof.....	12,518	Aug. 18	32	778
Glass fruit-jars.....	Woodbury Glass Works.....	12,583	Sept. 15	32	1242
Gloves. Kid.....	C. T. Jones.....	11,984	Mar. 3	30	778
Gloves. Kid.....	Newman & Levinson.....	12,353	June 30	31	1564
Gloves. Kid.....	Roman Bros.....	12,222	May 5	31	522
Gloves. Kid.....	A. Traver.....	12,053	Mar. 24	30	1098
Gloves. Kid and lambskin.....	Stern Brothers.....	12,010	Mar. 10	30	896
Gold for dentists' use. Preparations of.....	S. S. White Dental Manufacturing Company.....	12,225	May 5	31	522
Grinding, sharpening, and polishing purposes. Certain articles for.....	J. C. Montgomerie.....	12,441	July 28	32	386
Grinding, sharpening, and polishing purposes. Certain articles for.....	J. C. Montgomerie.....	12,442	July 28	32	386
Grinding, sharpening, and polishing purposes. Certain articles for.....	J. C. Montgomerie.....	12,443	July 28	32	386
Guanos.....	R. L. Hickson.....	12,304	June 9	31	1174
Guanos.....	L. N. & J. S. Hopkins.....	12,708	Oct. 27	33	360
Guanos. Manufactured.....	G. L. Arps.....	11,906	Feb. 10	30	453
Gunpowder, explosive compounds, cartridges, and the like.....	Vereinigte Rheinisch-Westphälische Pulver-Fabriken.....	12,888	Dec. 29	33	1502
Guns and rifles. Shot.....	H. Boker & Co.....	12,156	Apr. 21	31	268
Hair and general toilet wash.....	D. L. Grant.....	11,870	Jan. 20	30	182
Hair-dressing.....	P. Amato.....	12,653	Oct. 13	33	118
Hair-dye.....	M. L. Kellogg.....	12,023	Mar. 17	30	998
Hair-pins. Spiral.....	H. G. Thompson & Sons.....	12,011	Mar. 10	30	896
Hair-restorative. Liquid.....	S. V. R. Ford & Co.....	12,557	Sept. 8	32	1128
Hair-tonic.....	Bloomington & Rich.....	12,344	June 30	31	1564
Hair-tonic.....	L. C. Morris.....	12,517	Aug. 18	32	778
Hair-tonic.....	J. Semmes.....	12,284	June 2	31	1048
Hams and cured meats. Smoked.....	Robe & Brother.....	12,221	May 5	31	522
Hardware. Stationers', builders', furniture, and miscellaneous.....	Reading Hardware Company.....	12,643	Oct. 13	33	118
Hardware. Stationers', builders', furniture, and miscellaneous.....	Reading Hardware Company.....	12,762	Nov. 10	33	626
Harmonicas.....	M. Hohner.....	12,492	Aug. 11	32	656
Harness sweat-collars, saddle-trees, &c.....	McClain & Anderson.....	12,642	Oct. 13	33	118
Harrow, clod-crushers, and levelers. Pulverizing.....	Nash & Bro.....	12,819	Dec. 1	33	1000
Harvester-cutters. Sections for.....	W. A. Wood Mowing and Reaping Machine Company.....	12,414	July 14	32	140
Hat-polish.....	C. W. Pratt.....	12,783	Nov. 17	33	762
Hats.....	Coöperative Hat Company of South Norwalk.....	12,751	Nov. 10	33	626
Hats.....	South Norwalk Hat Company.....	12,110	Apr. 7	31	2
Hats, caps, and bonnets.....	C. Trues.....	12,425	July 21	32	260
Hats for men and boys.....	E. Keith, A. B. Adam, A. E. Faxon, and O. R. Keith.....	12,559	Sept. 8	32	1128
Hats. Fur and wool.....	Knights of Labor Co-operative Hat Company.....	12,363	June 30	31	1564
Hats. Gentlemen's.....	E. Miller.....	11,885	Jan. 27	30	264
Hats. Men's and boys'.....	P. Lynch & Co.....	12,622	Oct. 6	33	2
Herbal remedies.....	S. and J. M. Kilmer.....	12,423	July 21	32	260

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Title.	Name.	No.	Date.	Official Gazette.	
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Hog products, lard, and meats	J. Morrell & Company	11,860	Jan. 13	30	102
Hominy. Crushed	Austin, Nichols & Co.	12,330	June 23	31	1448
Hops. Liquid preparation of	Hoptonic Company	12,797	Nov. 3	33	504
Horse-blankets	W. Ayres & Sons	12,456	Aug. 4	32	522
Horse-blankets	W. Ayres & Sons	12,457	Aug. 4	32	522
Hose. Canvas	J. McGregor	12,845	Dec. 15	33	1270
Hose. Rubber	Commercial Rubber Company	12,555	Sept. 8	32	1128
Hosiery	H. Schopper	12,597	Sept. 22	32	1360
Hubs. Wheel	Acme Hub Company	12,790	Nov. 24	33	893
Ice-boxes and refrigerators	S. A. Snyder	12,321	June 16	31	1308
Incubators and brooders	M. H. Strong	12,249	May 19	31	794
India pale ale, ale, porter, and brown-stout	Bergner & Engel Brewing Company	12,528	Aug. 25	32	898
Ink. Printing	F. H. Levey & Co.	12,306	June 9	31	1174
Ink. Writing	W. Allen & Co.	12,455	Aug. 4	32	522
Inks	H. C. Stephens	12,238	May 12	31	668
Iron and steel. Certain manufactures of	Seelohm & Dieckstahl	12,685	Oct. 20	33	240
Iron. Best quality galvanized sheet	J. Merry	12,625	Oct. 6	33	2
Iron of the second quality. Galvanized sheet	J. Merry	12,657	Oct. 13	33	118
Jewelry. Articles of	E. Naegle	12,128	Apr. 14	31	194
Jewelry. Imitation diamond	H. Muhr's Sons	12,846	Dec. 15	33	1270
Knitted articles of wearing-apparel	C. H. Wilcox	12,197	Apr. 28	31	352
Knives	Eagle Pencil Company	12,182	Apr. 14	31	194
Lamp-chimneys	G. A. Macbeth & Co.	12,163	Apr. 21	31	288
Lamp-chimneys	G. A. Macbeth & Co.	12,164	Apr. 21	31	288
Lamps	C. S. Unton	12,874	Dec. 22	33	1294
Lamps and lanterns	R. E. Dietz	12,448	July 28	32	386
Lamps and lanterns for bicycles, tricycles, and other velocipedes.	J. Lucas & Son	12,730	Nov. 3	33	504
Lamps. Copper or brass kerosene	A. Geiss and L. L. Kleine	12,361	June 30	31	1594
Lamps. Incandescent	C. M. Ball	12,538	Sept. 1	32	1014
Lamps. Reflector	D. R. Williams	11,954	Feb. 17	30	562
Lamps. Substitute for carbon filament in incandescent	C. M. Ball	12,539	Sept. 1	32	1014
Lanterns. Magic	J. Scheidig & Co.	12,851	Dec. 15	33	1270
Lard	W. J. Wilcox Company	12,251	May 19	31	794
Lead. White	Southern White Lead Company	12,111	Apr. 7	31	2
Lead. White	Southern White Lead Company	12,112	Apr. 7	31	2
Leather-dressing	Swan & Howland	12,536	Aug. 25	32	898
Leather. Kid	C. Levor	12,450	July 28	32	386
Leather. Kid and kid-finished	R. Young	12,882	Dec. 29	33	1502
Leather. Oak-tanned harness	W. Flaccus & Son	11,867	Jan. 20	30	182
Leather of all descriptions	J. S. Rockwell & Co.	11,898	Feb. 3	30	348
Leather. Shoe and glove	Booth & Kent	12,176	Apr. 28	31	382
Leather. Shoe-kid	Rose, McAlpin & Co.	12,582	Sept. 15	32	1242
Lemon ginger, a remedy for coughs, &c.	Collins Brothers Drug Company	12,087	Apr. 7	31	2
Lime-juice sirup or cordial	R. H. Pugh	12,479	Aug. 4	32	522
Liniment	J. F. Ballard	12,331	June 23	31	1448
Liniment	J. Boyle	12,073	Apr. 7	31	2
Liniment	R. J. Keen	12,778	Nov. 17	33	762
Liniment	A. C. Meyer	11,918	Feb. 10	30	454
Liniment	A. C. Meyer	12,004	Mar. 10	30	896
Liniment	W. N. Mullen	12,736	Nov. 3	33	504
Liniment	I. H. Peterson and H. Stevenius	12,626	Oct. 6	33	2
Liniment	S. L. Tucker	12,173	Apr. 21	31	268
Liniment, cough-sirup, liver-pellets, and corn-cure	C. W. Horn	12,901	Dec. 29	33	1502
Liniment. Family	G. L. Vrooman	12,131	Apr. 14	31	124
Liniment for external use	Jay Eye See Liniment Company	12,189	Apr. 28	31	382
Liniment or balsam	C. Speicher	12,503	Aug. 11	32	656
Linings and facings for ladies' apparel	C. D. Newell	12,068	Mar. 31	30	1210
Liquid for beautifying and preserving the nails	S. P. Zacharie	11,955	Feb. 17	30	562
Locketts, bracelets, and lace-pins	Waite, Mathewson & Co.	12,607	Nov. 24	33	892
Lotion for exterminating insects and curing their stings and for relieving pain	Sallade & Co.	12,880	Dec. 29	33	1502
Lozenges or other medicinal preparations in solid form	Burroughs, Wellcome & Co.	11,993	Mar. 10	30	896
Lubricators, ejectors, and cups	Pearless Oil Ejector Company	12,106	Apr. 7	31	2
Lye	P. C. Tomson	12,146	Apr. 14	31	124
Macaroni	A. Cusimano & Co.	12,034	Mar. 24	30	1098
Malt liquors	S. Allison & Sons	12,401	July 14	32	140
Mathematical instruments	C. Proebster, Jr.	12,370	June 30	31	1564
Meat-extract	Liebig's Extract of Meat Company	12,349	June 30	31	1564
Meat-extract	Liebig's Extract of Meat Company	12,350	June 30	31	1564
Meat-extract	Liebig's Extract of Meat Company	12,351	June 30	31	1564
Meats. Smoked	T. Stokes	12,523	Aug. 18	32	778
Medicinal compounds. Certain-named	J. H. Pullen	12,107	Apr. 7	31	2
Medicaments and homeopathic extracts and tinctures. Certain electro-homoeopathic	A. Sauter	12,400	July 7	32	2
Medicated astringents and sedatives	A. M. Wilson	12,835	Dec. 8	33	1142
Medicated plasters	Potter Drug and Chemical Co.	12,548	Sept. 1	32	1014
Medicated toilet preparation	R. P. Lickes	12,878	Dec. 29	33	1502
Medicinal beverage made from fermented milk	M. G. Dadiirrian	12,556	Sept. 8	32	1128
Medicinal bitters	N. Kieffer	11,975	Mar. 3	30	772
Medicinal composition. Certain named	C. Ringbauer	12,136	Apr. 14	31	124
Medicinal compound for diseases of the throat and lungs. Certain	B. S. Lauderbach	12,281	June 2	31	1048
Medicinal confections	F. A. Uhlich	12,224	May 5	31	522
Medicinal fluid extracts for internal use	Burroughs, Wellcome & Co.	11,863	Jan. 20	30	182
Medicinal food products	Reed & Carnrick	12,048	Mar. 24	30	1098
Medicinal plaster	Seabury & Johnson	12,062	Apr. 7	31	2
Medicinal powders	A. F. Bird	12,116	Apr. 14	31	124
Medicinal preparation for nervous affections	D. Dick	12,462	Aug. 4	32	522
Medicinal preparations for the cure of respiratory diseases	J. F. Churchill's Inhalants Company	12,656	Oct. 13	33	118
Medicinal remedies for children	D. B. Hand	12,303	June 9	31	1174
Medicinal specific for cold-sores	H. A. Robinson	12,081	Apr. 7	31	2
Medicinal tonic	R. E. Kunzé	12,100	Apr. 7	31	2
Medicine called a blood-renewer	R. Guinn	12,815	Dec. 1	33	1000

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Title.	Name.	No.	Date.	Official Gazette.	
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Medicine. Certain proprietary	J. E. Healy and C. Bigelow	11,967	Feb. 24	30	664
Medicine consisting of powdered drugs. Horse	G. B. Parsons	12,336	May 12	31	668
Medicine containing malt	Vogeler, Son & Co	12,742	Nov. 3	33	504
Medicine containing the extract of pine needles or sprouts	Gardner Pine Needle Extract Company.	12,403	July 14	32	140
Medicine. Corn	E. E. Howard	12,856	Dec. 15	33	1270
Medicine. Corn	E. E. Howard	12,859	Dec. 15	33	1270
Medicine. Cough	E. M. Evans	12,345	May 19	31	794
Medicine for certain named diseases	H. Knorr	12,393	July 7	32	2
Medicine for certain named diseases, to be used externally and internally.	C. A. M. Pulliam	12,026	Mar. 17	30	998
Medicine for cholera, diarrhea, colic, and like diseases	C. R. Harrington	12,019	Mar. 17	30	998
Medicine for cure of stomach, liver, and kidney diseases.	H. C. Paige	12,318	June 16	31	1306
Liquid					
Medicine for diseases of the blood and nerves	S. E. Martin	12,312	June 16	31	1306
Medicine for diseases of the throat and lungs	H. Button	12,242	May 19	31	794
Medicine for diseases of the throat and lungs	H. M. O. Neil	12,195	Apr. 28	31	382
Medicine for diseases of the throat and lungs	H. R. S. Van Rensselaer	12,174	Apr. 21	31	268
Medicine for horses	Dalmo Company	12,531	Aug. 25	32	896
Medicine for internal use. Fluid	Potter Drug and Chemical Company.	11,874	Jan. 20	30	182
Medicine for neuralgia and rheumatism	C. L. Otrich	12,060	Apr. 7	31	2
Medicine for purifying the blood	Scott Manufacturing Company	11,944	Feb. 10	30	454
Medicine for stomach complaint	T. J. Thompson	12,445	July 28	32	386
Medicine for the cure of cramps	L. H. Harris	11,895	Feb. 3	30	346
Medicine for the cure of diseases of the stomach and bowels.	J. J. Six Dykstra	12,660	Oct. 13	33	118
Medicine for the cure of impure blood or deranged bowels.	A. Danner	12,335	June 23	31	1448
Liquid					
Medicine for the cure of neuralgia and like diseases	J. S. Nicolds	12,716	Oct. 27	33	360
Medicine for the cure of rheumatism and like diseases	Swamp Angel's Rheumatic Cure Manufacturing Company.	12,329	June 16	31	1306
Medicine for the cure of toothache	W. W. and C. E. Freeman and W. I. Newlove.	11,982	Mar. 3	30	778
Medicine for the prevention and cure of seasickness	H. L. Moody	12,104	Apr. 28	31	382
Medicine for the treatment of thrush or nursing sore mouth.	Howard Bros	12,775	Nov. 17	33	762
Medicine in capsules	E. Jeserich	12,213	May 5	31	522
Medicine, the vehicle of which is in granular form	A. C. Chanteaud	12,346	June 30	31	1564
Medicine to be used externally and internally	C. L. Hammond	12,076	Apr. 7	31	2
Medicines. Certain named	F. A. Richter & Co	12,388	July 7	32	2
Medicines. Certain named proprietary	L. Gerstle	12,230	May 12	31	668
Milk. Condensed	Borden Condensed Milk Company	12,855	Dec. 15	33	1270
Milk, cream, butter, and cheese	Pikesville Dairy Company	12,144	Apr. 14	31	1274
Mineral-spring water. Natural	Bullard & Foster	12,202	May 5	31	522
Mineral water. Certain natural	J. P. Forbes and F. A. Plaisted	12,209	May 5	31	522
Mineral water. Certain natural	L. W. McConnell	12,217	May 5	31	522
Mineral water. Natural	St. Clair Mineral Springs Company.	12,599	Sept. 22	32	1360
Mirror-plates	S. Bache & Co	12,299	June 9	31	1174
Mowing and reaping machines and grain-binders	W. A. Wood Mowing and Reaping Machine Company.	12,399	July 7	32	2
Music-boxes	C. Paillard & Co	12,760	Nov. 10	33	626
Mustard	H. Wichert	12,526	Aug. 18	32	778
Nails	Plume & Atwood Manufacturing Company.	12,219	May 5	31	522
Nails and similar products made from wire	Wire Goods Company	12,829	Dec. 1	33	1000
Naphtha of 62° to 64° gravity Baumé	Scotfield, Shurmer & Teagle	11,943	Feb. 10	30	454
Nasal suppositories	Vita Company	12,274	May 26	31	920
Needles for hand-sewing	W. Bartlett & Sons	12,584	Sept. 22	32	1360
Needles, sharps and between	A. A. Wright	12,537	Aug. 25	32	898
Needles, toilet-pins, bodkins, and crochet-hooks	W. Bartlett & Sons	12,585	Sept. 22	32	1360
Nerve-tonic	J. S. Pemberton	12,257	May 19	31	794
Nervine	Scotch Oats Essence Company	12,633	Dec. 8	33	1142
Neuralgia-drops	G. G. Steketee	11,046	Feb. 10	30	454
Newspapers	C. W. Leffingwell	12,193	Apr. 28	31	382
Non-conducting compound for covering heated surfaces	W. Berkefeld	12,891	Dec. 29	33	1502
Oars, sweeps, and sculls	New York Boat Oar Company	12,129	Apr. 14	31	124
Oars, sweeps, and sculls	New York Boat Oar Company	12,171	Apr. 21	31	268
Oil and axle-grease Lubricating	Meriam & Morgan Paraffine Company.	12,256	May 19	31	794
Oil. Cotton-seed	Seitz & Gould	12,008	Mar. 10	30	696
Oil-dressing for leather and fabrics	Canton Paint and Oil Company	12,169	Apr. 21	31	268
Oil for illuminating purposes. Petroleum	Cheesebrough Manufacturing Company.	12,876	Dec. 29	33	1509
Oil for lighting purposes. High-test carbon	Central Oil Company	12,460	Aug. 4	32	522
Oil. High-test carbon	I. Davis	12,671	Oct. 20	33	940
Oil. Hoof	A. Spietaler	12,373	June 30	31	1564
Oil. Illuminating	Acme Oil Company	12,309	June 16	31	1306
Oil. Illuminating, burning, and lubricating	H. W. Peabody & Co	12,905	Dec. 29	33	1502
Oil. Illuminating coal or kerosene	A. B. Morton & Sons	12,802	Nov. 24	33	892
Oil. Olive	S. Rae & Co	12,746	Nov. 3	33	504
Oil preparation for alleviating pain caused by nervous diseases.	I. E. Porter	12,605	Dec. 15	33	1270
Oil-producing seeds and their named products	W. A. Hazall	12,325	June 16	31	1308
Oils refined from petroleum. Illuminating	Sone & Fleming Manufacturing Company.	12,313	June 16	31	1308
Oils refined from petroleum. Illuminating	Sone & Fleming Manufacturing Company.	12,314	June 16	31	1308
Oil. Refined petroleum	A. F. Sise	12,519	Aug. 18	32	778
Ointment	J. D. Topp	12,551	Sept. 1	32	1014
Ointment for the cure of piles, and a remedy for lung diseases.	W. S. Norris	12,546	Sept. 1	32	1014
Ointment or cosmetic	F. C. Renner	12,339	June 23	31	1448
Ointments, plasters, and liniments	T. L. Clingman	11,909	Feb. 10	30	453
Ointments, plasters, pills, medicated liquids, and soaps	Ichthyol-Gesellschaft Cordes Hermann & Co.	12,816	Dec. 1	33	1000
Opera-glasses	J. Scheldig & Co	12,852	Dec. 15	33	1270

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Title.	Name.	No.	Date.	Official Gazette.	
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Oranges, lemons, and other citric fruit	J. A. Harris	12,674	Oct. 30	33	940
Organ. Mechanical	M. Gally	11,869	Jan. 30	30	183
Organ or organette and music therefor. Small mechanical	M. Gally	12,000	Mar. 10	30	896
Oysters	W. K. Reeme	11,877	Jan. 30	30	183
Pails and analogous vessels. Lard	F. A. Walsh & Co.	11,902	Feb. 3	30	348
Pails and tubs. Wooden	Menscha Wooden Ware Company ..	12,714	Oct. 27	33	360
Paint	New York Fire Proof Paint Company ..	12,715	Oct. 27	33	360
Paint called hygienic calcimine	Rubber Paint Company of Cleveland, Ohio ..	12,272	May 26	31	920
Paint. Prepared	Hartmann, Le Doux & Maecker ..	12,336	June 23	31	1448
Paints	J. Lucas	12,246	May 19	31	794
Paints	J. Lucas	12,247	May 19	31	794
Paints and paint compounds for protective and preservative purposes	Paraffine Paint Company ..	12,130	Apr. 14	31	124
Paints. Prepared	Hartmann, Le Doux & Maecker ..	12,185	Apr. 28	31	328
Pamphlets and books	F. Turner	12,652	Oct. 13	33	118
Paper bags	Western Paper Bag Company ..	12,031	Mar. 17	30	998
Paper. Fine writing	Worthy Paper Company ..	12,198	Apr. 28	31	328
Paper for indicating fraudulent changes in writing. Safety ..	Patent Papier Fabrik zu Penig ..	12,308	June 9	31	1174
Paper for photographic purposes	A. F. Silomon	12,319	June 16	31	1308
Paper for photographic purposes. Albumenized	Scovill Manufacturing Company ..	12,684	Oct. 30	33	240
Paper-hangings. Wall and ceiling	F. Beck & Co.	12,240	May 19	31	794
Paper. Matrix	Crocker Manufacturing Company ..	12,284	May 26	31	920
Paper of all kinds. Writing	Z. Crane, Jr., & Bro.	12,812	Dec. 1	33	1000
Paper. Printing, writing, and wrapping	J. W. Butler Paper Company ..	12,515	Aug. 18	33	778
Paper. Printing, writing, and wrapping	J. W. Butler Paper Company ..	12,768	Nov. 17	33	782
Paper. Toilet	H. J. Howlett	12,066	Mar. 31	30	1210
Paper. White or light-colored printing, writing, and wrapping ..	J. W. Butler Paper Company ..	12,333	June 23	31	1448
Paper. Writing	Chapin & Gould	11,949	Feb. 17	30	562
Paper. Writing	East Hartford Manufacturing Company ..	12,842	Dec. 15	33	1270
Paper. Writing	Valley Paper Company ..	12,273	May 26	31	920
Peanuts	P. D. Gwaltney	12,473	Aug. 4	32	522
Peanuts	P. D. Gwaltney	12,474	Aug. 4	32	522
Peanuts	Norfolk Storage Company ..	12,738	Nov. 3	33	504
Peanuts	Norfolk Storage Company ..	12,780	Nov. 17	33	762
Pegs for boots and shoes	Kearsarge Peg Company ..	12,192	Apr. 28	31	328
Pencils and pen-holders. Lead	Eagle Pencil Company ..	12,090	Apr. 7	31	2
Pencils and pen-holders. Lead	Eagle Pencil Company ..	12,095	Apr. 7	31	2
Pencils. Lead	Eagle Pencil Company ..	12,091	Apr. 7	31	2
Pencils. Lead	Eagle Pencil Company ..	12,092	Apr. 7	31	2
Pencils. Lead	Eagle Pencil Company ..	12,093	Apr. 7	31	2
Pencils. Lead	Eagle Pencil Company ..	12,094	Apr. 7	31	2
Pens. Aluminum	W. D. Marvel	12,886	Dec. 29	33	1502
Pens and lead-pencils. Steel	Jansen, McClurg & Co.	12,231	May 12	31	668
Pens. Metallic	Esterbrook Steel Pen Manufacturing Company ..	12,227	May 12	31	668
Pens. Metallic	Esterbrook Steel Pen Manufacturing Company ..	12,228	May 12	31	668
Peptonized meat	Compagnie Peptones de Vienne du Docteur Kochs, (Société Anonyme) ..	11,892	Feb. 3	30	348
Perfume	Bean & Harbut	11,991	Mar. 10	30	896
Perfumes	C. B. Woodworth & Sons ..	12,690	Oct. 20	33	940
Perfumery	F. R. Arnold & Co.	12,056	Mar. 31	30	1210
Perfumery	Lorenz Bros	12,042	Mar. 24	30	1086
Perfumery	Lorenz Bros	12,043	Mar. 24	30	1086
Perfumery	J. B. Weaver and H. Schandeln ..	11,887	Jan. 27	30	264
Perfumery	J. B. Weaver and H. Schandeln ..	11,888	Jan. 27	30	264
Perfumery and perfumed preparations for the toilet ..	C. A. and C. P. Gosnell ..	12,420	July 21	32	260
Perfumery and toilet-soaps	Eastman & Brother ..	11,966	Feb. 24	30	664
Petroleum for illuminating purposes	Meisner, Ackermann & Co.	12,451	July 28	32	326
Petroleum. Refined	Chester Oil Company ..	12,252	May 19	31	794
Petroleum. Refined	H. W. Peabody & Co.	12,563	Sept. 8	32	1126
Petroleum. Refined	Pratt Manufacturing Company ..	11,886	Jan. 27	30	264
Physic	J. J. Six Dykstra	12,160	Apr. 21	31	968
Piano-fortes	T. F. Scanlan	12,629	Oct. 6	33	2
Piano-fortes	T. F. Scanlan	12,630	Oct. 6	33	2
Pianos	T. F. Scanlan	12,502	Aug. 11	32	656
Pianos	Whitney & Currier ..	12,259	May 19	31	794
Picture-frames. Covered	L. Pattberg & Bros ..	11,916	Feb. 10	30	454
Pills	W. H. Comstock	12,277	June 2	31	1048
Pills	W. H. Comstock	12,278	June 3	31	1048
Pills. Leucorrhoea	F. G. Morris	12,606	Sept. 29	32	1470
Plasters. Corn	J. B. A. De Winter ..	11,910	Feb. 10	30	453
Plows	A. G. Starke	12,113	Apr. 7	31	2
Plows	A. G. Starke	12,413	July 14	32	140
Plows and plow-castings	Wrenn, Whitehurst & Co.	12,014	Mar. 10	30	896
Plushes and velvets	S. C. Lister	12,440	July 28	32	326
Pork. Cured	G. Fowler	12,140	Apr. 14	31	124
Portable arms, as guns, revolvers, swords, &c.	Ostheimer Brothers ..	12,270	May 26	31	920
Powders for the cure of cholera in animals and fowls ..	H. Copeland	12,347	June 30	31	1564
Precious stones. Artificial	E. E. & A. W. Kipling ..	12,494	Aug. 11	32	656
Preparation for asthma, catarrh, hay-fever, and certain other diseases. Solid	H. H. Warner	11,903	Feb. 3	30	348
Preparation for lung and throat diseases	Abietine Medical Company ..	12,748	Nov. 10	33	626
Preparation for the cure of paralysis and mental diseases ..	A. Thompson	12,565	Sept. 8	32	1128
Preparation for the skin	H. Teats	12,686	Oct. 20	33	240
Preparations for the cure of venereal and urinary diseases. Liquid	F. Kirsch	12,885	Dec. 29	33	1502
Preparations for the laundry. Certain named	A. M. Ross & Co.	12,222	May 5	31	522
Preserve-jars	T. W. Synnott and C. D. Macqueen ..	11,979	Feb. 24	30	664

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Title.	Name.	No.	Date.	Official Gazette.	
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Printing-presses.....	Babcock Printing Press Manufacturing Company.	12,552	Sept. 8	32	1128
Prunes.....	G. A. and C. F. Fleming.	12,672	Oct. 20	33	240
Prunes. Dried.....	G. A. and C. F. Fleming.	12,706	Oct. 27	33	360
Purgative compounds. Liquid.....	California Fig Syrup Company	12,118	Apr. 14	31	124
Raisins.....	W. T. Coleman & Co.	12,669	Oct. 20	33	240
Ranges and furnaces.....	J. J. Richardson.	12,371	June 30	31	1564
Razors.....	C. Klauberg & Bros.	12,125	Apr. 14	31	124
Razors, razor-guards, razor-strops, and shaving-cream.....	A. V. Brokhalne	12,417	July 21	32	260
Razors, scissors, shears, pocket and other knives.....	Reinhard, Dinkelmann & Co.	12,627	Oct. 6	33	2
Refrigerators.....	A. J. Chase	11,864	Jan. 20	30	182
Refrigerators.....	F. M. Hall	12,637	Oct. 13	33	118
Remedies for coughs, colds, &c.....	E. F. Hyatt	12,798	Nov. 24	33	892
Remedies, medicines compounded by prescription, and official and pharmaceutical preparations. Proprietary.....	R. Keys.	12,753	Nov. 10	33	628
Remedy. Certain named.....	S. W. Neuer	12,444	July 28	32	386
Remedy for catarrh.....	O. F. Burton	12,058	Mar. 31	30	1210
Remedy for catarrh and for bronchial affections.....	J. H. Macdonough	12,623	Oct. 6	33	2
Remedy for catarrh, hay-fever, colds, &c.....	D. O. Wilhelm	12,342	June 23	31	1448
Remedy for certain indicated diseases.....	Farbwerke, vormals Meister, Lucius & Brünig.	12,511	Aug. 18	32	778
Remedy for certain named diseases.....	F. R. Hadley	12,405	July 14	32	140
Remedy for certain named diseases.....	Stuart Manufacturing Company	12,718	Oct. 27	33	360
Remedy for certain named diseases.....	Wooden & Melvill	12,527	Aug. 18	32	778
Remedy for chills and a liniment.....	J. L. Able	12,789	Nov. 24	33	892
Remedy for coughs, colds, &c.....	H. W. Little	12,233	May 12	31	668
Remedy for diseases arising from disordered condition of the stomach, liver, and bowels.....	Iler & Morris	12,407	July 14	32	140
Remedy for disorders of the digestive organs and nervous system and an ingredient for a beverage.....	Rumford Chemical Works	12,659	Oct. 13	33	118
Remedy for horse-colic.....	P. Crist	12,769	Nov. 17	33	762
Remedy for malarial diseases.....	G. V. Dunn	12,391	July 7	32	2
Remedy for malarial diseases.....	Sure Cure Medicine Company	12,610	Sept. 29	32	1470
Remedy for pulmonary diseases.....	M. F. Eagar	12,205	May 5	31	522
Remedy for rheumatism.....	J. D. Ecardisley	12,509	Aug. 18	32	778
Remedy for rheumatism.....	J. Stine	12,416	July 14	32	140
Remedy for rheumatism and similar diseases.....	Pfeizer Bros. & Co.	12,820	Dec. 1	33	1000
Remedy for ringworm, tetter, and all itching eruptions of the skin.....	J. T. Shuptrine	12,651	Oct. 13	33	118
Remedy for skin diseases.....	F. Levv	12,501	Sept. 22	32	1360
Remedy for stimulating the spine, &c.....	A. H. Covell	11,854	Jan. 13	30	102
Remedy for the cure of fever and ague and diseases caused by malaria.....	Allen, Merrill & Co.	12,261	May 26	31	920
Remedy for uterine and womb diseases.....	R. P. Crump	12,813	Dec. 1	33	1000
Ribbons.....	J. & J. Cash	11,843	Jan. 6	30	2
Ribbons.....	J. Ryle	12,873	Dec. 22	33	1394
Ribbons and dress goods. Silk.....	Phoenix Manufacturing Company	12,369	June 30	31	1564
Rubber articles of a pliable character. Certain named.....	C. Macintosh & Co.	12,328	June 16	31	1308
Rubber clothing and oil-clothing.....	Elsom, Hall & Co.	12,148	Apr. 21	31	267
Rubber goods. Certain-named.....	S. Ballard & Co.	12,083	Apr. 7	31	2
Rum.....	C. W. Howland	12,872	Dec. 22	33	1394
Sad-irons.....	J. Sabold, Jr.	12,051	Mar. 24	30	1098
Saddle-blankets, fly-nets, horse-sheets, lap-robies, and lap-dusters.....	W. Ayres & Sons	12,016	Mar. 17	30	998
Safety-pins.....	J. Jenkins	12,675	Oct. 20	33	240
Safety-pins.....	J. Jenkins	12,676	Oct. 20	33	240
Sail-cloth or duck.....	Whiton, Brother & Co.	12,744	Nov. 3	33	504
Salt.....	Phillips, Henry & Co.	12,850	Dec. 15	33	1270
Salve.....	J. E. Healy and C. Bigelow	11,911	Feb. 10	30	453
Salve.....	J. E. Healy and C. Bigelow	11,968	Feb. 24	30	664
Salve.....	H. F. Tower	11,901	Feb. 3	30	348
Salve or ointment.....	M. Barrett	12,563	Dec. 29	33	1502
Salve or ointment.....	Potter Drug and Chemical Company.	11,876	Jan. 20	30	182
Satinets or woollen cloths or clothing made therefrom.....	A. G. Dewey & Co.	11,997	Mar. 10	30	896
Saws. Bracket, hack, and meat.....	G. N. Clemson	12,263	May 26	31	920
Scarfs. Gentlemen's neck.....	L. Auerbach	12,810	Dec. 1	33	1000
Sedative, anti-spasmodic, and diffusible stimulant.....	J. T. Davenport	11,855	Jan. 13	30	102
Seeds. All kinds of field, garden, and flower seeds, excepting clover and timothy.....	O. Landreth	12,327	June 16	31	1308
Seeds. All kinds of field, garden, grain, grass, tree, shrub, and flower.....	O. Landreth	12,337	June 23	31	1448
Sewing-machines and attachments.....	Domestic Sewing Machine Company.	12,254	May 19	31	794
Sewing-machines and sewing-machine attachments and supplies.....	Singer Manufacturing Company	12,396	July 7	32	2
Sewing-machines and sewing-machine attachments and supplies.....	Singer Manufacturing Company	12,717	Oct. 27	33	360
Shade fabrics, such as hollands and prepared muslins.....	H. B. Wiggins' Sons	12,239	May 12	31	668
Shawls. Woven.....	W. A. Gardner & Co.	11,844	Jan. 6	30	2
Sheep-dipping powder or insecticide.....	W. Cooper & Nephews.	12,507	Aug. 11	32	656
Sheet metal for packing and other purposes.....	D. P. Dieterich	12,035	Mar. 24	30	1098
Sheet-metal utensils and articles for household purposes, &c. Enamelled.....	Lalance & Grosjean Manufacturing Company.	11,858	Jan. 13	30	102
Sheetings, shirtings, drills, and jeans.....	Fearon, Low & Co.	12,574	Sept. 15	32	1242
Sheetings, shirtings, drills, and jeans.....	Fearon, Low & Co.	12,575	Sept. 15	32	1242
Sheetings, shirtings, drills, and jeans.....	Fearon, Low & Co.	12,576	Sept. 15	32	1242
Sheetings, shirtings, drills, and jeans.....	Fearon, Low & Co.	12,577	Sept. 15	32	1242
Sheetings, shirtings, drills, and jeans.....	Fearon, Low & Co.	12,578	Sept. 15	32	1242
Sheetings, shirtings, drills, and jeans.....	Fearon, Low & Co.	12,587	Sept. 22	32	1360
Sheetings, shirtings, drills, and jeans.....	Fearon, Low & Co.	12,302	June 9	31	1174
Sheetings, shirtings, drills, and jeans. Gray and bleached.....	Fearon, Low & Co.	12,380	July 7	32	2
Shirts.....	E. F. Bermingham	12,065	Apr. 7	31	2
Shirts, collars, and cuffs.....	Holmes & Ide	11,963	Mar. 3	30	778
Shirts, shirt-waists, and drawers.....	W. J. Bloomer	12,890	Dec. 29	33	1502
Shoe and garment clasp.....	J. C. Hammond, Jr.	12,421	July 21	32	260

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Title.	Name.	No.	Date.	Official Gazette.	
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Shoe and leather dressing and blacking.	Button & Ottley	12,943	May 19	31	794
Shoes.	N. Curtis & Co.	12,616	Oct. 6	33	9
Shoes. Boys', girls', children's, and infants'	T. M. Harris & Co.	11,845	Jan. 8	30	9
Shoes. School.	Fearey Manufacturing Company.	12,772	Nov. 17	33	768
Sign. Emblematic.	Z. Marx	12,618	Dec. 1	33	1009
Silesia, satene, twills, and other textile cotton fabrics.	Hyde & Burton	12,030	Mar. 24	30	1009
Silica cleaning and polishing preparations	Plymouth Silica Company	12,025	Mar. 17	30	998
Silk. Sewing and embroidery.	Brainerd & Armstrong Company	12,694	Dec. 29	33	1508
Silks. Japan	Mourilyan, Heilmann & Co.	12,317	June 16	31	1308
Silks. Plain woven.	Bates, Reed & Cooley	12,084	Apr. 7	31	8
Silver-plated table-ware and fancy articles	Fairpoint Manufacturing Company	12,580	Sept. 15	32	1242
Silver-ware for table use, watch-cases, &c. Imitation.	Holmes & Edwards Silver Company	12,244	Dec. 15	30	1870
Sirup and sugar. Maple	D. M. Hazen	12,436	July 21	32	280
Sirup for coughs, colds, &c.	C. Pingel	12,762	Nov. 17	33	762
Skates, mop and brush holders, and rubber floor-scrubbers and window-cleaners. Roller.	Victor Roller Skate Company	12,196	Apr. 28	31	352
Skates. Roller.	Diamond Roller Skate Company	12,075	Apr. 7	31	2
Skins of a peculiar finish and boots and shoes made therefrom. Kid.	W. T. Ash	11,990	Mar. 10	30	896
Snuff.	P. Lorillard & Co.	12,493	July 21	32	280
Soap and perfumes	S. Palmer	12,904	Dec. 29	33	1502
Soap. Bar.	J. Biechele	12,057	Mar. 31	30	1210
Soap. Cake.	J. S. Wetmore	12,155	Apr. 21	31	268
Soap for laundry and general household purposes	J. Armstrong & Co.	12,701	Oct. 27	33	300
Soap for laundry and general purposes	Procter & Gamble	11,920	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,921	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,923	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,924	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,925	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,926	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,927	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,928	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,929	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,930	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,931	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,932	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,934	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,935	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,936	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,937	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,938	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,939	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,940	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,941	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,942	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,943	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,944	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,945	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,946	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,947	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,948	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,949	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,950	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,951	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,952	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,953	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,954	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,955	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,956	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,957	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,958	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,959	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,960	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,961	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,962	Feb. 10	30	454
Soap for laundry and general purposes	Procter & Gamble	11,963	Feb. 10	30	454
Soap for laundry and toilet purposes	Procter & Gamble	11,964	Feb. 10	30	454
Soap for laundry and toilet use	L. & J. Oakley	12,218	May 5	31	522
Soap for laundry and toilet use	L. & J. Oakley	12,547	Sept. 1	32	1014
Soap for laundry and toilet use	Procter & Gamble	11,919	Feb. 10	30	454
Soap for laundry and general purposes.	Milhens & Kropff	12,863	Dec. 15	33	1270
Soap. Glycerine	J. Biechele	12,300	June 9	31	1174
Soap. Hard	G. Davis & Co.	12,279	June 2	31	1048
Soap. Hard	I. Stine	12,550	Sept. 1	32	1014
Soap in cakes for laundry and general purposes.	Procter & Gamble	11,939	Feb. 10	30	454
Soap in cakes for toilet, bath, and laundry. Hard	L. & J. Oakley	11,961	Jan. 13	30	102
Soap in oblong cakes. Tallow	Procter & Gamble	11,933	Feb. 10	30	454
Soap. Laundry.	Commercial Oil and Soap Company	12,226	June 2	31	1048
Soap. Laundry.	N. K. Fairbank & Co.	12,208	May 5	31	522
Soap. Laundry.	J. S. Kirk & Co.	12,568	Sept. 15	32	1242
Soap. Laundry.	J. S. Kirk & Co.	12,569	Sept. 15	32	1242
Soap. Laundry.	J. S. Kirk & Co.	12,570	Sept. 15	32	1242
Soap. Laundry.	J. S. Kirk & Co.	12,571	Sept. 15	32	1242
Soap. Laundry.	J. S. Kirk & Co.	12,572	Sept. 15	32	1242
Soap. Laundry.	J. S. Kirk & Co.	12,573	Sept. 15	32	1242
Soap. Laundry.	J. S. Kirk & Co.	12,588	Sept. 22	32	1360
Soap. Laundry.	J. S. Kirk & Co.	12,589	Sept. 22	32	1360
Soap. Laundry.	J. S. Kirk & Co.	12,590	Sept. 22	32	1360
Soap. Laundry.	J. S. Kirk & Co.	12,604	Sept. 29	32	1470
Soap. Laundry.	Oberne, Hosick & Co.	12,354	June 30	31	1564
Soap. Laundry.	Oberne, Hosick & Co.	12,431	July 31	32	860
Soap. Laundry.	Oberne, Hosick & Co.	12,848	Dec. 15	33	1270
Soap. Laundry.	Procter & Gamble	12,478	Aug. 4	32	522
Soap. Laundry.	J. Taylor	12,806	Nov. 24	33	822
Soap. Laundry.	G. F. Whitney	12,055	Mar. 24	30	1078
Soap. Laundry and toilet.	N. K. Fairbank & Company	12,856	Dec. 15	33	1270
Soap. Laundry and toilet.	N. K. Fairbank & Company	12,857	Dec. 15	33	1270
Soap. Laundry and toilet.	Gardner Pine Needle Extract Company.	12,404	July 14	32	140
Soap. Laundry and toilet.	J. S. Kirk & Co.	12,067	Mar. 31	30	1210
Soap. Laundry and toilet.	Lautz Bros. & Co.	12,799	Nov. 24	32	699
Soap. Laundry and toilet.	S. Strunz	12,438	July 31	32	960
Soap. Medicated	Potter Drug and Chemical Company.	11,875	Jan. 20	30	129
Soap. Powdered	F. G. Taylor	12,719	Oct. 27	32	360
Soap. Powdered or granulated	J. Loughrey	12,560	Sept. 8	32	1128
Soap. Toilet.	Bernard & Co.	12,665	Oct. 20	33	240
Soap. Toilet.	Colgate & Co.	11,995	Mar. 10	30	896
Soap. Toilet.	J. S. Kirk & Co.	12,618	Oct. 6	33	2
Soap. Toilet.	J. S. Kirk & Co.	12,619	Oct. 6	33	2
Soap. Toilet.	J. S. Kirk & Co.	12,620	Oct. 6	33	2
Soap. Toilet.	J. S. Kirk & Co.	12,621	Oct. 6	33	2
Soap. Toilet.	S. W. McBride	12,364	June 30	31	1564
Soap. Toilet and laundry.	Colgate & Co.	12,704	Oct. 27	33	280
Soap. Toilet and laundry.	Colgate & Co.	12,726	Nov. 3	33	504

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Soap. Toilet and laundry	Empire Soap Company	12,149	Apr. 21	31	267
Soap. Toilet and laundry	Kansas City Soap Company	12,777	Nov. 17	33	763
Soap. Toilet, bath, and laundry	Gowans & Stover	12,210	May 5	31	522
Soaps. Family	N. K. Fairbank & Co	12,255	May 19	31	794
Soaps. Family	N. K. Fairbank & Co	12,463	Aug. 4	32	522
Soaps. Family	N. K. Fairbank & Co	12,464	Aug. 4	32	522
Soaps for scrubbing purposes. Laundry and other	Empire Soap Company	12,178	Apr. 28	31	352
Soaps. Laundry and other	Empire Soap Company	12,179	Apr. 28	31	352
Soaps. Laundry and other	Empire Soap Company	12,180	Apr. 28	31	352
Soaps. Laundry and other	Empire Soap Company	12,181	Apr. 28	31	352
Soaps. Laundry and other	Empire Soap Company	12,206	May 5	31	522
Soaps. Laundry and toilet	J. H. Keller	12,532	Aug. 25	32	898
Soaps of all kinds	L. & J. Oakley	12,234	May 12	31	608
Soaps. Toilet and laundry	H. & G. A. Roever	11,941	Feb. 10	30	454
Soda-water. Bottled	A. M. G., and V. Hofmann	12,305	June 9	31	1174
Solution for the removal of corns, bunions, and warts	J. H. Myers	11,998	Mar. 3	30	778
Spool-cotton	Clark Thread Company	12,158	Apr. 21	31	908
Spectacle and eyeglass frames. Certain	Morgan & Headly Optical Manufacturing Company	12,430	July 21	32	260
Spectacles and eyeglasses	H. Hirschberg	12,437	July 21	32	260
Spectacles and eyeglasses	J. King	11,958	Feb. 17	30	562
Spectacles and eyeglasses	A. Schweizer	11,978	Feb. 24	30	664
Spectacles and eyeglasses	Spencer Optical Manufacturing Company	12,520	Aug. 18	32	778
Spectacles and eyeglasses	Spencer Optical Manufacturing Company	12,521	Aug. 18	32	778
Spectacles and eyeglasses	Spencer Optical Manufacturing Company	12,522	Aug. 18	32	778
Spice-mills	J. Burns & Sons	12,896	Dec. 29	32	1502
Spices	Ricker, Crombie & McLane	12,070	Mar. 31	30	1210
Spokes, rims, hubs, and other carriage wood-ware	Crane & McMahon	12,060	Mar. 31	30	1210
Spokes, rims, shafts, bows, sawed fellies, hubs, rim-strips, and other carriage wood-ware	Crane & McMahon	12,062	Mar. 31	30	1210
Starch	J. M. Porter	12,687	Dec. 29	32	1502
Starch. Gloss lump	W. F. Piel & Co	12,377	July 7	32	2
Starch. Maize	Danville Refining Company	12,390	June 30	31	1564
Starch. Laundry	B. Brown	12,554	Sept. 8	32	1128
Starch. Laundry	J. M. Porter	12,595	Sept. 22	32	1360
Stationery. Certain named articles of	F. G. Froese and C. L. H. Grasser	12,381	July 7	32	2
Stockings and underwear	Lord & Taylor	12,104	Apr. 7	31	2
Stockings and underwear	Lord & Taylor	12,105	Apr. 7	31	2
Stout. Guinness's extra	T. McMullen & Co	12,793	Sept. 22	32	1360
Stove-pipe elbows. Certain	Lock Seam Elbow Company	12,103	Apr. 7	31	2
Stove-polish	Phoenix Plumbago Mining Company	12,475	Aug. 4	32	582
Stove-polish	G. M. Richardson	12,007	Dec. 29	32	1502
Stove-polish	R. H. Wetherell	12,341	June 23	31	1448
Stove-polish and polishing compounds, both liquid and solid	D. W. Raymond	11,940	Feb. 10	30	454
Stove-polish in powdered form	J. Taylor	12,524	Aug. 18	32	778
Stove. Wood-burning base-heating	Culter & Proctor Stove Company	12,379	July 7	32	2
Stoves and ranges. Cooking	Western Stove Manufacturing Company	12,653	Dec. 15	32	1270
Stoves and ranges for cooking and heating purposes	J. Born	12,332	June 23	31	1448
Stoves. Cook	Culter & Proctor Stove Company	12,311	June 16	31	1308
Stoves. Lamp or oil	J. McConnell	12,696	Oct. 20	33	240
Stoves of all kinds, portable ovens, and cooking utensils for the same	Quick Meal Stove Company	12,047	Mar. 24	30	1098
Stoves. Portable	R. E. Dietz	12,089	Apr. 7	31	2
Stoves. Vapor cooking and heating	American Vapor Stove Company	12,377	July 7	32	2
Sugar. Refined hard	De Castro & Donner S. R. Company	12,698	Dec. 29	32	1502
Suppositories. French uterine	G. Desbrough	12,159	Apr. 21	31	268
Suspenders and shoulder-braces	T. O. Potter	12,549	Sept. 1	32	1014
Table-ware and cutlery and German-silver forks and spoons	Fairpoint Manufacturing Company	12,594	Sept. 22	32	1360
Steel					
Tacks	Pennsylvania Tack Works	12,367	June 30	31	1564
Tea	J. Keer	12,631	Dec. 8	33	1142
Tea. Mixed	J. Babillon	12,199	May 5	31	522
Tea. Mixed	J. Babillon	12,200	May 5	31	522
Teas	Fraser, Farley & Varnum	12,064	Mar. 31	30	1210
Teas	Fraser, Farley & Varnum	12,065	Mar. 31	30	1210
Teas. Mixed	C. D. Kenny	12,469	Aug. 4	32	522
Textile fabric having woven figures thereon	Brussels Tapestry Company	12,225	June 2	31	1048
Thrashing-machines and engines	Caso & Willard Thresher Company	12,170	Apr. 21	31	268
Thread. Gilling	J. Dukehart & Co	12,461	Aug. 4	32	522
Thimbles. Gold, silver, and other solid	H. Muhr's Sons	12,661	Dec. 15	33	1270
Tinsel on small spools. Frosted	Klein, Baer & Co	12,001	Mar. 10	30	896
Tobacco. All kinds of fine-cut chewing	J. Schriber & Co	12,432	July 21	32	260
Tobacco and cigarettes. Smoking	G. W. Conover	12,670	Oct. 20	33	240
Tobacco. Chewing	G. W. Gail & Ax	12,692	Oct. 20	33	240
Tobacco. Chewing	P. H. Hanes & Co	12,211	May 5	31	522
Tobacco. Chewing and smoking	J. G. Dill	12,427	July 21	32	260
Tobacco. Chewing and smoking	J. G. Dill	12,428	July 21	32	260
Tobacco. Chewing and smoking	J. G. Dill	12,770	Nov. 17	33	762
Tobacco. Chewing and smoking	J. G. Dill	12,771	Nov. 17	33	762
Tobacco, cigars, and cigarettes. All kinds of fine-cut chewing, granulated and other kinds of smoking	J. Schriber & Co	12,007	Mar. 10	30	896
Tobacco, cigars, and cigarettes. Chewing and smoking	Pace & Sizer	12,005	Mar. 10	30	896
Tobacco, cigars, and cigarettes. Fine-cut chewing, granulated, and other kinds of smoking	Hull, Boesger & Co	12,212	May 5	31	522
Tobacco, cigars, and cigarettes. Plug and twist chewing and smoking	W. A. Whitaker	11,980	Feb. 24	30	664
Tobacco, cigars, and cigarettes. Smoking and chewing	H. W. Meyer	12,215	May 5	31	522
Tobacco, cigars, and cigarettes. Smoking and chewing	H. W. Meyer	12,216	May 5	31	522
Tobacco, cigars, and cigarettes. Smoking and chewing	Pace & Sizer	12,498	Aug. 11	32	656

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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Tobacco, cigars, and cigarettes. Smoking, plug chewing, and fine-cut	W. J. Pogue	12,892	Dec. 1	32	1000
Tobacco, cigars, cigarettes, and snuff. Smoking and chewing	S. Busnitz & Co.	12,541	Sept. 1	32	1014
Tobacco, cigars, cigarettes, and snuff. Smoking and chewing	S. Busnitz & Co.	12,542	Sept. 1	32	1014
Tobacco, cigars, cigarettes, and snuff. Smoking and chewing	S. Busnitz & Co.	12,665	Oct. 20	30	240
Tobacco, cigars, cigarettes, cheroots, and snuff. Smoking and chewing	F. W. Felgner & Son	12,694	Oct. 20	32	240
Tobacco. Cut smoking and cut chewing.	B. Payn's Son's Tobacco Company	12,849	Dec. 15	32	1270
Tobacco. Havana leaf	J. B. Creagh	11,893	Feb. 3	30	348
Tobacco. Leaf	F. Gogorza's Sons	12,673	Oct. 20	30	240
Tobacco. Leaf	Loeb & Block	11,972	Feb. 24	30	664
Tobacco. Leaf	Well & Co.	12,654	Mar. 24	30	1098
Tobacco. Plug	Bostic Bros. & Wright	12,017	Mar. 17	30	998
Tobacco. Plug	J. G. Dill	12,705	Oct. 27	32	360
Tobacco. Plug	Gem City Tobacco Works	12,513	Aug. 18	32	778
Tobacco. Plug	Larus & Bro.	12,470	Aug. 4	32	522
Tobacco. Plug	P. McNamara & Co.	12,003	Mar. 10	30	896
Tobacco. Plug	Perkins & Ernst	12,044	Mar. 24	30	1098
Tobacco. Plug	Perkins & Ernst	12,368	June 30	31	1564
Tobacco. Plug	Perkins & Ernst	12,864	Dec. 15	32	1270
Tobacco. Plug and smoking	L. H. Neudecker	12,562	Sept. 8	32	1128
Tobacco. Plug chewing	B. F. Gravely & Sons	12,489	Aug. 11	32	656
Tobacco. Plug chewing	B. F. Gravely & Sons	12,490	Aug. 11	32	656
Tobacco. Plug chewing	B. F. Gravely & Sons	12,491	Aug. 11	32	656
Tobacco. Plug chewing and smoking	H. Levi & Co.	12,640	Oct. 13	33	118
Tobacco. Plug chewing and smoking	H. Levi & Co.	12,641	Oct. 13	33	118
Tobacco. Plug smoking	Union Tobacco Works, Geo. S. Schwartz & Co.	12,206	June 2	31	1048
Tobacco. Smoking	Z. I. Lyon & Co.	11,847	Jan. 6	30	2
Tobacco. Smoking	Rassfeld & Albers	12,069	Mar. 31	30	1210
Tobacco. Smoking	B. F. Weyman	12,788	Nov. 17	33	762
Tobacco. Smoking	B. F. Weyman	12,809	Nov. 24	33	892
Tobacco. Smoking and chewing	C. W. Allen Company	12,378	July 7	32	2
Tobacco. Smoking and chewing	C. W. Allen Company	12,662	Oct. 20	33	239
Tobacco. Smoking and chewing	C. W. Allen Company	12,663	Oct. 20	33	239
Tobacco. Smoking and chewing	C. W. Allen Company	12,664	Oct. 20	33	240
Tobacco. Smoking and chewing	C. W. Allen Company	12,699	Oct. 27	33	360
Tobacco. Smoking and chewing	C. W. Allen Company	12,791	Nov. 24	33	892
Tobacco. Smoking and chewing	Easley Bros.	11,865	Jan. 20	30	182
Tobacco. Smoking and chewing	Frishmuth Bro. & Co.	12,229	May 12	31	668
Tobacco. Smoking and chewing	G. W. Gall & Ax.	12,512	Aug. 18	32	778
Tobacco. Smoking and chewing	G. W. Gall & Ax.	12,830	Dec. 8	33	778
Tobacco. Smoking and chewing	G. W. Gall & Ax.	12,900	Dec. 29	33	1002
Tobacco. Smoking and chewing	H. W. Meyer	12,352	June 30	31	1564
Tobacco. Smoking, fine-cut, and plug	Wellman & Dwire Tobacco Company	12,375	June 30	31	1564
Tobacco. Smoking, plug, and fine-cut	Wellman & Dwire Tobacco Company	12,322	June 16	31	1308
Tobacco, snuff, cigars, cigarettes, and cheroots. Smoking and chewing	F. W. Felgner & Son	12,287	June 2	31	1042
Toilet-powder	C. A. Lewis	12,679	Oct. 20	33	240
Toilet-powder	A. D. Slocumb and J. W. Day	12,320	June 16	31	1308
Toilet-powders, pomades, washes, and perfumes	F. La Manna	11,973	Feb. 24	30	664
Toilet-water	F. La Manna	11,969	Feb. 24	30	664
Tonic and blood-purifier	O. I. C. Co.	12,348	May 19	30	1002
Tonic preparation for the treatment of certain diseases	H. H. Warner	12,508	Nov. 24	33	892
Tonics and stimulants	M. Kalbfleisch's Sons	12,776	Nov. 17	33	762
Tooth-powder	E. C. Wardsworth	12,398	July 7	32	2
Tooth-powder and toilet-soap	Vall Brothers	12,448	July 28	32	522
Towels. Certain sanitary	Southall Bros. & Barclay	12,356	June 30	31	1564
Twine. Binders	L. Waterbury & Co.	12,483	Aug. 4	32	522
Twine. Binders	L. Waterbury & Co.	12,634	Oct. 6	33	2
Twine for reaping-machines. Binder's	L. Waterbury & Co.	12,482	Aug. 4	32	522
Twine used for binder attachments for harvesting-machines	I. J. Truman and A. H. Isham	11,953	Feb. 17	30	562
Type. Self-spacing	H. Bledsoe	12,811	Dec. 1	33	1000
Underwear. Certain articles of gentlemen's	H. F. Woodward & Co.	12,453	July 26	32	386
Underwear. Men's and boys'	Heas, Mayer & Co.	11,871	Jan. 20	30	182
Valves and hydrants	Chapman Valve Manufacturing Company	12,029	Mar. 17	30	998
Valves, lubricators, plugs, and similar devices	W. Powell & Co.	12,476	Aug. 4	32	522
Valves. Water, steam, and other	D. P. Dieterich	12,036	Mar. 24	30	1098
Varnish. Oil or spirit	Southern Chemical Company	12,827	Dec. 1	33	1000
Varnishes and japans	T. T. Lines	12,429	July 21	32	260
Varnishes, japans, wood-stains, &c.	D. Rosenberg & Sons	12,888	Dec. 15	33	1370
Varnishes of all kinds	J. A. Shephard	12,027	Mar. 17	30	998
Vegetable depurative	J. E. Blanc	12,072	Apr. 7	31	2
Vehicles for carrying passengers. Wheeled	P. Herdlo	12,032	Mar. 17	30	998
Velocipedes	Hillman, Herbert & Cooper	12,406	July 14	32	140
Velocipedes and their parts and materials	G. Singer	12,598	Sept. 22	32	1360
Velvet. Silk	A. Wimpheimer & Bro.	12,137	Apr. 14	31	124
Velvets	F. S. Pinkus	12,564	Sept. 8	32	1128
Velvets	A. Wimpheimer & Bro.	12,496	July 21	32	260
Velvets, velveteens, corduroys, mole-skins, allestias, and linings	J. & R. Edmondson	11,999	Mar. 10	30	896
Velveteens	Tooal Broadhurst, Lee & Co.	12,611	Sept. 29	32	1470
Velveteens	E. Walther	12,909	Dec. 29	33	1502
Vermine exterminator	C. B. O'Neill	12,803	Nov. 24	33	892
Violin, guitar, and banjo strings	S. Blumenthal	12,792	Nov. 24	33	892
Violin-strings	S. Blumenthal	12,793	Nov. 24	33	892
Vitreous material and certain articles made therefrom	Vitrite Company	12,357	June 30	31	1564
Walls. Compound for coating	Church Finish Company	12,086	Apr. 7	31	2
Washes, white or colored, for use on walls, fences, &c.	A. A. Hasson	12,030	Mar. 17	30	998
Washing compound	J. S. Kirk & Co.	12,579	Sept. 15	32	1242

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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Washing-liquid	L. Kuhlmann & Bro	12,024	Mar. 17	30	998
Washing-machine	C. A. Bentzen	12,553	Sept. 8	32	1128
Washing-powders	L. & J. Oakley	12,165	Apr. 21	31	968
Watch-cases	Crescent Watch Case Company	12,841	Dec. 15	33	1270
Watch-cases	J. Fahys & Co	12,093	Oct. 20	33	940
Watch-cases. Filled	H. Muhr's Sons	11,974	Feb. 24	30	664
Watch-cases. Filled	H. Muhr's Sons	12,862	Dec. 15	33	1270
Watch-keys	J. S. Birch & Co	12,114	Apr. 14	31	124
Watches, and eight-day and other clocks. Gold, silver, nickel, and other	E. Naegle	12,079	Apr. 7	31	2
Water. Natural spring	J. W. Miller	12,605	Sept. 29	32	1470
Water-proof clothing	D. Jannopoulo	11,914	Feb. 10	30	454
Water-proof clothing	D. Jannopoulo	11,952	Feb. 17	30	562
Water-wheels. Turbine	H. R. Mathias	12,316	June 16	31	1308
Water-wheels. Turbine	Stillwell & Bierce Manufacturing Company	12,661	Oct. 13	33	118
Wheat-germ flakes	H. Bridenthal	12,540	Sept. 1	32	1014
Wheat scourers, separators, and smutters	Hercules Manufacturing Company	12,126	Apr. 28	31	382
Whips	E. K. Warren	12,525	Aug. 18	32	778
Whips. Certain	L. H. Lee	11,859	Jan. 13	30	102
Whips. Driving	Lay, Van Deusen & Co	12,710	Oct. 27	33	360
Whips. Driving	Lay, Van Deusen & Co	12,711	Oct. 27	33	360
Whips. Gentlemen's driving	Westfield Whip Company	12,763	Nov. 10	33	626
Whiskies	J. Emmitt	12,265	May 26	31	920
Whisky	Colburn, Birks & Company	12,703	Oct. 27	33	360
Whisky	S. B. Hopkins	12,493	Aug. 11	32	656
Whisky	C. P. Moorman	12,731	Nov. 3	33	504
Whisky	C. P. Moorman	12,732	Nov. 3	33	504
Whisky	C. P. Moorman	12,733	Nov. 3	33	504
Whisky	C. P. Moorman	12,734	Nov. 3	33	504
Whisky	C. P. Moorman	12,735	Nov. 3	33	504
Whisky, brandy, and gin	Childs & Co	11,950	Feb. 17	30	562
Whisky, brandy, wine, and gin	J. Ross	12,172	Apr. 21	31	268
Whisky. Malt	Duffy Malt Whiskey Company	11,908	Mar. 19	30	696
Whisky. Malt	Duffy Malt Whiskey Company	12,121	Apr. 14	31	124
Whisky. Malt	Rosskam, Gerstley & Co	11,699	Feb. 3	30	348
Whisky. Rye and bourbon	S. C. Herbet	11,351	Feb. 17	30	562
Wine and beer	Redling & Neubauer	12,271	May 26	31	920
Wine. Champagne	A. De Montebello & Co	12,088	Apr. 7	31	2
Wine. Orange	Florida Wine Company	12,139	Apr. 14	31	124
Wine of a dark-red color	J. Munch	11,987	Mar. 3	30	778
Peptone	J. Barnet	12,071	Apr. 7	31	1
Wines and brandies. Native	C. M. Roof	12,628	Oct. 6	33	2
Wines and liquors	C. Anduran & Co	12,889	Dec. 29	33	1502
Wines. Champagne	Kuhl, Boehmke & Co	11,915	Feb. 10	30	454
Wines. Champagne	Kunkelmann & Co	12,729	Nov. 3	33	504
Wines. Champagne	Kunkelmann & Co	12,754	Nov. 10	33	626
Wines. Champagne	Rheingauer Schaumweinfabrik Schierstein	12,355	June 30	31	1564
Wines. Champagne	Rheingauer Schaumweinfabrik Schierstein	12,389	July 7	32	2
Wines. Hungarian	S. B. Wortmann & Co	12,721	Oct. 27	33	360
Wines. Hungarian Tokay	S. B. Wortmann & Co	12,722	Oct. 27	33	360
Wires for fencing, cages, &c	De Witt Wire Cloth Company	12,836	Dec. 8	33	1142
Wires, varnishes, &c	W. Brockner and L. E. Evans	12,201	May 5	31	522
Wires for vehicles	D. Roenberg & Sons	12,867	Dec. 15	33	1270
Wires. Adding. Certain-named	Crane & McMahon	12,061	Mar. 31	30	1210
Woolen wearing-apparel. Certain-named	Jaeger's Sanitary Woollen System Company	12,291	June 2	31	1048
Woolens for overcoatings	Jaeger's Sanitary Woollen System Company	12,290	June 2	31	1048
Worsted	E. T. Steel & Co	12,258	May 19	31	794
Worsted cloakings	Tittel & Krüger	12,424	July 21	32	280
Writing-machines	Clark & Keen	12,301	June 9	31	1174
Writing-machines	American Writing Machine Company	12,147	Apr. 21	31	267
Writing-machines	American Writing Machine Company	12,168	Apr. 21	31	268
Yarns or chenilles. Fancy	R. N. Havers	12,466	Aug. 4	32	532
Yarns or chenilles. Fancy	R. N. Havers	12,467	Aug. 4	32	532
Yarns. Worsted and woolen	Nonantum Worsted Company	12,969	May 26	31	920
Yeast	H. H. Warner	12,612	Sept. 29	32	1470
Yeast	H. H. Warner	12,743	Nov. 3	33	504
Yeast-cakes	E. W. Gillett	12,315	June 16	31	1308

ALPHABETICAL LIST OF LABELS.

Title.	Name.	No.	Date.	Official Gazette.	
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"Abietene and Yerba Santa, Cough Candy".....	D. F. Fryer.....	4,533	July 25	32	386
"Abietene Ointment".....	D. F. Fryer.....	4,454	May 19	31	794
"Abietene Porous Plaster".....	D. F. Fryer.....	4,498	Apr. 21	31	268
"Acetone Egg Pungents".....	E. G. Boughton.....	4,477	June 16	31	1306
"A. E. Boonekamp Maag Bitter".....	E. Masqueller.....	4,642	Nov. 24	33	692
"Esculapian Compound".....	A. J. McFarland.....	4,400	Mar. 31	30	1210
"Ahlstrom's Hand Fire-Extinguisher".....	C. N. Ahlstrom.....	4,362	Mar. 3	30	778
"American Film".....	Eastman Dry Plate and Film Com- pany.....	4,480	June 16	31	1308
"Ammoniated" (for Soap).....	G. K. Morehead.....	4,307	Jan. 6	30	2
"Andrew Johnson's Pain Liniment".....	A. Johnson.....	4,551	Aug. 11	32	656
"A. O. Hebrard's Worlds Exposition Souvenir" (for Knap- sack, Matchbox, etc.).....	A. O. Hebrard.....	4,467	June 2	31	1048
"Argenta" (for soap).....	J. S. Kirk & Co.....	4,557	Aug. 18	32	778
"Arlington Skirt Manufacturing Co." (for Skirts).....	J. Mayer.....	4,331	Feb. 3	30	348
"Armstrong's Asthma and Hay Fever Remedy".....	T. L. Armstrong.....	4,616	Nov. 3	33	504
"Atlee's London Syrup".....	F. T. Wilcox & Co.....	4,683	Dec. 22	33	1394
"Aydelott's Base Ball Cards".....	J. S. Aydelott.....	4,363	Mar. 3	30	778
"Balsam of Wintergreen".....	A. M. Robinson, Jr.....	4,379	Mar. 10	30	896
"Balsotto" (for a medical Compound).....	C. Speicher.....	4,674	Dec. 15	33	1270
"Bass' Chicken Cholera Cure".....	J. H. S., and S. J. Bass.....	4,309	Jan. 13	30	102
"Bellevue Disinfectant".....	Trades Chemical Company.....	4,350	Feb. 17	30	562
"Benzocated Lotion" (for Chapped Hands).....	L. O. Burbank.....	4,609	Oct. 20	33	240
"Berry's Nourishing Stout".....	T. Berry.....	4,667	Dec. 15	33	1270
"Big Can," (for Baking Powder).....	W. Condell.....	4,446	May 12	31	668
"Blackberry Brandy".....	Cook & Bernheimer.....	4,364	Mar. 3	30	778
"Blood, Rye & Beef" (for a Medicine for Consumption, &c.).....	E. J. Sherlock.....	4,594	Oct. 6	33	2
"Boyd's Rheumatic Compound".....	D. F. Boyd.....	4,649	Dec. 1	33	1000
"B. Payn's Son's Tobacco Co's Little Havana".....	B. Payn's Son's Tobacco Company.....	4,554	Aug. 11	32	656
"Brackett's Rheumatic Liniment".....	D. Brackett.....	4,634	Nov. 17	33	762
"British Baking Powder".....	British Baking Powder Company.....	4,441	May 5	31	522
"Browns Bronchial Balsam".....	Hughes & Watson.....	4,418	Apr. 21	31	268
"Brunwig's Orange Mint Elixir".....	G. R. Finlay & Co.....	4,678	Dec. 22	33	1394
"Bullion," (for Laundry Soap).....	J. S. Kirk & Co.....	4,578	Sept. 22	32	1360
"Buskirk's In and Out Notice".....	G. W. Buskirk.....	4,471	June 9	31	1174
"C. P. Jadwin's Pine Tar Syrup".....	C. P. Jadwin.....	4,550	Aug. 11	32	656
"C. T. Reynolds and Co's Specially Prepared Paints".....	C. T. Reynolds & Co.....	4,333	Feb. 3	30	348
"Campbell's Tonic Wine of Coca and Celery".....	M. Campbell.....	4,619	Nov. 3	33	504
"Canton Black" (for a Water-Proof Oil Dressing).....	Canton Paint and Oil Company.....	4,365	Mar. 3	30	778
"Canton Black" (for a Water-Proof Oil Blacking).....	Canton Paint and Oil Company.....	4,366	Mar. 3	30	778
"Canton Waterproof Oil Dressing for Boots & Shoes".....	Canton Paint and Oil Company.....	4,367	Mar. 3	30	778
"Catarrh Remedy".....	A. J. McFarland.....	4,496	July 7	32	2
"Catholicon" (for Medicine).....	H. W. Webster.....	4,569	Sept. 8	32	1128
"Caution" (for All-Wool Clothing).....	A. Shuman & Co.....	4,450	May 12	31	668
"Cereal Acid Phosphates".....	M. Kalbfleisch's Sons.....	4,388	Mar. 17	30	998
"Cheatham's Chill Tonic".....	M. V. Cheatham and C. B. Haley.....	4,440	May 5	31	522
"Chionanthus Compound".....	H. C. Royer.....	4,489	June 23	31	1448
"Clark's Hog Remedy".....	S. A. Clark.....	4,304	Jan. 6	30	2
"Cleansing Cream" (for a Clothing Renovator).....	E. S. Burnham.....	4,635	Nov. 17	33	762
"Cocaine Tooth Ache Drops".....	C. E. Lloyd and S. D. Pillsbury.....	4,399	Mar. 31	30	1210
"Colic Cure".....	D. B. Hand.....	4,627	Nov. 10	33	696
"Collins' Anti-Periodic or Fever and Ague Cure".....	Collins Brothers Drug Company.....	4,394	Mar. 31	30	1210
"Cologne Corset" (for Packages Containing Corsets).....	Hellner & Strauss.....	4,585	Dec. 1	33	1000
"Cooper's Sheep Dipping Powder".....	W. Cooper & Nephews.....	4,583	Sept. 29	32	1470
"Corn Husker's Salve".....	A. Gay.....	4,541	Aug. 11	32	656
"Corset Finish" (for Silosias and Umbrella Cloths).....	Rhode Island Lining Manufacturing Company.....	4,366	Mar. 17	30	998
"Cottingham's Liniment".....	W. H. Cottingham.....	4,484	June 23	31	1448
"Covell's Genuine old Dr. Spencer's Queen of Pain or minute Cure of the period.".....	A. H. Covell.....	4,321	Jan. 27	30	264
"Creamery 5lbs. Chocolates".....	Gray, Toynton & Fox.....	4,485	June 23	31	1448
"Creosote Paint".....	Sherwin-Williams Company.....	4,451	May 12	31	668
"Cubeb Cough Cure".....	N. L. Lighty.....	4,673	Dec. 15	33	1270
"Custom Made," (for Corsets).....	Thomson, Langdon & Co.....	4,698	Dec. 29	33	1502
"D. A. Sawyers' Compound Cathartic and Vegetable Blood Purifier.".....	D. A. Sawyers.....	4,528	July 21	32	260
"D. A. Sawyers' Cough Syrup".....	D. A. Sawyers.....	4,530	July 21	32	260
"D. A. Sawyers' Pain Specific".....	D. A. Sawyers.....	4,524	July 21	32	260
"D. A. Sawyers' Remedy for Kidney, Bladder, and Urinary Organs.".....	D. A. Sawyers.....	4,525	July 21	32	260
"D. A. Sawyers' Specific for Croup".....	D. A. Sawyers.....	4,527	July 21	32	260
"D. A. Sawyers' Tonic Bitters".....	D. A. Sawyers.....	4,526	July 21	32	260
"De Freest's Soda Flake Crackers Number One".....	R. M. De Freest.....	4,417	Apr. 21	31	268
"Delicious Shampoo," (for a Hair Wash).....	J. F. Geiger.....	4,597	Oct. 13	33	118
"Dexter's Mahogany Stain," (for Wood).....	Dexter Brothers.....	4,646	Nov. 24	33	892
"Dietrich's Liniment".....	J. Dietrich.....	4,494	June 30	31	1564
"Dimmick's Kidney and Bladder Cure".....	A. D. Dimmick.....	4,531	July 28	32	386
"Directions for using I. A. Potter & Co's New American Strengthening Plaster.".....	I. A. Potter & Co.....	4,579	Sept. 22	32	1360
"Domestic Parlor Illuminator," (for Burning Fluid).....	J. Erb.....	4,305	Jan. 6	30	2
"Domestic Spanish" (for Leaf Tobacco).....	L. Bremer's Sons.....	4,464	June 2	31	1048

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Title.	Name.	No.	Date.	Official Gazette.	
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"Double Waterproof." (for Metallic Cartridges)	Phoenix Metallic Cartridge Com- pany.	4,423	Apr. 21	31	268
"Douce-Haleine" (for a preparation for cleansing Artificial Teeth, &c.)	F. F. Gage	4,459	May 26	31	920
"Douglas' Diarrhea Mixture"	H. C. Douglas	4,472	June 9	31	1174
"Dr. Able's Compound Honey of Tar and Lemon"	J. L. Able	4,606	Oct. 13	33	118
"Dr. Ball's Coiled Spring Elastic Section Corset"	Detroit Knitting & Corset Works	4,466	June 2	31	1048
"Dr. Bell's Never-Failing, Wonderful Mixture for Chills and Fever."	W. A. Schropshire	4,680	Dec. 22	33	1394
"Dr. Brooks' Diphtheria Cure"	A. W. Hutchinson	4,348	Feb. 17	30	562
"Dr. C. C. Joallin's Liver Pills"	C. C. Joallin	4,601	Dec. 20	33	1502
"Dr. Chandler's Hemlock Plaster"	E. M. Valentine & Co.	4,375	Mar. 3	30	778
"Dr. Davis's Compound Syrup of Wild Cherry and Tar"	J. H. Collins & Co.	4,500	July 14	32	140
"Dr. Davis' Liver Pills"	J. H. Collins & Co.	4,574	Sept. 22	32	1360
"Dr. Desbrough's Anti-Billions Blood and Liver Pills"	G. Desbrough	4,300	Mar. 24	30	1068
"Dr. Dunlop's Cascara Compound"	United States Medicine Company	4,681	Dec. 22	33	1394
"Dr. Geo. Desbrough's Anti-Dyspeptic Stomach Powder"	G. Desbrough	4,369	Mar. 24	30	1068
"Dr. Gray's Detergent Perspiration Powder"	C. Lawrence	4,523	July 21	32	260
"Dr. H. Mozley's Lemon Tonic Cordial"	H. Mozley	4,643	Nov. 24	33	892
"Dr. Hand's Chafing Powder for Children and Adults"	D. B. Hand	4,544	Aug. 11	32	656
"Dr. Hand's Colic Cure for Children"	D. B. Hand	4,547	Aug. 11	32	656
"Dr. Hand's Cough and Croup Medicine for Children"	D. B. Hand	4,548	Aug. 11	32	656
"Dr. Hand's Diarrhea Mixture for Children"	D. B. Hand	4,545	Aug. 11	32	656
"Dr. Hand's General Tonic for Children"	D. B. Hand	4,542	Aug. 11	32	656
"Dr. Hand's Pleasant Physic for Children and Invalids"	D. B. Hand	4,543	Aug. 11	32	656
"Dr. Hand's Teething Lotion for Infants"	D. B. Hand	4,546	Aug. 11	32	656
"Dr. Hand's Worm Elixir for Children"	D. B. Hand	4,549	Aug. 11	32	656
"Dr. Hart's Rheumatic Remedy"	Hart Rheumatic Remedy Company	4,407	Apr. 14	31	124
"Dr. J. B. Henion's Sure Cure for Malaria"	Sure Cure Medicine Company	4,588	Sept. 29	32	1470
"Dr. Jug's Medicine"	J. H. Naamyth & Co.	4,421	Apr. 21	31	268
"Dr. La Blance's Diarrhea and Dysentery Drops"	E. B. Lucia	4,436	Apr. 22	31	322
"Dr. M. C. Beebe's Reliable Catarrh Cure"	M. C. Beebe	4,648	Dec. 1	33	1000
"Dr. McCoart's World Renowned Specific"	J. McCoart	4,361	Feb. 24	30	664
"Dr. Paris Nervous Restorative Lozenges"	L. Lewis	4,524	Sept. 29	32	1470
"Dr. Perdue's Salve"	M. Barrett	4,684	Dec. 29	33	1502
"Dr. Robt. Watson's Celebrated Eye Water"	R. Watson	4,612	Oct. 20	33	240
"Dr. Samuel's World's Dyspepsia Cure"	S. W. Baxter	4,647	Dec. 1	33	1000
"Dr. Schilling's Health Preserving Corset"	Detroit Knitting & Corset Works	4,362	Mar. 17	30	998
"Dr. Tyler's Tooth Tablets"	A. S. Schloss and D. Mueller	4,644	Nov. 24	33	892
"Dr. Wadsworth's Tooth Powder"	E. C. Wadsworth	4,506	July 14	32	140
"Dr. Wyman's Unexcelled Tooth Powder for Cleansing, Beautifying, and Preserving the Teeth, and Imparting a Delightful Fragrance to the Breath."	J. C. Wyman	4,645	Nov. 24	33	892
"Drew's Yeast Powder"	F. L. Hooper & Co.	4,357	Feb. 24	30	664
"Dunster's London Cordial Genera"	C. A. Richards	4,424	Apr. 21	31	268
"Duplex Knee" (for Clothing)	Spitz Bros. & Mork	4,426	Apr. 21	31	268
"Eaton's Celebrated Vegetable Cordial"	C. R. Harrington	4,368	Mar. 17	30	998
"Ebony Harness Soap"	J. S. Kirk & Co.	4,558	Aug. 18	32	778
"Egg Crystal" (a Preparation for Clearing and Enriching Coffee.)	M. L. McKean	4,502	July 14	32	140
"Egyptian Balm"	F. R. Hadley	4,522	July 21	32	260
"Elixir Agaric, Sacha, Pruden & Co., Sole Proprietors"	Sacha, Pruden & Co.	4,449	May 12	31	668
"Emley's Sarasaparilla"	C. A. Emley	4,532	July 28	32	326
"Emulsion Cod Liver Oil with Pepsin and Quinine"	Caswell, Massey & Co.	4,478	June 16	31	1308
"English Compound Extract of Pennyroyal and Tanay"	G. B. Hibbard and W. Gray	4,496	June 30	31	1564
"English Labor-Saving Soap"	G. C. Edwards	4,311	Jan. 13	30	102
"Ewing's Ague Mixture"	H. E. Holmes	4,466	June 23	31	1448
"Eutoca" (for toilet soap)	J. S. Kirk & Co.	4,559	Aug. 18	32	778
"F. Arnold Robert's French vinous essence"	F. A. Robert	4,378	Mar. 10	30	896
"F. Arnold Robert's Pruno-Ju ce"	F. A. Robert	4,377	Mar. 10	30	896
"F. Capurro Extra Refined Petroleum"	W. R. Grace & Co.	4,624	Nov. 10	33	926
"Factory 540, First District, Penna." (for Cigars)	J. F. Portoondo	4,535	Aug. 4	32	522
"Falke's Sulphuret Cream." (for Chapped Hands, &c.)	J. Falke	4,330	Feb. 3	30	348
"Farmer's" (for Horse and Cattle Powder)	C. H. Vanauken	4,529	July 21	32	260
"Favorite" (for Boys', Girls', Children's, & Infant's Shoes)	T. M. Harris & Co.	4,355	Feb. 24	30	664
"Female Regulator" (for a Medicine)	J. Lariviere	4,467	June 23	31	1448
"Fifty cents" (for Change Envelopes)	S. Raynor & Co.	4,568	Sept. 29	32	1470
"Fire and Waterproof Stone Composition Paint"	G. Langguth	4,474	June 9	31	1174
"Fleece Lined" (for Corsets)	Thomson, Langdon & Co.	4,624	Dec. 29	33	1502
"Forrest's Juniper Tar Drops." (for a Medicine for Coughs, Colds, &c.)	P. Rogers	4,601	Oct. 13	33	118
"Fragrant Corset." (for Packages Containing Corsets)	Heilner & Strauss	4,655	Dec. 1	33	1000
"Fraxine, the Great Remedy for Dyspepsia"	Fraxine Manufacturing Company	4,665	Dec. 8	33	1142
"French Depilatory." (for a Medicinal Compound)	E. E. Siddall and C. F. Graves	4,425	Apr. 21	31	268
"Fresh Corn and Tomatoes, C. C. Lang, Baltimore, Md."	C. C. Lang	4,501	July 14	32	140
"From F. & J. Heinz Purveyors to the Trade"	H. J. Heinz	4,089	Dec. 20	33	1502
"Fryer's Abietene, an Extract from the Pinus Sabiniana"	D. F. Fryer	4,652	Dec. 1	33	1000
"Fry's Great Rheumatic Cure and Blood Purifier"	G. W. Fry	4,590	Oct. 6	33	2
"G. E. M. Powder or the G. E. Mitchell Tooth Powder"	J. E. Mitchell	4,631	Nov. 10	33	926
"Gallagher's Conchas" (for Cigars)	J. Gallagher, Jr.	4,406	Apr. 14	31	124
"Gallagher's Liquid Polish" (for Stoves)	P. Gallagher	4,363	Mar. 17	30	998
"Gates" (a Remedy for Diphtheria)	M. E. Gates	4,540	Aug. 11	32	656
"Gaugers' Tacks"	F. M. Borry	4,470	June 9	31	1174
"General Drawing Ink"	C. M. Higgins	4,690	Dec. 29	33	1502
"General Tonic"	D. B. Hand	4,625	Nov. 10	33	926
"Genuine Concord Wagon Colors"	Jones & Co.	4,358	Feb. 24	30	664
"Genuine Silk Sponge Towel" (for Toweling.)	G. S. Brown	4,618	Nov. 3	33	504
"Geo. H. Hood's Imperial Flesh Color Rubber for Dental Plates."	Boston Rubber Company	4,668	Dec. 15	33	1270
"Geo. H. Hood's Imperial Gum Color Rubber for Dental Plates."	Boston Rubber Company	4,669	Dec. 15	33	1270
"George Vandersalce's Famous Universal Salve"	W. B. Zieber	4,452	May 12	31	666
"German Pile Remedy"	G. H. Jones	4,456	May 19	31	794
"Glass Cutter Combination" (for Combination Tool)	T. J. Andress	4,463	June 2	31	1048

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Title.	Name.	No.	Date.	Official Gazette.	
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"Go-Go Vegetable Soap"	S. Jacobs	4,340	Feb. 10	30	454
"Gold and Silver Medal American Silks"	Cooper & Conard	4,338	Feb. 10	30	454
"Golden's Female Elixir"	S. Steenrod	4,339	Nov. 17	33	762
"Goodatock" (for Shirts, Coats, and Jackets)	W. T. Galt	4,325	Jan. 27	30	264
"Graft's Seamless Shoe"	A. Graft	4,460	May 26	31	920
"Grant's Calisaya and Iron Tonic"	Colburn, Birks & Company	4,640	Nov. 24	33	892
"Granulated Soft Soap"	W. C. Barnard	4,351	Feb. 24	30	664
"Graydon's Fluid Extract of Beef"	Liston Beef Company	4,409	Apr. 14	31	124
"Great Five" (for five cent Cigars)	J. Beltman	4,401	Apr. 7	31	2
"Guesnard's Cuban Flavored Smoking Tobacco"	T. Guesnard	4,395	Mar. 31	30	1210
"Hair Soap"	A. B. Hall and H. C. Bailey	4,339	Feb. 10	30	454
"Hakka Cream"	E. A. Talbot	4,565	Sept. 1	32	1014
"Hall's Ulster Ginger Ale"	H. Hall	4,636	Nov. 17	33	762
"Heinz's" (for Pickles, Preserves and Condiments)	H. J. Heinz	4,688	Dec. 29	33	1502
"Honey Dew Cough Syrup"	H. C. Royer	4,488	June 23	31	1448
"Honey, Rum and Tar" (for a Medicine)	J. H. Alexander	4,621	Nov. 10	33	626
"Hop Sarsaparilla" (for a Medicine)	W. Hiccox & Co.	4,368	Mar. 3	30	778
"Howell's Deck" (for Paint)	C. H. Howell & Co.	4,370	Mar. 3	30	778
"Imperial Olive" (for Laundry Soap)	J. S. Kirk & Co.	4,577	Sept. 22	32	1360
"Imperishable Paste"	C. B. Campbell	4,685	Dec. 29	33	1502
"Improved German Fly Paper"	B. F. B. Willson	4,570	Sept. 8	32	1128
"Improved Lititz Bretzel"	J. M. Kissinger	4,552	Aug. 11	32	656
"India Silk Styles" (for Print Goods)	Eddystone Manufacturing Company	4,495	June 30	31	1564
"Indian Corn Cure"	C. E. Lloyd and S. D. Pillsbury	4,313	Jan. 13	30	102
"Infallible Diarrhea and Teething Medicine"	A. G. Franklin	4,596	Oct. 13	33	118
"Iron Phosphates" (for a Beverage)	C. Beck	4,589	Oct. 6	33	2
"Iverson Mills" (for Spools of Sewing Thread)	Williamian Linen Company	4,337	Feb. 3	30	348
"Ives' Catarrh Cream"	F. Ives	4,447	May 12	31	668
"Jamaica Tonic-Punch" (for a Beverage)	W. C. Dunn	4,322	Jan. 27	30	264
"John H. Rowland's Vegetable Astringent Pills"	J. H. Rowland	4,537	Aug. 4	32	522
"Juniper Leaf Gin"	M. M. Reis	4,660	Dec. 1	33	1000
"Kickapoo Indian Salve"	J. E. Healy and C. Bigelow	4,356	Feb. 24	30	664
"Kino" (for a Tooth Wash)	J. A. Martin	4,637	Nov. 17	33	762
"Knight's Steel and Pennyroyal Pills"	A. P. Knight	4,455	May 19	31	794
"Kuhl's Drawing & Healing Salve"	A. Kuhl	4,349	Feb. 17	30	562
"L. C. Thomas, Pine Tar and Wild Cherry Cough Drops"	L. C. Thomas	4,374	Mar. 3	30	778
"L. Wolff & Co., Copahine"	W. T. Baker	4,566	Sept. 8	32	1128
"Lactate Baking Powder"	Avery Lactate Company	4,469	June 9	31	1174
"Landreth's Extra Early Pens"	O. Landreth	4,312	Jan. 13	30	102
"Landry's French Syrup" (for a Cough Medicine)	J. O. Landry	4,573	Sept. 15	32	1242
"Lautz Brothers and Co's Acme Soap"	Lautz Bros. & Co.	4,350	Feb. 24	30	664
"Lautz Brothers and Co's Acme Soap"	Lautz Bros. & Co.	4,360	Feb. 24	30	664
"Lehigh Laundry Soap"	J. S. Kirk & Co.	4,576	Sept. 22	32	1360
"Liebig's Condensed Mineral Waters"	J. Clarke	4,563	Aug. 25	32	898
"Liniment"	E. B. Bean and T. S. Haight	4,320	Jan. 27	30	264
"Liquid Cathartic"	F. J. Carrall	4,352	Feb. 24	30	664
"Liquid Purifier & Preserver"	J. P. Ober	4,564	Aug. 25	32	898
"Liston's Extract of Beef"	Liston Beef Company	4,408	Apr. 14	31	124
"Liston's Extract of Beef"	Liston Beef Company	4,412	Apr. 14	31	124
"Liston's Extract of Chicken"	Liston Beef Company	4,672	Dec. 15	33	1270
"Lloyd's Colorless Hydrastis"	Lloyd Bros.	4,553	Aug. 11	32	656
"Lockhart's Hot Springs Specific"	R. P. Lockhart	4,415	Apr. 14	31	124
"London and Paris" (for Ready-Made Clothing)	Schloss Bros. & Co.	4,343	Feb. 10	30	454
"London Balm" (for a Medicine)	W. S. Haswell	4,598	Oct. 13	33	118
"London Liniment"	Moellering Medicine Co.	4,420	Apr. 21	31	268
"Luby's Parisian Hair Renewer"	R. J. Devins	4,432	Apr. 28	31	382
"Luce's Celebrated Black Liniment"	Evans & Krimmel	4,595	Oct. 13	33	118
"Madam Gilmore's London Blood Syrup"	J. J. and B. F. Maher	4,592	Oct. 6	33	2
"Madam R. Seve's Ointment"	L. Seve	4,482	June 16	31	1308
"Magnetic Tablets" (for a Medicine)	J. Post	4,638	Nov. 17	33	762
"Malt and Rock, 8 Years Old"	Hegeman & Co.	4,445	May 5	31	522
"Maltoline" (for a Medical Compound)	S. J. Bendiner	4,414	Apr. 14	31	124
"Marble Liniment"	J. Boyle	4,416	Apr. 21	31	268
"Marine Bronze" (for Paint)	C. H. Howell & Co.	4,369	Mar. 3	30	778
"Marine Cement"	C. H. Howell & Co.	4,373	Mar. 3	30	778
"Marine French" (for Paint)	C. H. Howell & Co.	4,372	Mar. 3	30	778
"Marine White" (for Paint)	C. H. Howell & Co.	4,371	Mar. 3	30	778
"Martinez' Lubricator"	A. A. Martinez	4,600	Oct. 13	33	118
"Massey's Concentrated Essence of Coca and Pepsin"	Caswell, Massey & Co.	4,465	June 2	31	1048
"Mathis' Family Liniment"	C. B. Mathis	4,314	Jan. 13	30	102
"Mattson's Improved Irrigator Fountain Syringe"	Mattson Rubber Company	4,419	Apr. 21	31	268
"Max Braun's Tape Metronome (Mazal's Time)"	M. Braun	4,431	Apr. 28	31	382
"McArthur's Magical Mixture" (for a Medical Compound)	J. N. Gilbert and G. McArthur	4,434	Apr. 28	31	382
"Medical Lake" (for Mineral Water)	Wolf & Monahan	4,318	Jan. 20	30	182
"Medical Lake Ginger Ale"	Wolf & Monahan	4,319	Jan. 20	30	182
"Mercer Co Kentucky Pure Small Grain Bourbon"	Strauss, Pritz & Co.	4,345	Feb. 10	30	454
"Milwaukee" (for Cigars)	A. Steffen	4,457	May 19	31	794
"Morris' Cascarine" (for a Medicine)	Iler & Morris	4,503	July 14	32	140
"Mrs. Allen's Instantaneous Cough Remedy"	H. J. Allen	4,476	June 16	31	1308
"Mrs. W. W. Hadley's Indian Preparation"	W. W. Hadley	4,347	Feb. 17	30	562
"Myrrh Tooth Soap"	F. T. Phillips	4,422	Apr. 21	31	268
"Natural Mineral Water"	E. O. Gale and W. F. Blocki	4,405	Apr. 7	31	2
"New Meyer" (for Boots and Shoes)	Kunkel & Griffiths	4,341	Feb. 10	30	454
"N. K. Fairbank & Co's Fine Family Soaps"	N. K. Fairbank & Co.	4,453	May 19	31	794
"Novelty Pop Corn Works" (for Pop Corn)	C. A. Andrews	4,320	Mar. 17	30	998
"Nymphs Vegetable Compound" (for a Medicine)	M. Webster	4,539	Aug. 4	32	522
"Old Burley Cigarettes"	S. Busnitz & Co.	4,607	Oct. 13	33	118
"Old Fashion Bourbon" (for Whisky)	Gels & Co.	4,571	Sept. 15	32	1242
"One Dollar" (for Change Envelopes)	S. Raynor & Co.	4,587	Sept. 29	32	1470
"Orange Elixir" (for a Laxative)	Orange Elixir Company	4,342	Feb. 10	30	454
"Our Own" (for Cigars)	H. Frantz and E. C. Stewart	4,324	Jan. 27	30	264
"Our Own" (for Shirts)	Johnson, Sutton & Co.	4,679	Dec. 22	33	1394
"Our Union Soap"	J. S. Kirk & Co.	4,561	Aug. 18	32	778
"Parisian" (for Cachous)	Dabbs Bros	4,663	Dec. 8	33	1142

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"Pear Phosphates" (for a beverage)	Lilly, Rogers & Co.	4,562	Aug. 18	32	775
"Pearl White Tooth Paste"	M. S. Gooding	4,620	Nov. 3	33	501
"Pectoral Muclage" (for a Medicine)	J. Harvey	4,386	Mar. 31	30	1210
"Peet's Lithocolia"	W. J. Peet	4,448	May 12	31	668
"Penetrating Oil" (for a Remedy for Rheumatism)	T. L. Macklin	4,630	Nov. 10	33	626
"Peptonic Emulsion"	J. Schweitzer	4,437	Apr. 28	31	382
"Peptonized Emulsion"	J. Schweitzer	4,438	Apr. 28	31	382
"Peptonized Soda Mint" (for Dyspepsia, &c)	Ryer & Berlian	4,462	May 26	31	920
"Perfection" (for Playing Cards)	Perfection Card Company	4,317	Jan. 20	30	182
"Perfumed Corset" (for Packages Containing Corsets)	Heilner & Strauss	4,654	Dec. 1	33	1000
"Permanent Argentic Bromide Paper"	Eastman Dry Plate and Film Company.	4,675	Dec. 22	33	1394
"Permanent Bromide Paper"	Eastman Dry Plate and Film Company.	4,687	Dec. 22	33	1502
"Permanent Gelatino-Argentic Bromide Paper"	Eastman Dry Plate and Film Company.	4,676	Dec. 22	33	1394
"Permanent Gelatino Bromide Paper"	Eastman Dry Plate and Film Company.	4,677	Dec. 22	33	1394
"Peruvian Bark Tonic Bitters"	A. G. Schmidt	4,335	Feb. 3	30	348
"Philadelphia Lemonade"	S. Twitchell & Bro.	4,603	Oct. 13	33	118
"Philadelphia Lemonade Extract"	S. Twitchell & Bro.	4,604	Oct. 13	33	118
"Phinney's Camphor Ice"	H. F. Phinney	4,326	Jan. 27	30	264
"Phosacid, a Nerve Tonic and Stimulant"	M. Kalbfleisch's Sons	4,670	Dec. 15	33	1270
"Pichereau's Universal Salve"	A. Pichereau	4,632	Nov. 10	33	626
"Pine Pectoral" (for a Medical Compound)	Fraxine Manufacturing Company	4,664	Dec. 8	33	1142
"Pleasant Physic"	D. B. Hand	4,628	Nov. 10	33	626
"Porter's Silver Polish"	A. Porter	4,430	Apr. 21	31	268
"Post Boy" (for a laundry soap)	J. S. Kirk & Co.	4,555	Aug. 18	32	778
"Potatoe Juice Toilet Soap"	Clifford & Co.	4,572	Sept. 15	32	1242
"Prepared Invisible Patches"	W. Foster	4,651	Dec. 1	33	1000
"Prof. Graydon's Fluid Extract of Beef"	Liston Beef Company	4,410	Apr. 14	31	124
"Prof. Graydon's Pure Fluid Extract of Beef"	Liston Beef Company	4,413	Apr. 14	31	124
"Prof. Liston's Extract of Beef"	Liston Beef Company	4,411	Apr. 14	31	124
"Prof. Liston's Fluid Extract of Beef"	Liston Beef Company	4,671	Dec. 15	33	1270
"Quinine Chocolates"	Caswell, Massey & Co.	4,473	June 9	31	1174
"R. & M. Tonic Confection"	Reinhold & Marsh	4,402	Apr. 7	31	2
"Revenue" (for laundry Soap)	J. S. Kirk & Co.	4,560	Aug. 18	32	778
"Rex Marinus" (for a Medicine for Cure of Sea Sickness)	H. L. Moody	4,461	May 26	31	920
"Rice and Rye" (for a Preparation of Extract of Rice with Rye Whisky.)	E. Greey	4,591	Oct. 6	33	2
"Rice's No Rubbing Washing Fluid"	W. A. Rice	4,387	Mar. 17	30	998
"Ridgewood Re-Distilling Cos. D. D. Rye Gin"	Ridgewood Re-Distilling Company	4,692	Dec. 20	33	1502
"Roderic's Wild Cherry Cough Balsam"	C. S. Foss	4,329	Feb. 3	30	348
"Roll-Holder" (for a Holder for Photographic Films)	Eastman Dry Plate and Film Company.	4,479	June 16	31	1308
"Royer's German Specific"	H. C. Royer	4,490	June 23	31	1448
"S. A. C. Shaw's Asthma Cure"	J. C. Shaw	4,661	Dec. 1	33	1000
"S. L. Tucker's Rheumatic X Liniment"	S. L. Tucker	4,392	Mar. 24	30	1098
"Sabo Paracene" (for Soap)	Brewster, Rutherford & Co.	4,493	June 30	31	1564
"Safe Prolonger of Life" (for a Medicine)	J. Bard	4,491	June 30	31	1564
"Save your Horse and Save your Money." (for Horse Medicine.)	M. W. Wilson	4,439	Apr. 22	31	382
"Sawyer's Sick Headache Powders"	A. Sawyer	4,334	Feb. 3	30	348
"Scented Corset" (for Packages Containing Corsets)	Heilner & Strauss	4,653	Dec. 1	33	1000
"School Sewing Box"	L. J. Kirkwood	4,397	Mar. 31	30	1210
"Scott & Firth's Tonic and Kidney Cure"	Scott & Firth	4,602	Oct. 13	33	118
"Seidlitz Powders"	Gillam's Sons	4,623	Nov. 10	33	626
"Shag Cigarettes"	S. Busnitz & Co.	4,608	Oct. 13	33	118
"Silk Silver Towel." (for Toweling.)	G. S. Brown	4,617	Nov. 3	33	504
"Silver Steel" (for Axes, Hatchets, and similar Edge-Tools)	W. H. Crossman & Bro.	4,353	Feb. 24	30	664
"Simon's Black." (for Harness, Carriages, &c)	E. S. Savigny	4,593	Oct. 6	33	2
"Smith's German Pile Cure"	E. G. Smith & Son	4,444	May 5	31	522
"Smith's Vegetable Tonic"	E. G. Smith & Son	4,580	Sept. 22	32	1360
"Sol. Coleman's Ko-Ko Tulu" (for Chewing Gum)	S. Coleman	4,650	Dec. 1	33	1000
"Sol. Coleman's Original and only Genuine Ko-Ko Tulu"	S. Coleman	4,610	Oct. 20	33	240
"Sol. Coleman's Original and only Genuine Ko-Ko Tulu"	S. Coleman	4,611	Oct. 20	33	240
"South American Pile Cure"	J. Dougherty	4,354	Feb. 24	30	664
"Sparkling Banana Liqueur"	W. H. Usher	4,522	Sept. 22	32	1360
"Sparkling Phosa" (for a Beverage)	Rumford Chemical Works	4,391	Mar. 24	30	1098
"Spencer's Cooling Remedy." (for Burning or Sweating Feet)	E. W. Spencer	4,315	Jan. 13	30	102
"Standard Quality" (for Cotton Goods)	Rhode Island Lining Manufacturing Company.	4,385	Mar. 17	30	998
"Stower's Lime Juice Cordial"	R. H. Pugh	4,536	Aug. 4	32	522
"Strassburger Gicht & Rheumatismus Pflaster"	Pfäelzer Bros. & Co.	4,614	Oct. 27	33	360
"Suetor's Health Pills"	H. Fisher	4,433	Apr. 26	31	3-2
"Sweet Smelling Corset" (for Packages Containing Corsets)	Heilner & Strauss	4,657	Dec. 1	33	1000
"T. J. Armstrong's Diphtheria & Quinsy Drops"	T. J. Armstrong	4,499	July 14	32	140
"Tasteless Vegetable Pills"	I. Bidaman	4,427	Apr. 21	31	268
"Taylor's Horehound Balsam"	W. S. Taylor	4,615	Oct. 27	33	360
"Teething Lotion"	D. B. Hand	4,629	Nov. 10	33	626
"The American Shoe Polish"	J. F. McGee, A. H. W. Clum, and L. C. Walsh.	4,475	June 9	31	1174
"The Atkinson Dress Shirt"	H. Mayer & Co.	4,306	Jan. 6	30	2
"The B X Swift" (for Edge Tools, &c)	Collins Company	4,510	July 21	32	260
"The B v Wise" (for Edge Tools, &c)	Collins Company	4,518	July 21	32	260
"The 'Best' Stove Polish"	E. Fisher	4,641	Nov. 24	33	592
"The Boston Brown Bread Mixture"	H. E. Pearson	4,392	Feb. 3	30	348
"The Bracket Disinfectant Holder and Evaporator"	A. H. Kidney	4,398	Mar. 31	30	1210
"The Challenge 'Clipper' (for Edge Tools)	Collins Company	4,519	July 21	32	260
"The Collins 'Clipper' (for Edge Tools, &c)	Collins Company	4,507	July 21	32	260
"The Collins Plover"	Collins Company	4,515	July 21	32	260
"The Collins Spanish Machete"	Collins Company	4,521	July 21	32	260
"The Collins Wrench"	Collins Company	4,517	July 21	32	260
"The Complexion Ointment"	J. Bard	4,327	Feb. 3	30	348

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
				Vol.	Page.
"The English Correct Style Waukenphast".....	Laird, Schober & Mitchell.....	4,308	Jan. 6	30	2
"The F. T. S. Great Indian Cough Killer".....	F. T. Stamets.....	4,662	Dec. 1	33	1000
"The Famous Caraccas Herb-Tonic".....	G. E. Walton.....	4,682	Dec. 22	33	1394
"The Great German Rheumatism Remedy".....	A. A. Woodward.....	4,605	Oct. 13	33	118
"The Greatest Blood Purifier".....	W. H. Whitehead.....	4,633	Nov. 10	33	626
"The Hamburg Compressed Corn Beef Company. (for Compressed Corn Beef.).....	J. H. Schmitt.....	4,344	Feb. 10	30	454
"The Infallible Oriental Cholera Antidote".....	H. Bateman.....	4,492	June 30	31	1564
"The Iowa Shoe".....	Gifford & Douglas.....	4,568	Sept. 8	32	1128
"The L. M. and S. Shirt".....	L. Mange & Son.....	4,538	Aug. 4	32	522
"The Large King" (for Edge Tools, &c).....	Collins Company.....	4,512	July 21	32	260
"The most Reliable Family Medicine".....	P. F. Laplant.....	4,429	Apr. 21	31	268
"The Mexican Rheumatic Cure".....	G. M. Ryder.....	4,504	July 14	32	140
"The Mexican Syphilitic Treatment".....	L. W. Eckels.....	4,328	Feb. 3	30	348
"The New Discovery, Battis' Modified Extract of Denicotized Tobacco".....	J. H. Battis.....	4,622	Nov. 10	33	626
"The New Large Collins Axe".....	Collins Company.....	4,511	July 21	32	260
"The New Small Collins Axe".....	Collins Company.....	4,509	July 21	32	260
"The New Spanish—Large" (for Edge Tools, &c).....	Collins Company.....	4,508	July 21	32	260
"The New Spanish—Small" (for Edge Tools, &c).....	Collins Company.....	4,520	July 21	32	260
"The Old Collins Axe".....	Collins Company.....	4,513	July 21	32	260
"The Old Spanish—Small" (for Edge Tools, &c).....	Collins Company.....	4,514	July 21	32	260
"The Original Kidney Pills".....	Kidney Pill Co.....	4,599	Oct. 13	33	118
"The People's Benefactor or the Great Household Remedy".....	R. Drake.....	4,346	Feb. 17	30	562
"The Positive Catarrh Cure".....	E. Franz.....	4,567	Sept. 8	32	1128
"The Profitable Hog & Chicken Cholera Cure".....	E. Heun.....	4,575	Sept. 22	32	1360
"The Preventive Capsule".....	E. Gutmann.....	4,376	Mar. 10	30	896
"The Preventive Capsule Company's Remedies".....	E. Gutmann.....	4,404	Apr. 7	31	2
"The Prize Linen Tablet".....	C. E. Morrell & Co.....	4,443	May 5	31	522
"The Prize Pencil Tablet".....	C. E. Morrell & Co.....	4,442	May 5	31	522
"The Reece Button-Hole Machine Silk".....	C. Curtis.....	4,310	Jan. 13	30	102
"The Reliable" (for Umbrellas and Parasols).....	U. G. Steinmetz.....	4,581	Sept. 22	32	1360
"The 8 Shilling Coiled Spring Health Preserving Corset".....	Detroit Knitting & Corset Works.....	4,381	Mar. 17	30	998
"The Silk Corded End Brace" (for Suspenders).....	National Suspender Company.....	4,468	June 2	31	1048
"The Small King" (for Cast Steel Tools).....	Collins Company.....	4,516	July 21	32	260
"There's Life in Every Drop," (for Dr. Petzold's Genuine German Bitters.).....	L. Petzold & Co.....	4,534	July 28	32	326
"These goods are Manufactured with great care from well-selected Cotton and all the colors are fast." (for Cotton Goods.).....	S. A. Crozer & Son.....	4,686	Dec. 29	33	1502
"Thueringer Export Beer".....	A. H. Meyer.....	4,659	Dec. 1	33	1000
"Tonic Phosphates".....	Hegeman & Co.....	4,435	Apr. 28	31	322
"Tutti Frutti Juice".....	Tarrant & Company.....	4,505	July 14	32	140
"Twenty five Cents" (for Change Envelopes).....	S. Raynor & Co.....	4,585	Sept. 29	32	1470
"Twixt and Tween Purest Quality Smoking Tobacco".....	G. W. Conover.....	4,613	Oct. 27	33	360
"Tyree's Powdered Hypophosphites Compound".....	J. S. Tyree.....	4,666	Dec. 8	33	1142
"United States Film".....	Eastman Dry Plate and Film Company.....	4,481	June 16	31	1308
"Universal Healer" (for a Medicine).....	A. B. Woodward.....	4,483	June 16	31	1308
"Vampire Black" (for a Waterproof Leather Dressing).....	Canton Paint and Oil Company.....	4,497	July 7	32	2
"Warner's White Wine of Tar Syrup".....	C. D. Warner.....	4,316	Jan. 13	30	102
"Westport Mills." (for Writing Paper).....	Beebe Holbrook Company.....	4,393	Mar. 31	30	1210
"Westport Mills." (for Writing Paper).....	I. N. Megargee.....	4,403	Apr. 7	31	2
"White Bronze" (for Burial Caskets, &c).....	D. D. Dunklee.....	4,323	Jan. 27	30	264
"White Russian Soap".....	J. S. Kirk & Co.....	4,556	Aug. 18	32	778
"Windham Thread".....	Willimantic Linen Company.....	4,336	Feb. 3	30	348
"Worm Elixir".....	D. B. Hand.....	4,626	Nov. 10	33	626
"Wylie's Rheumatic Oil".....	G. H. Charland.....	4,458	May 26	31	920

DISCLAIMERS.

Invention.	Patentee.	No. of patent.	Date of patent.	Disclaimer filed.	Official Gazette.	
					Vol.	Page.
Car-coupling.....	Samuel B. Archer.....	283,845	Aug. 28, 1883	Nov. 11, 1885	33	762
Chimney and ventilator. Combined.....	Allen S. Jackson.....	303,288	Aug. 12, 1884	Dec. 17, 1885	33	1394
Erasor. India-rubber.....	Rhodes Lockwood.....	167,455	Sept. 7, 1875	Mar. 27, 1885	31	2
Fertilizer-distributor.....	Joseph B. Denton.....	314,920	Mar. 31, 1885	Apr. 16, 1885	31	268
Flooring. Hollow tile.....	Balthasar Kreischer. (Reissue).....	5,174	Dec. 3, 1872	Mar. 13, 1885	30	998
Glassware.....	Joseph Locke.....	282,002	July 24, 1883	Aug. 29, 1885	32	1128
Log-turning machine.....	Esau Taprant. (Reissue).....	5,487	July 15, 1873	June 3, 1885	31	1174
Oatmeal-machine.....	Asmus J. Ehrlichson. (Reissue).....	7,542	Nov. 30, 1875	Oct. 12, 1885	33	240
Scoop.....	Thomas B. Davis. (Reissue).....	10,226	Oct. 31, 1882	Jan. 2, 1885	30	102
Shaft-hanger.....	Willis J. Perkins.....	311,780	Feb. 3, 1885	Oct. 13, 1885	33	460
Steam-heater.....	William B. Dunning.....	10,391	Oct. 3, 1883	Mar. 23, 1885	30	1210
Telegraph apparatus. Duplex.....	Joseph B. Stearns. (Reissue).....	10,033	Feb. 7, 1882	Oct. 22, 1885	33	460
Telegraph apparatus. Duplex.....	Joseph B. Stearns. (Reissue).....	10,034	Feb. 7, 1882	Oct. 22, 1885	33	460
Telegraph apparatus. Duplex.....	Joseph B. Stearns. (Reissue).....	10,035	Feb. 7, 1882	Oct. 22, 1885	33	460
Trunk.....	Charles A. Taylor.....	128,925	July 3, 1872	Mar. 7, 1885	30	998

